ACOS 6.0.7

aXAPIv3 Reference Document

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CHAPTER

ONE

OVERVIEW:

1.1 Start Here

The aXAPI version 3.0 offers an HTTP interface that can be used to configure and monitor your ACOS device. The end-user can use the following HTTP methods to operate the AXAPI:

1. POST
2. GET
3. PUT
4. DELETE

Details about the usage of the above HTTP methods are covered in the *Operations* section.

In general, the API user will perform the following sequence of steps:

1. Log in: Request an authorization signature. See *Logging On* for details.
2. Use HTTP methods (POST, GET, etc), along with the authorization signature retrieved in Step 1, to configure or monitor the ACOS device. See *Making an API call* for details.
3. Log off: Inform the API that authorization is no longer needed for the signature retrieved in Step 1. See *Logging Off* for details.

Note: aXAPIv3 operates over HTTPS

1.1.1 Logging On

This step is required to retrieve an authorization signature to be used to authenticate API calls. This is achieved by sending a POST request to the URI `/axapi/v3/auth` using using the credentials for the ACOS device, by inserting the following JSON payload:

```
curl -k https://10.100.5.71/axapi/v3/auth \
-H "Content-Type:application/json" \
-d '{
    "credentials": {
        "username": "admin",
        "password": "a10"
    }
}'
```

This example uses the default username (“admin”) and default password (“a10”) for the ACOS device.

If the credentials are valid, the API will return a JSON response like the one below:

```
{
  "authresponse" : {
  "signature":"ea697a2bc0eb6ec9a1ec7723a3c9b0",
  "description":"the signature should be set in Authorization header for following␣
↪request."
   }
}
```

The value of the signature attribute (ea697a2bc0eb6ec9a1ec7723a3c9b0, in this example) should be used for future aXAPI operations within an HTTP Authorization header, which will be discussed later.

1.1.2 Making an API call

As mentioned earlier, the end-user interacts with the aXAPI using the HTTP methods listed in the *Operations* section. The end-user is required to use an HTTP Header named `Authorization` with a value equal to `A10 <signature>`, where signature is the authorization signature obtained during the *Logging On* stage.

Each object is identified by a URI.

For instance, in order to create an SLB virtual server, we would make the following POST request on the object’s URI `/axapi/v3/slb/virtual-server`:

```
curl -k POST https://10.100.5.71/axapi/v3/slb/virtual-server \
-H "Content-Type:application/json" \
-H "Authorization: A10 ea697a2bc0eb6ec9a1ec7723a3c9b0" \
-d '{
        "virtual-server": {
                "name": "a",
                "ip-address": "4.4.4.4",
                "enable-disable-action": "enable",
                "redistribution-flagged": 0,
                "arp-disable": 0,
                "policy": 0,
                "virtual-server": 0,
                "logging": 0,
                "stats-data-action": "stats-data-enable",
                "extended-stats": 0,
                "port-list": [
                        {
                                "port-number": 0,
                                "protocol": "tcp",
                                "range": 0,
                                "conn-limit": 8000000,
                                "reset": 0,
                                "no-logging": 0,
                                "use-alternate-port": 0,
                                "action": "enable",
                                "def-selection-if-pref-failed": "def-selection-if-pref-
↪failed",
                                "ha-conn-mirror": 0,
```

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```
                                "skip-rev-hash": 0,
                                "message-switching": 0,
                                "force-routing-mode": 0,
                                "reset-on-server-selection-fail": 0,
                                "clientip-sticky-nat": 0,
                                "extended-stats": 0,
                                "snat-on-vip": 0,
                                "stats-data-action": "stats-data-enable",
                                "syn-cookie": 0,
                                "no-auto-up-on-aflex": 0,
                                "no-dest-nat": 0,
                                "enable-scaleout": 0,
                                "auto": 0,
                                "ipinip": 0,
                                "use-rcv-hop-for-resp": 0,
                                "template-tcp": "default",
                                "template-virtual-port": "default",
                                "use-default-if-no-server": 0,
                                "a10-url": "https://100.31.1.101/axapi/v3/slb/virtual-
↪server/a/port/0+tcp"
                        }
                ]
        }
}'
```

1.1.3 Logging Off

This step is required to indicate to the ACOS device that all aXAPI operations have been completed for the current authorized session. This is achieved by sending a POST request to the URI `/axapi/v3/logoff` along with the authorization header and content-type header discussed in the *Making an API call* section.

1.1.4 Contents

How to Use this Reference

This reference contains an entry for each ACOS object that can be accessed via the aXAPIv3. Each entry has the following sections:

Specification Table
: Provides basic information about the object, such as what type of object it is.

Operations Allowed
: Lists the operations that can be performed on instances of this object, along with the HTTP method and URI template required to perform each operation.

Children
: Provides information about children objects of this object.

Stats Data
: Lists the statistics available for this object.

Operational Data
: Lists the statistics available for this object.

Attributes
Lists all attributes that can be retrieved or configured via the object's allowed operations.

Specification Table

The specification table provides the following information about the resource:

URI
The URI template that can be used to access a representation of instances of this object. The template format is the same as that defined in RFC 6570.

Type
Indicates what type of resource it is. For further information about resource types, see *Resources*.

Object Key(s)
The object key is the unique identifier for each instance of this object. It is typically either the name or ID of the object. It is used to identify the resource in the JSON schema. You cannot change the value associated with a resource's object key. You must instead create a new resource with a different value for the object key.

Resource Name
This is the name of the object, not the instance of that object. It is used to identify the object in the ACOS device's schema, in URI calls, and throughout the reference entry for this object.

List of Resources
If the object is a *list* type object (see *Resources* for details), this is the resource name that will be used to access the list of all configured instances of this object.

Schema
You can click this link to see the JSON schema for this object. The schema includes all information about the object. The following key:value pairs are of particular importance:

- id - contains the URI template of the object
- properties - contains all of the accessible attributes of the object. These are also listed on the reference page for the object. Each property contains type and/or format of the property, its minimum and maximum values or length, a description and whether it is optional or required.
- object-keys - contains the object key, as described above
- required - lists all properties of this object which are required when configuring the object via the aXAPI.

Operations Allowed

The operations table lists all supported operations for instances of this object. For each operation, it lists the HTTP method and URI template that are used to execute the operation.

The payload makes it clear whether the JSON payload contains the list of this type of object or the attributes of an individual instance of the object.

For information about aXAPIv3 operations, see *Operations*.

Children

This table lists the children of the current resource. It also lists the type and endpoint URI of each child object. Click on the object's name to see its reference entry.

Stats Data

This table lists all counters available for the object. Each row displays the name of the object in the JSON schema. The table also displays the size of the counter and a brief description of what it represents.

There may be additional statistics tables, depending on how many different categories of statistics are allowed for this resource.

Operational Data

This table lists any operational data attributes by name, and describes what they represent. Many objects will contain the "state" attribute, which specifies whether the object is Up or Down.

Some resources may contain session information or current mappings, such as a dynamically assigned IP or MAC address.

Attributes

This section describes each of the objects accessible attributes. In the JSON payload, the name of the attribute will be the key, and the value will either be the value you specify (POST or PUT methods) or the value currently configured on this object on the ACOS device (GET method)

Each listing will provide information about the attribute:

Description
: Describes the ACOS configuration feature that this attribute represents.

Supported Values
: Lists the supported values for boolean attributes.

Range
: Specifies the range of accepted integers for number attributes.

Default
: Describes the default configuration this attribute that will remain in effect unless it is directly configured.

Dependency
: Specifies whether there are any other parameters that are required before this parameter can be configured.

Mutual Exclusion
: Indicates other attributes that cannot be configured if this attribute is configured.

Mandatory
: Indicates whether or not this attribute is mandatory to configuring the object on the ACOS device.

Reference Object
: Includes a link to an object that must be configured before this parameter can be applied or included.

Type
: States what type of value the attribute requires. The following table shows the supported field types.

Type	Description
dummy	Used for fields that have no configuration significance but act as a place-holder (or intermediate node).
encrypted	Goes hand in hand with the password type. A password field must come before an encrypted-type field. You cannot configure this field, this is only to get the encrypted value of the password.
enum	Used as a variation of string. The accepted value can only be one of the values listed for that field. If three values are listed (such as Full, Half, auto) only one can be used: `"duplexity":"Full"`
enum-list	Used like enum, but an enum-list can accept multiple enumerated values, separated by a comma. If three values are listed (such as axapi, cli, web) all can be used simultaneously: `"access-type":"axapi,cli,web"`
flag	Accepts a boolean. By default, the value of 0 is assumed for the flag. To enable the attribute or property, you need to specify the the keyword along with the value of 0 or 1: `"use-if-ip":1` or `"use-if-ip":true`
interface	Accepts interfaces referring to the physical ports. It automatically builds the range of ports allowed: `"ethernet-start":1, "ethernet-end":3`
ipv4-address	Accepts the ipv4 address. The format is A.B.C.D: `"ip-address":"10.1.1.1"`
ipv4-cidr	Accepts both the IP address and the prefix length in the same field: `"ipv4addr":"10.1.1.0/24"`
ipv4-netmask	Accepts the network mask for the ipv4 network. The format is A.B.C.D or /nn: `"ipv4-netmask":"255.255.255.0"`
ipv4-netmask-brief	Same as ipv4-netmask
ipv4-rev-netmask	Same as ipv4-netmask except that it accepts the reverse mask: `0.0.0.255`
ipv6-address	Accepts the ipv6 address. The format is A:B:C:D:E:F:G:H: `"ipv6-address":"2334:1234:1234::1"`
ipv6-address-plen	Accepts the ipv6 address along with the prefix length: `"address":"2334:1234:1234::1/64"`
line	Treated just like a string in aXAPI: `"description":"This is a line long description"`
mac-address	Accepts the mac address. The format is aabb.ccdd.eeff: `"mac-addr":"2323.2323.3434"`
nasp-string	Accepts the Network Service Access Point address or Network Entity Title. The format is XX.XXXX. . . . .XXXX.XX.
number	Accepts a basic number: `"mtu":1500`
password	Accepts variety of characters that can be used in a password. The password field should always be followed by another field of type encrypted, so as not to store or display the values entered: `"passphrase":"asdbasfsdf"`
string	Accepts a sequence of characters: `"name":"acl1"`
string-rlx	Used as a variation of string type. The difference is that it accepts extra characters such as spaces, which are not allowed in basic string type: `"name":"abc def"`

Resources

The following types of resources can be accessed and configured using aXAPIv3.

Elements

An element is a specific instance of a configurable object on the ACOS device. You can typically configure more than one of each type of element on the ACOS device. All elements exist within collections.

Example

A configured virtual port on the ACOS device is an element.

URI: /axapi/v3/slb/virtual-server/{name}/port/{port-number}+{protocol}

The following example shows retrieving a configured virtual port **80+tcp** on the SLB virtual server named **vs1**:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/virtual-server/vs1/port/80+tcp \
-H "Content-Type:application/json" \
-H "Authorization: A10 ae894d193ab92f8e1f9243296efe39"
```

If the request succeeds, the following response will be received:


```
{
        "port": {
                "port-number": 80,
                "protocol": "tcp",
                "range": 0,
                "conn-limit": 8000000,
                "reset": 0,
                "no-logging": 0,
                "use-alternate-port": 0,
                "action": "enable",
                "def-selection-if-pref-failed": "def-selection-if-pref-failed",
                "ha-conn-mirror": 0,
                "skip-rev-hash": 0,
                "message-switching": 0,
                "force-routing-mode": 0,
                "reset-on-server-selection-fail": 0,
                "clientip-sticky-nat": 0,
                "extended-stats": 0,
                "snat-on-vip": 0,
                "stats-data-action": "stats-data-enable",
                "syn-cookie": 0,
                "no-auto-up-on-aflex": 0,
                "scaleout-bucket-count": 32,
                "auto": 0,
                "ipinip": 0,
                "rtp-sip-call-id-match": 0,
                "use-rcv-hop-for-resp": 0,
                "template-tcp": "default",
                "template-virtual-port": "default",
                "use-default-if-no-server": 0,
```


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```
                "no-dest-nat": 0,
                "uuid": "fbb05d0a-4f10-11e5-ade5-79d397dc1ac7",
                "sampling-enable": [{
                        "counters1": "curr_conn"
                }, {
                        "counters1": "slowest_rsp_time"
                }, {
                        "counters1": "total_dns_pkts"
                }, {
                        "counters1": "total_ssl_conn"
                }]
        }
}
```

Collections

A collection is a set of a particular type of element. Whenever a new element of that type is created, it is added to the collection.

You can configure individual elements separately, or you can create or modify multiple elements at once by creating or replacing the collection in which they are contained.

New elements are created through the collection resource URI.

Example

The list of all virtual ports on a particular virtual server.

URI: /axapi/v3/slb/virtual-server/{name}/port/

The following example shows retrieving a list of configured virtual ports on the virtual server named **vs1**:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/virtual-server/vs1/port \
-H "Content-Type:application/json" \
-H "Authorization: A10 ae894d193ab92f8e1f9243296efe39"
```

If the request succeeds, the following response will be received:

```
{
        "port-list": [{
                "port-number": 80,
                "protocol": "tcp",
                "range": 0,
                "conn-limit": 8000000,
                "reset": 0,
                "no-logging": 0,
                "use-alternate-port": 0,
                "action": "enable",
                "def-selection-if-pref-failed": "def-selection-if-pref-failed",
                "ha-conn-mirror": 0,
                "skip-rev-hash": 0,
                "message-switching": 0,
```

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```
                "force-routing-mode": 0,
                "reset-on-server-selection-fail": 0,
                "clientip-sticky-nat": 0,
                "extended-stats": 0,
                "snat-on-vip": 0,
                "stats-data-action": "stats-data-enable",
                "syn-cookie": 0,
                "no-auto-up-on-aflex": 0,
                "scaleout-bucket-count": 32,
                "auto": 0,
                "ipinip": 0,
                "rtp-sip-call-id-match": 0,
                "use-rcv-hop-for-resp": 0,
                "template-tcp": "default",
                "template-virtual-port": "default",
                "use-default-if-no-server": 0,
                "no-dest-nat": 0,
                "uuid": "fbb05d0a-4f10-11e5-ade5-79d397dc1ac7",
                "sampling-enable": [{
                        "counters1": "curr_conn"
                }, {
                        "counters1": "slowest_rsp_time"
                }, {
                        "counters1": "total_dns_pkts"
                }, {
                        "counters1": "total_ssl_conn"
                }],
                "a10-url": "/axapi/v3/slb/virtual-server/vs1/port/80+tcp"
        },
        {
                "port-number": 81,
                "protocol": "tcp",
                "range": 0,
                "conn-limit": 8000000,
                "reset": 0,
                "no-logging": 0,
                "use-alternate-port": 0,
                "action": "enable",
                "def-selection-if-pref-failed": "def-selection-if-pref-failed",
                "ha-conn-mirror": 0,
                "skip-rev-hash": 0,
                "message-switching": 0,
                "force-routing-mode": 0,
                "reset-on-server-selection-fail": 0,
                "clientip-sticky-nat": 0,
                "extended-stats": 0,
                "snat-on-vip": 0,
                "stats-data-action": "stats-data-enable",
                "syn-cookie": 0,
                "no-auto-up-on-aflex": 0,
                "scaleout-bucket-count": 32,
                "auto": 0,
```


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```
                "ipinip": 0,
                "rtp-sip-call-id-match": 0,
                "use-rcv-hop-for-resp": 0,
                "template-tcp": "default",
                "template-virtual-port": "default",
                "use-default-if-no-server": 0,
                "no-dest-nat": 0,
                "uuid": "fbb05d0a-4f10-11e5-ade5-79d397dc1ac7",
                "sampling-enable": [{
                        "counters1": "curr_conn"
                }, {
                        "counters1": "slowest_rsp_time"
                }, {
                        "counters1": "total_dns_pkts"
                }, {
                        "counters1": "total_ssl_conn"
                }],
                "a10-url": "/axapi/v3/slb/virtual-server/vs1/port/80+tcp"
        }]
}
```


Intermediate Resources

An intermediate resource contains representations of all elements and collections contained within it, but does not have any configurable parameters of its own.

Example

The SLB resource, which would include all SLB configurations on the ACOS device, including its real and virtual ports and servers.

URI: /axapi/v3/slb/

The following example shows the global SLB settings:

```
curl -k GET https://10.10.10.10/axapi/v3/slb \
-H "Content-Type:application/json" \
-H "Authorization: A10 ae894d193ab92f8e1f9243296efe39"
```

See *View Entire SLB Configuration* for response.

Configuration Resources

A configuration object is used to configure settings of a particular feature on the ACOS device. Unlike elements, which exist in collections, there is only one of each type of configuration object. If you do not explicitly configure parameters for a configuration object, then the default values for those parameters will apply.

Example

The global SLB settings, which include time-outs and resource usage.

URI: /axapi/v3/slb/common/

The following example shows the global slb settings:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/common \
-H "Content-Type:application/json" \
-H "Authorization: A10 ae894d193ab92f8e1f9243296efe39"
```

If the request succeeds, the following response will be received:


```
{
        "common": {
                "extended-stats": 0,
                "stats-data-disable": 0,
                "graceful-shutdown-enable": 0,
                "rate-limit-logging": 0,
                "dsr-health-check-enable": 0,
                "reset-stale-session": 0,
                "dns-cache-enable": 0,
                "dns-cache-age": 300,
                "dns-cache-entry-size": 256,
                "dns-vip-stateless": 0,
                "buff-thresh": 0,
                "max-buff-queued-per-conn": 1000,
                "gateway-health-check": 0,
                "msl-time": 2,
                "fast-path-disable": 0,
                "l2l3-trunk-lb-disable": 0,
                "snat-gwy-for-l3": 0,
                "disable-server-auto-reselect": 0,
                "enable-l7-req-acct": 0,
                "disable-adaptive-resource-check": 0,
                "snat-on-vip": 0,
                "mss-table": 536,
                "no-auto-up-on-aflex": 0,
                "hw-compression": 0,
                "max-http-header-count": 90,
                "scale-out": 1,
                "sort-res": 0,
                "use-mss-tab": 0,
                "drop-icmp-to-vip-when-vip-down": 0,
                "uuid": "8efc8170-5dc0-11e5-9e23-c3d12b0485c7"
        }
}
```

Statistics Data Resources

A statistics data resource can be used to retrieve statistics of a particular element or collection. Not all elements and collections will have statistics data.

Example

The statistics data for a particular virtual port will return statistics about traffic on that port.

URI: /axapi/v3/slb/virtual-server/{name}/port/{port-number}+{protocol}/stats

The following example shows retrieving statistics for a configured virtual port **80+tcp** on the SLB virtual server named **vs1**:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/virtual-server/vs1/port/80+tcp/stats \
-H "Content-Type:application/json" \
-H "Authorization: A10 ae894d193ab92f8e1f9243296efe39"
```

If the request succeeds, the following response will be received:


```
        {
        "port": {
                "stats": {
                        "curr_conn": 0,
                        "total_l4_conn": 0,
                        "total_l7_conn": 0,
                        "total_tcp_conn": 0,
                        "total_conn": 0,
                        "total_fwd_bytes": 0,
                        "total_fwd_pkts": 0,
                        "total_rev_bytes": 0,
                        "total_rev_pkts": 0,
                        "total_dns_pkts": 0,
                        "total_mf_dns_pkts": 0,
                        "es_total_failure_actions": 0,
                        "compression_bytes_before": 0,
                        "compression_bytes_after": 0,
                        "compression_hit": 0,
                        "compression_miss": 0,
                        "compression_miss_no_client": 0,
                        "compression_miss_template_exclusion": 0,
                        "curr_req": 0,
                        "total_req": 0,
                        "total_req_succ": 0,
                        "peak_conn": 0,
                        "curr_conn_rate": 0,
                        "last_rsp_time": 0,
                        "fastest_rsp_time": 0,
                        "slowest_rsp_time": 0,
                        "loc_permit": 0,
                        "loc_deny": 0,
                        "loc_conn": 0,
                        "curr_ssl_conn": 0,
```


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```
                        "total_ssl_conn": 0
                },
                "a10-url": "/axapi/v3/slb/virtual-server/vs1/port/80+tcp/stats",
                "port-number": 80,
                "protocol": "tcp"
        }
}
```

Operational Data Resources

An operational data resource can be used to retrieve information about the operational status of a particular element or collection. Not all elements and collections have an operational status. Some elements will have an up/down status that cannot be altered. However, other statuses might include dynamic sessions which can be reset.

Example

The operational data resource for a virtual port will return information about whether the port is up or down.

URI: /axapi/v3/slb/virtual-server/{name}/port/{port-number}+{protocol}/oper

The following example shows retrieving operational data for a configured virtual port **80+tcp** on the SLB virtual server named **vs1**:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/virtual-server/vs1/port/80+tcp/oper \
-H "Content-Type:application/json" \
-H "Authorization: A10 ae894d193ab92f8e1f9243296efe39"
```

If the request succeeds, the following response will be received:

```
{
        "port": {
                "oper": {
                        "state": "Down",
                        "loc_list": "",
                        "geo_location": "",
                        "level_str": "",
                        "group_id": 0,
                        "loc_max_depth": 0,
                        "loc_success": 0,
                        "loc_error": 0,
                        "loc_override": 0,
                        "loc_last": ""
                },
                "a10-url": "/axapi/v3/slb/virtual-server/vs1/port/80+tcp/oper",
                "port-number": 80,
                "protocol": "tcp"
        }
}
```

Baseline Data Resources

Not all elements and collections will have baseline data resources. A baseline data resource can be used to retrieve the minimum, maximum, and average value for each enabled counter over the last 30 seconds. Counters will vary per object, and can be used to help troubleshoot or improve performance. To view baseline information, first use the `sampling-enable` property for the object of interest and choose from the available counters. Note that only the counters used in the `sampling-enable` property are listed in the GET response.

Example

After using the `sampling-enable` property to select counters such as current connections, total DNS packets, total SSL connections, and slowest response time, then the baseline data resource can be used to retrieve the data.

URI: /axapi/v3/slb/virtual-server/{name}/port/{port-number}+{protocol}/baseline

The following example shows how to update the existing SLB virtual server named **vs1** to use the `sampling-enable` parameter on port 80 tcp:

```
curl -k PUT https://10.10.10.10/axapi/v3/slb/virtual-server/vs1/port \
-H "Content-Type:application/json" \
-H "Authorization: A10 ae894d193ab92f8e1f9243296efe39"
-d '{
        "port": {
                "port-number": 80,
                "protocol": "tcp",
                "sampling-enable": [{
                        "counters1": "curr_conn"
                }, {
                        "counters1": "slowest_rsp_time"
                }, {
                        "counters1": "total_dns_pkts"
                }, {
                        "counters1": "total_ssl_conn"
                }]
        }
}'
```

The following example shows retrieving the baseline data for the enabled counters:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/virtual-server/vs1/port/80+tcp/baseline \
-H "Content-Type:application/json" \
-H "Authorization: A10 ae894d193ab92f8e1f9243296efe39"
```

If the request succeeds, the following response will be received:

```
{
        "port": {
                "baseline": [{
                        "counter_name": "curr_conn",
                        "min": 0,
                        "max": 0,
                        "avg": 0
                }, {
```

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```
                        "counter_name": "total_dns_pkts",
                        "min": 0,
                        "max": 0,
                        "avg": 0
                }, {
                        "counter_name": "slowest_rsp_time",
                        "min": 0,
                        "max": 0,
                        "avg": 0
                }, {
                        "counter_name": "total_ssl_conn",
                        "min": 0,
                        "max": 0,
                        "avg": 0
                }],
                "a10-url": "/axapi/v3/slb/virtual-server/vs1/port/80+tcp/baseline",
                "port-number": 80,
                "protocol": "tcp"
        }
}
```


Rate Data Resources

Not all elements and collections will have rate data resources. A rate data resource can be used to retrieve the average value of each counter over the following intervals:

- last second
- last 5 seconds
- last 10 seconds
- last 30 seconds

Counters will vary per object, and can be used to help troubleshoot or improve performance. To view rate information, first use the `sampling-enable` property for the object of interest and choose from the available counters. Note that only the counters used in the `sampling-enable` property are listed in the GET response.

Example

After using the `sampling-enable` property to select counters such as current connections, total DNS packets, total SSL connections, and slowest response time, then the rate data resource can be used to retrieve the data. See *Baseline Data Resources* for the sampling-enable example.

URI: /axapi/v3/slb/virtual-server/{name}/port/{port-number}+{protocol}/rate

The following example shows retrieving the rate data for the enabled counters:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/virtual-server/vs1/port/80+tcp/rate \
-H "Content-Type:application/json" \
-H "Authorization: A10 ae894d193ab92f8e1f9243296efe39"
```

If the request succeeds, the following response will be received:

```
{
        "port": {
                "rate": [{
                        "counter_name": "curr_conn",
                        "1sec_rate": 0,
                        "5sec_rate": 0,
                        "10sec_rate": 0,
                        "30sec_rate": 0
                }, {
                        "counter_name": "total_dns_pkts",
                        "1sec_rate": 0,
                        "5sec_rate": 0,
                        "10sec_rate": 0,
                        "30sec_rate": 0
                }, {
                        "counter_name": "slowest_rsp_time",
                        "1sec_rate": 0,
                        "5sec_rate": 0,
                        "10sec_rate": 0,
                        "30sec_rate": 0
                }, {
                        "counter_name": "total_ssl_conn",
                        "1sec_rate": 0,
                        "5sec_rate": 0,
                        "10sec_rate": 0,
                        "30sec_rate": 0
                }],
                "a10-url": "/axapi/v3/slb/virtual-server/vs1/port/80+tcp/rate",
                "port-number": 80,
                "protocol": "tcp"
        }
}
```


UUID

Every object gets an auto-generated unique identifier assigned when it is created. Once you save the running configuration, the UUID remains the same regardless if the ACOS device is reloaded or fails over in VCS mode.

Example

When you configure a real server, the server gets a UUID. When you configure a virtual port on a virtual server, that element gets a UUID. When you add a service group, that collection gets a UUID. The UUID can be used as an endpoint to retrieve information about an object, to update an object, or to delete an object.

URI: /axapi/v3/uuid/{id}

The following example shows using the UUID of **fbb05d0a-4f10-11e5-ade5-79d397dc1ac7** to retrieve a configured virtual port 80 tcp on the SLB virtual server named vs1:

```
curl -k GET https://10.10.10.10/axapi/v3/uuid/fbb05d0a-4f10-11e5-ade5-79d397dc1ac7 \
-H "Content-Type:application/json" \
-H "Authorization: A10 ae894d193ab92f8e1f9243296efe39"
```

If the request succeeds, the following response will be received:


```
{
        "port": {
                "port-number": 80,
                "protocol": "tcp",
                "range": 0,
                "conn-limit": 8000000,
                "reset": 0,
                "no-logging": 0,
                "use-alternate-port": 0,
                "action": "enable",
                "def-selection-if-pref-failed": "def-selection-if-pref-failed",
                "ha-conn-mirror": 0,
                "skip-rev-hash": 0,
                "message-switching": 0,
                "force-routing-mode": 0,
                "reset-on-server-selection-fail": 0,
                "clientip-sticky-nat": 0,
                "extended-stats": 0,
                "snat-on-vip": 0,
                "stats-data-action": "stats-data-enable",
                "syn-cookie": 0,
                "no-auto-up-on-aflex": 0,
                "scaleout-bucket-count": 32,
                "auto": 0,
                "ipinip": 0,
                "rtp-sip-call-id-match": 0,
                "use-rcv-hop-for-resp": 0,
                "template-tcp": "default",
                "template-virtual-port": "default",
                "use-default-if-no-server": 0,
                "no-dest-nat": 0,
                "uuid": "fbb05d0a-4f10-11e5-ade5-79d397dc1ac7",
                "sampling-enable": [{
                        "counters1": "curr_conn"
                }, {
                        "counters1": "slowest_rsp_time"
                }, {
                        "counters1": "total_dns_pkts"
                }, {
                        "counters1": "total_ssl_conn"
                }]
        }
}
```

Operations

The available operations vary depending on the type of object involved. See the sections below for details about the available options for each type of resource, and the HTTP method that is used to complete each operation.

Elements

The table below lists the supported operations for element resources.

Table 1.1: Supported Operations for aXAPIv3 Elements

Operation	HTTP Method	Description
Get Object	GET	Returns the JSON data of a configured element.
Modify Object	POST	Modifies an element that has already been created. Note that this usage of the HTTP POST method is idempotent, as all elements have a unique name or identifier in the form of their Object Key.
Replace Object	PUT	Replaces a configured element's configuration with a new configuration. This operation is idempotent. However, unlike Modify Object, it is not additive. This means that if a particular parameter was previously configured, but you do not specify a value for it while performing a Replace Object operation, that parameter will be reset to its default value.
Delete Object	DELETE	Removes the element from its collection and from the ACOS device.

Collections

The table below lists the supported operations for collection resources.

Operation	HTTP Method	Description
Get List	GET	Returns a JSON representation of all elements inside a collection, and their parameters and child elements.
Create List	POST	This method allows you to either create new elements or modify existing elements in this collection.
Replace List	PUT	Similar to Replace Object, this operation replaces all values inside the collection. This means that any element not in the Replace List operation's JSON data will be removed from the collection and the ACOS device.
Delete List	DELETE	Deletes all elements within the collection, removing them from the ACOS device's configuration. Note that the collection itself cannot be deleted - it will continue to exist as an empty list.

Intermediate Resources

The table below lists the supported operations for intermediate resources.

Operation	HTTP Method	Description
Get Object	GET	Returns configuration information for the elements and collections contained in the module.

Note: You cannot modify an intermediate resource, or use it to configure any elements or collections contained within it.

Configuration Resources

The table below lists the supported operations for configuration resources.

Operation	HTTP Method	Description
Get Object	GET	Returns a representation of the current configuration of this resource.
Modify Object	POST	Specify values other than the default settings for this configuration object. You can only configure one of each configuration object. This use of the POST method is idempotent.
Replace Object	PUT	Replaces the settings object's attributes completely. This means that if a particular parameter was previously configured, and is not in the Replace Object's parameters, that parameter's values will be set to the default.
Delete Object	DELETE	Deletes the configuration resource, returning all attributes to their default values.

Statistics Data Resources

The table below lists the supported operations for statistics data resources.

Operation	HTTP Method	Description
Get Object	GET	Returns statistics counters and their current values for the element or collection resource specified in the URI.
Modify Object	POST	Reset specific counters to zero for the element or collection resource.
Delete Object	DELETE	Clear all counters for the element or collection resource.

Note: You cannot modify statistics data resources. You can only get or reset the values of the counters.

Operational Data Resources

The table below lists the supported operations for operational data resources.

Operation	HTTP Method	Description
Get Object	GET	Return information about the operational status of the element, such as Up or Down, or any current sessions or dynamically assigned attributes.
Delete Object	DELETE	Reset the operational status of a resource that contains sessions or dynamically assigned attributes, such as IP or MAC addresses.

Note: You cannot always modify an operational data resource directly. In those cases, you would modify the element's status through the element's own URI. (For example, a virtual port can be enabled or disabled via its own URI, but its operational data resource only indicates whether it is Up or Down.)

Baseline Data Resources

The table below lists the supported operations for baseline data resources.

Operation	HTTP Method	Description
Get Object	GET	Returns baseline counters and their current values for the element or collection resource specified in the URI.

Note: You cannot modify baseline data resources.

Rate Data Resources

The table below lists the supported operations for rate data resources.

Operation	HTTP Method	Description
Get Object	GET	Returns rate counters and their current values for the element or collection resource specified in the URI.

Note: You cannot modify rate data resources.

Example API Configuration

The following example shows a possible configuration of an HTTP Virtual Server using the aXAPI. The workflow consists of the following steps:

- Configure Real Servers - configure a real server and its ports.
- Configure Service Group - add real servers to a service group.
- Configure Virtual Server - create a virtual server, and its virtual ports, binding the service group to the virtual port.
- View Your Configuration - confirm the SLB configuration is correct.
- Edit Your Configuration - use the UUID to make configuration changes.

Note: For this example, the ACOS device will have an IP address of 10.10.10.10. To configure a virtual server on your own ACOS device, you must change the IP address in the following example cURL calls to the IP address or hostname configured on your ACOS device.

Configure Real Servers

Use the Create Object operation to create a new real server. To do so, perform an HTTP request using the POST method to https://10.10.10.10/axapi/v3/slb/server/ and include any parameters for SLB real servers that you want in your configuration. This example is fairly simple, so the server will only be configured with a name and IP address.

To configure a real server, make the following HTTP request, defining the server's name and host IP address:

```
curl -k POST https://10.10.10.10/axapi/v3/slb/server \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b" \
-d '{
  "server-list": [
        {
         "name":"server1",
          "host":"10.10.10.11"
        }
  ]
}'
```

The HTTP response to the above request will contain the following payload:

```
{
  "server": {
        "name":"server1",
        "host":"10.10.10.11",
        "action":"enable",
        "template-server":"default",
        "health-check-disable":0,
        "conn-limit":8000000,
        "no-logging":0,
        "weight":1,
        "slow-start":0,
        "spoofing-cache":0,
```

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```
        "stats-data-action":"stats-data-enable",
        "extended-stats":0,
        "uuid":"a9e3bba4-c9e4-11e4-b4dd-fa163eeb9631"
  }
}
```

Take note of the UUID if you want to use it for subsequent calls regarding server1. See *Edit the Configuration* for further details.

Add a Port to the Server

Next, create the ports on the server. To do so, make a POST request to the following /axapi/v3/slb/server/server1/port/. Note that you could also create the ports at the same time as the server, by including a port-list object in the payload of the POST request in the previous step.

To create a port on server1, use the following HTTP request, which defines the port number and protocol for the server port:

```
curl -k POST https://10.10.10.10/axapi/v3/slb/server/server1/port/ \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b" \
-d '{
  "port-list": [
        {
          "port-number":80,
          "protocol":"tcp"
        }
  ]
}'
```

The body of the response will look like this:

```
{
  "port": {
        "port-number":80,
        "protocol":"tcp",
        "range":0,
        "template-port":"default",
        "action":"enable",
        "no-ssl":0,
        "health-check-disable":0,
        "weight":1,
        "conn-limit":8000000,
        "no-logging":0,
        "stats-data-action":"stats-data-enable",
        "extended-stats":0,
        "uuid":"c12d9618-c9e4-11e4-b4dd-fa163eeb9631"
  }
}
```

Take note of the UUID if you want to use it for subsequent calls regarding the port. See *Edit the Configuration* for further details.

Confirm the Real Server Configuration

To confirm your configuration, you can perform a GET request for the server configuration to https://10.10.10.10/axapi/v3/slb/server/server1. Here is an example:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/server/server1 \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"
```

Here is an example of confirming the configuration by using the UUID endpoint (rather than using /slb/server/server1):

```
curl -k GET https://10.10.10.10/axapi/v3/uuid/a9e3bba4-c9e4-11e4-b4dd-fa163eeb9631 \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"
```

If everything has been configured correctly, this request will return the following response payload:

```
{
  "server": {
        "name":"server1",
        "host":"10.10.10.11",
        "action":"enable",
        "template-server":"default",
        "health-check-disable":0,
        "conn-limit":8000000,
        "no-logging":0,
        "weight":1,
        "slow-start":0,
        "spoofing-cache":0,
        "stats-data-action":"stats-data-enable",
        "extended-stats":0,
        "uuid":"a9e3bba4-c9e4-11e4-b4dd-fa163eeb9631",
        "port-list": [
          {
                "port-number":80,
                "protocol":"tcp",
                "range":0,
                "template-port":"default",
                "action":"enable",
                "no-ssl":0,
                "health-check-disable":0,
                "weight":1,
                "conn-limit":8000000,
                "no-logging":0,
                "stats-data-action":"stats-data-enable",
                "extended-stats":0,
                "uuid":"c12d9618-c9e4-11e4-b4dd-fa163eeb9631",
                "a10-url":"/axapi/v3/slb/server/server1/port/80+tcp"
          }
        ]
  }
}
```

You can also confirm the configuration by viewing the list of all configured servers on the ACOS device. To do so,

perform an HTTP GET request to https://10.10.10.10/axapi/v3/slb/server/:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/server \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"
```

If everything has been configured correctly, the following HTTP response body will be returned:


```
{
  "server-list": [
        {
          "name":"server1",
          "host":"10.10.10.11",
          "action":"enable",
          "template-server":"default",
          "health-check-disable":0,
          "conn-limit":8000000,
          "no-logging":0,
          "weight":1,
          "slow-start":0,
          "spoofing-cache":0,
          "stats-data-action":"stats-data-enable",
          "extended-stats":0,
          "uuid":"a9e3bba4-c9e4-11e4-b4dd-fa163eeb9631",
          "port-list": [
                {
                  "port-number":80,
                  "protocol":"tcp",
                  "range":0,
                  "template-port":"default",
                  "action":"enable",
                  "no-ssl":0,
                  "health-check-disable":0,
                  "weight":1,
                  "conn-limit":8000000,
                  "no-logging":0,
                  "stats-data-action":"stats-data-enable",
                  "extended-stats":0,
                  "uuid":"c12d9618-c9e4-11e4-b4dd-fa163eeb9631",
                  "a10-url":"/axapi/v3/slb/server/server1/port/80+tcp"
                }
          ],
          "a10-url":/axapi/v3/slb/server/server1"
        }
  ]
}
```

Create a Second Real Server

You can repeat this process to add additional servers and/or ports. For example, the following POST request will configure a new server that will be part of the pool of servers available to the virtual server:

```
curl -k POST https://10.10.10.10/axapi/v3/slb/server \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b" \
-d '{
  "server-list": [
        {
          "name":"server2",
          "host":"10.10.10.12",
          "port-list": [
                {
                  "port-number":80,
                  "protocol":"tcp"
                }
          ]
        }
  ]
}'
```

Note: This can also be fulfilled with a PUT request, but you must be certain to include the settings for server1 in the PUT request, otherwise server1 will be removed from the configuration.

Configure a Service Group

Next we will configure the service group. This is the pool of servers (specifically the two servers created above) that will be used for load balancing the traffic to the virtual server.

To create a service group, perform a POST request to https://10.10.10.10/axapi/v3/slb/service-group/:

```
curl -k POST https://10.10.10.10/axapi/v3/slb/service-group \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b" \
-d '{
  "service-group-list": [
        {
          "name":"sg1",
          "protocol":"tcp"
        }
  ]
}'
```

If the request succeeds, the following response will be received:

```
{
  "service-group": {
        "name":"sg1",
        "protocol":"tcp",
```

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```
        "lb-method":"round-robin",
        "stateless-auto-switch":0,
        "reset-on-server-selection-fail":0,
        "priority-affinity":0,
        "backup-server-event-log":0,
        "stats-data-action":"stats-data-enable",
        "extended-stats":0,
        "traffic-replication-mirror":0,
        "traffic-replication-mirror-da-repl":0,
        "traffic-replication-mirror-ip-repl":0,
        "traffic-replication-mirror-sa-da-repl":0,
        "traffic-replication-mirror-sa-repl":0,
        "health-check-disable":0,
        "sample-rsp-time":0,
        "uuid":"53a24e44-c9e5-11e4-b4dd-fa163eeb9631"
  }
}
```

Take note of the UUID if you want to use it for subsequent calls regarding the service-group.

Add Servers to the Service Group

You can now add the servers as members of the service group. Create a POST request to https://10.10.10.10/axapi/v3/slb/service-group/sg1/member/:

```
curl -k POST https://10.10.10.10/axapi/v3/slb/service-group/sg1/member \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b" \
-d '{
  "member-list": [
        {
          "name":"server1",
          "port":80
        },
        {
          "name":"server2",
          "port":80
        }
  ]
}'
```

The following payload will be returned in the response:

```
{
  "member-list": [
        {
          "name":"server1",
          "port":80,
          "member-state":"enable",
          "member-stats-data-disable":0,
          "member-priority":1,
```

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```
          "uuid":"6afde274-c9e5-11e4-b4dd-fa163eeb9631"
        },
        {
          "name":"server2",
          "port":80,
          "member-state":"enable",
          "member-stats-data-disable":0,
          "member-priority":1,
          "uuid":"6afe0614-c9e5-11e4-b4dd-fa163eeb9631"
        }
  ]
}
```

Confirm the Service Group Configuration

To confirm the service group has been configured, you can perform a GET request to https://10.10.10.10/axapi/v3/slb/service-group/sg1/:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/service-group/sg1/ \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"
```

Here is an example of confirming the service group configuration by using the UUID endpoint (rather than using /slb/service-group/sg1/):

```
curl -k GET https://10.10.10.10/axapi/v3/uuid/53a24e44-c9e5-11e4-b4dd-fa163eeb9631 \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"
```

The response should look like this:

```
{
  "service-group": {
        "name":"sg1",
        "protocol":"tcp",
        "lb-method":"round-robin",
        "stateless-auto-switch":0,
        "reset-on-server-selection-fail":0,
        "priority-affinity":0,
        "backup-server-event-log":0,
        "stats-data-action":"stats-data-enable",
        "extended-stats":0,
        "traffic-replication-mirror":0,
        "traffic-replication-mirror-da-repl":0,
        "traffic-replication-mirror-ip-repl":0,
        "traffic-replication-mirror-sa-da-repl":0,
        "traffic-replication-mirror-sa-repl":0,
        "health-check-disable":0,
        "sample-rsp-time":0,
        "uuid":"53a24e44-c9e5-11e4-b4dd-fa163eeb9631",
        "member-list": [
```

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```
          {
                "name":"server1",
                "port":80,
                "member-state":"enable",
                "member-stats-data-disable":0,
                "member-priority":1,
                "uuid":"6afde274-c9e5-11e4-b4dd-fa163eeb9631",
                "a10-url":"/axapi/v3/slb/service-group/sg1/member/server1+80"
          },
          {
                "name":"server2",
                "port":80,
                "member-state":"enable",
                "member-stats-data-disable":0,
                "member-priority":1,
                "uuid":"6afe0614-c9e5-11e4-b4dd-fa163eeb9631",
                "a10-url":"/axapi/v3/slb/service-group/sg1/member/server2+80"
          }
        ]
  }
}
```

You can also check the list of all configured service groups using a GET request to https://10.10.10.10/axapi/v3/slb/service-group/:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/service-group \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"
```

If the service group has been configured correctly, the following response will be received:

```
{
  "service-group-list": [
        {
          "name":"sg1",
          "protocol":"tcp",
          "lb-method":"round-robin",
          "stateless-auto-switch":0,
          "reset-on-server-selection-fail":0,
          "priority-affinity":0,
          "backup-server-event-log":0,
          "stats-data-action":"stats-data-enable",
          "extended-stats":0,
          "traffic-replication-mirror":0,
          "traffic-replication-mirror-da-repl":0,
          "traffic-replication-mirror-ip-repl":0,
          "traffic-replication-mirror-sa-da-repl":0,
          "traffic-replication-mirror-sa-repl":0,
          "health-check-disable":0,
          "sample-rsp-time":0,
          "uuid":"53a24e44-c9e5-11e4-b4dd-fa163eeb9631",
          "member-list": [
```

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```
                {
                  "name":"server1",
                  "port":80,
                  "member-state":"enable",
                  "member-stats-data-disable":0,
                  "member-priority":1,
                  "uuid":"6afde274-c9e5-11e4-b4dd-fa163eeb9631",
                  "a10-url":"/axapi/v3/slb/service-group/sg1/member/server1+80"
                },
                {
                  "name":"server2",
                  "port":80,
                  "member-state":"enable",
                  "member-stats-data-disable":0,
                  "member-priority":1,
                  "uuid":"6afe0614-c9e5-11e4-b4dd-fa163eeb9631",
                  "a10-url":"/axapi/v3/slb/service-group/sg1/member/server2+80"
                }
          ],
          "a10-url":"/axapi/v3/slb/service-group/sg1"
        }
  ]
}
```

Configure a Virtual Server

Configure the virtual server that will be receiving the traffic that will be load balanced by the back-end real servers. Use a POST request sent to https://10.10.10.10/axapi/v3/slb/virtual-server/:

```
curl -k POST https://10.10.10.10/axapi/v3/slb/virtual-server \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b" \
-d '{
  "virtual-server-list": [
        {
          "name":"vip1",
          "ip-address":"10.10.10.20"
        }
  ]
}'
```

The response will look like this:

```
{
  "virtual-server": {
        "name":"vip1",
        "ip-address":"10.10.10.20",
        "enable-disable-action":"enable",
        "redistribution-flagged":0,
        "arp-disable":0,
        "stats-data-action":"stats-data-enable",
```

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```
        "extended-stats":0,
        "uuid":"de3238c6-c9e5-11e4-b4dd-fa163eeb9631"
  }
}
```

Take note of the UUID if you want to use it for subsequent calls regarding the virtual-server.

Add a Virtual Port

You can then configure a virtual port on the virtual server. Traffic sent to the HTTP port will be redirected to the servers in the service group, using the load-balancing algorithm specified in the service group's configuration. In this case, the default algorithm, round robin, is used.

You can either configure virtual ports while you are configuring the virtual server (using the *port-list* child element) or by sending a POST request to https://10.10.10.10/axapi/v3/slb/virtual-server/vip1/port/:

```
curl -k POST https://10.10.10.10/axapi/v3/slb/virtual-server/vip1/port \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b" \
-d '{
  "port-list": [
        {
          "port-number":80,
          "protocol":"http",
          "service-group":"sg1"
        }
  ]
}'
```

The following response will be received:

```
{
  "port": {
        "port-number":80,
        "protocol":"http",
        "range":0,
        "conn-limit":8000000,
        "reset":0,
        "no-logging":0,
        "use-alternate-port":0,
        "action":"enable",
        "def-selection-if-pref-failed":"def-selection-if-pref-failed",
        "skip-rev-hash":0,
        "message-switching":0,
        "force-routing-mode":0,
        "reset-on-server-selection-fail":0,
        "clientip-sticky-nat":0,
        "extended-stats":0,
        "snat-on-vip":0,
        "stats-data-action":"stats-data-enable",
        "syn-cookie":0,
        "no-auto-up-on-aflex":0,
```

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```
        "no-dest-nat":0,
        "scaleout-bucket-count":32,
        "auto":0,
        "service-group":"sg1",
        "ipinip":0,
        "rtp-sip-call-id-match":0,
        "use-rcv-hop-for-resp":0,
        "redirect-to-https":0,
        "template-virtual-port":"default",
        "uuid":"f2152182-c9e5-11e4-b4dd-fa163eeb9631"
  }
}
```


Take note of the UUID if you want to use it for subsequent calls regarding the port. See *Edit the Configuration* for further details.

Confirm the Virtual Server Configuration

To confirm the configuration of the virtual server, perform a GET request to https://10.10.10.10/axapi/v3/slb/virtual-server/vip1/:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/virtual-server/vip1 \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"
```

Here is an example of confirming the virtual server configuration by using the UUID endpoint (rather than using /slb/virtual-server/vip1/):

```
curl -k GET https://10.10.10.10/axapi/v3/uuid/de3238c6-c9e5-11e4-b4dd-fa163eeb9631 \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"
```

If the virtual server has been configured as described in the steps above, the response payload will look like this:


```
{
  "virtual-server": {
        "name":"vip1",
        "ip-address":"10.10.10.20",
        "enable-disable-action":"enable",
        "redistribution-flagged":0,
        "arp-disable":0,
        "stats-data-action":"stats-data-enable",
        "extended-stats":0,
        "uuid":"de3238c6-c9e5-11e4-b4dd-fa163eeb9631",
        "port-list": [
          {
                "port-number":80,
                "protocol":"http",
                "range":0,
                "conn-limit":8000000,
                "reset":0,
                "no-logging":0,
```


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```
                "use-alternate-port":0,
                "action":"enable",
                "def-selection-if-pref-failed":"def-selection-if-pref-failed",
                "skip-rev-hash":0,
                "message-switching":0,
                "force-routing-mode":0,
                "reset-on-server-selection-fail":0,
                "clientip-sticky-nat":0,
                "extended-stats":0,
                "snat-on-vip":0,
                "stats-data-action":"stats-data-enable",
                "syn-cookie":0,
                "no-auto-up-on-aflex":0,
                "no-dest-nat":0,
                "scaleout-bucket-count":32,
                "auto":0,
                "service-group":"sg1",
                "ipinip":0,
                "rtp-sip-call-id-match":0,
                "use-rcv-hop-for-resp":0,
                "redirect-to-https":0,
                "template-virtual-port":"default",
                "uuid":"f2152182-c9e5-11e4-b4dd-fa163eeb9631",
                "a10-url":"/axapi/v3/slb/virtual-server/vip1/port/80+http"
            }
        ]
    }
}
```


You can also perform a GET request to see the list of all configured virtual servers. To do so, you would perform a GET request to the URL https://10.10.10.10/axapi/v3/slb/virtual-server/:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/virtual-server \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"
```

View Entire SLB Configuration

To confirm that everything is configured correctly, you can also perform a GET on the SLB intermediate resource. This will show all SLB configurations, including the virtual and real servers, and the service group. Make a GET request to https://10.10.10.10/axapi/v3/slb/:

```
curl -k GET https://10.10.10.10/axapi/v3/slb \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"
```

Assuming everything has been configured as described in the above steps, and no other SLB items exist in the ACOS device's configuration, the HTTP response would contain the following payload:


```
{
  "slb": {
```


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```
        "resource-usage": {
          "client-ssl-template-count":32,
          "conn-reuse-template-count":32,
          "fast-tcp-template-count":32,
          "fast-udp-template-count":32,
          "http-template-count":32,
          "nat-pool-addr-count":10,
          "persist-cookie-template-count":32,
          "persist-srcip-template-count":32,
          "proxy-template-count":32,
          "real-port-count":64,
          "real-server-count":1024,
          "server-ssl-template-count":32,
          "service-group-count":32,
          "stream-template-count":32,
          "virtual-port-count":32,
          "virtual-server-count":16,
          "uuid":"95c48e3c-c9b7-11e4-88c6-fa163eeb9631",
          "a10-url":"/axapi/v3/slb/resource-usage"
        },
        "server-list": [
          {
                "name":"server1",
                "host":"10.10.10.11",
                "action":"enable",
                "template-server":"default",
                "health-check-disable":0,
                "conn-limit":8000000,
                "no-logging":0,
                "weight":1,
                "slow-start":0,
                "spoofing-cache":0,
                "stats-data-action":"stats-data-enable",
                "extended-stats":0,
                "uuid":"a9e3bba4-c9e4-11e4-b4dd-fa163eeb9631",
                "port-list": [
                  {
                        "port-number":80,
                        "protocol":"tcp",
                        "range":0,
                        "template-port":"default",
                        "action":"enable",
                        "no-ssl":0,
                        "health-check-disable":0,
                        "weight":1,
                        "conn-limit":8000000,
                        "no-logging":0,
                        "stats-data-action":"stats-data-enable",
                        "extended-stats":0,
                        "uuid":"c12d9618-c9e4-11e4-b4dd-fa163eeb9631",
                        "a10-url":"/axapi/v3/slb/server/server1/port/80+tcp"
                  }
```


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```
            ],
            "a10-url":"/axapi/v3/slb/server/server1"
      },
      {
            "name":"server2",
            "host":"10.10.10.12",
            "action":"enable",
            "template-server":"default",
            "health-check-disable":0,
            "conn-limit":8000000,
            "no-logging":0,
            "weight":1,
            "slow-start":0,
            "spoofing-cache":0,
            "stats-data-action":"stats-data-enable",
            "extended-stats":0,
            "uuid":"2d826dca-c9e5-11e4-b4dd-fa163eeb9631",
            "port-list": [
              {
                    "port-number":80,
                    "protocol":"tcp",
                    "range":0,
                    "template-port":"default",
                    "action":"enable",
                    "no-ssl":0,
                    "health-check-disable":0,
                    "weight":1,
                    "conn-limit":8000000,
                    "no-logging":0,
                    "stats-data-action":"stats-data-enable",
                    "extended-stats":0,
                    "uuid":"2d827f4a-c9e5-11e4-b4dd-fa163eeb9631",
                    "a10-url":"/axapi/v3/slb/server/server2/port/80+tcp"
              }
            ],
            "a10-url":"/axapi/v3/slb/server/server2"
      }
    ],
    "service-group-list": [
      {
            "name":"sg1",
            "protocol":"tcp",
            "lb-method":"round-robin",
            "stateless-auto-switch":0,
            "reset-on-server-selection-fail":0,
            "priority-affinity":0,
            "backup-server-event-log":0,
            "stats-data-action":"stats-data-enable",
            "extended-stats":0,
            "traffic-replication-mirror":0,
            "traffic-replication-mirror-da-repl":0,
            "traffic-replication-mirror-ip-repl":0,
```


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```
            "traffic-replication-mirror-sa-da-repl":0,
            "traffic-replication-mirror-sa-repl":0,
            "health-check-disable":0,
            "sample-rsp-time":0,
            "uuid":"53a24e44-c9e5-11e4-b4dd-fa163eeb9631",
            "member-list": [
              {
                    "name":"server1",
                    "port":80,
                    "member-state":"enable",
                    "member-stats-data-disable":0,
                    "member-priority":1,
                    "uuid":"6afde274-c9e5-11e4-b4dd-fa163eeb9631",
                    "a10-url":"/axapi/v3/slb/service-group/sg1/member/server1+80"
              },
              {
                    "name":"server2",
                    "port":80,
                    "member-state":"enable",
                    "member-stats-data-disable":0,
                    "member-priority":1,
                    "uuid":"6afe0614-c9e5-11e4-b4dd-fa163eeb9631",
                    "a10-url":"/axapi/v3/slb/service-group/sg1/member/server2+80"
              }
            ],
            "a10-url":"/axapi/v3/slb/service-group/sg1"
      }
    ],
    "virtual-server-list": [
      {
            "name":"vip1",
            "ip-address":"10.10.10.20",
            "enable-disable-action":"enable",
            "redistribution-flagged":0,
            "arp-disable":0,
            "stats-data-action":"stats-data-enable",
            "extended-stats":0,
            "uuid":"de3238c6-c9e5-11e4-b4dd-fa163eeb9631",
            "port-list": [
              {
                    "port-number":80,
                    "protocol":"http",
                    "range":0,
                    "conn-limit":8000000,
                    "reset":0,
                    "no-logging":0,
                    "use-alternate-port":0,
                    "action":"enable",
                    "def-selection-if-pref-failed":"def-selection-if-pref-failed",
                    "skip-rev-hash":0,
                    "message-switching":0,
                    "force-routing-mode":0,
```


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```
                        "reset-on-server-selection-fail":0,
                        "clientip-sticky-nat":0,
                        "extended-stats":0,
                        "snat-on-vip":0,
                        "stats-data-action":"stats-data-enable",
                        "syn-cookie":0,
                        "no-auto-up-on-aflex":0,
                        "no-dest-nat":0,
                        "scaleout-bucket-count":32,
                        "auto":0,
                        "service-group":"sg1",
                        "ipinip":0,
                        "rtp-sip-call-id-match":0,
                        "use-rcv-hop-for-resp":0,
                        "redirect-to-https":0,
                        "template-virtual-port":"default",
                        "uuid":"f2152182-c9e5-11e4-b4dd-fa163eeb9631",
                        "a10-url":"/axapi/v3/slb/virtual-server/vip1/port/80+http"
                    }
                ],
                "a10-url":"/axapi/v3/slb/virtual-server/vip1"
            }
        ],
        "a10-url":"/axapi/v3/slb"
    }
}
```

Edit the Configuration

In addition to accessing and editing *Resources* by URI, it is also possible to do so by UUID. The following examples show a few ways to use the UUID for updating or deleting resources.

Note: Object keys are optional when using the UUID to edit resources. Also, object keys cannot be changed by UUID (for example, you will get an error if you try to change server1 to server3).

To disable server1 by using the UUID endpoint (rather than using /slb/server/server1/):

```
curl -k POST https://10.10.10.10/axapi/v3/uuid/a9e3bba4-c9e4-11e4-b4dd-fa163eeb9631 \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b" \
-d '{
  "server": {
        "action": "disable"
  }
}'
```

To delete the port on server1 by using the UUID endpoint (rather than using /slb/server/server1/port/):

```
curl -k -i -X DELETE https://10.10.10.10/axapi/v3/uuid/c12d9618-c9e4-11e4-b4dd-
↪fa163eeb9631 \
```

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```
-H "Content-Type:application/json" \
-H "Authorization: A10 dfb4690024c8bcdeded6270534a984"
```

To revise the number of concurrent connections on the vip port by using the UUID endpoint (rather than using /slb/virtual-server/vip1/port/):

```
curl -k PUT https://10.10.10.10/axapi/v3/uuid/f2152182-c9e5-11e4-b4dd-fa163eeb9631 \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b" \
-d '{
  "port": {
        "conn-limit": 4000000
  }
}'
```

Filters

aXAPI filters work with GET methods to specify that only certain records of interest will appear in the responses. Without filters, all the records are returned by default.

The aXAPI filter mechanisms provide two aspects of control for all the GET methods. Both of the following mechanisms can work together.

- *Paging Mechanism* - handles a huge amount of data records under an aXAPI endpoint.
- *Field Filtering Mechanism* - picks up special data records that match specified fields.

The stats and oper filters work a bit differently for the GET methods, so their usage is limited to a subset of URIs.

- *Statistics Data Filtering* - for use with URIs that include the `/stats` endpoint.
- *Oper Endpoint Filtering* - for use with URIs that include the `/oper` endpoint.

The slot filters are used in chassis platforms to collect data from both Processing Units (PU) 1 and 2, as well as to aggregate statistical and basic operational data.

- *Slot Filtering* - for use with `/stats` and `/oper` endpoints, which includes 'slot' filter.

The user tag filters are limited to a subset of SSL Insight objects. They are used to automatically mark an object that is created in the SSLi Services GUI.

- *User Tag Filtering* - for use with SSLi objects that include the **"user-tag":"Security"** property.

Paging Mechanism

The paging mechanism helps to break up large responses into more manageable chunks.

The filter keywords `total`, `start`, and `count` are reserved for the paging mechanism.

- total - shows how many records currently exist.
- start - indicates an index from which those records will be returned.
- count - indicates a limitation. It controls how many records should be returned.

For example, if there are four slb servers, the `total=true` filter shows the total count of slb servers:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/server?total=true \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Filtered Response
{
        "total-count":4
}
```

If there are four slb servers, the `start=3` filter shows the server at index number 3: [d1, d2, s1, **s2**]:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/server?start=3 \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Filtered Response
{
        "server-list": [
                {
                  "name":"s2",
                  "host":"1.1.1.2",
                  "action":"enable",
                  "template-server":"default",
                  "health-check-disable":0,
                  "conn-limit":8000000,
                  "no-logging":0,
                  "weight":1,
                  "slow-start":0,
                  "spoofing-cache":0,
                  "stats-data-action":"stats-data-enable",
                  "extended-stats":0,
                  "uuid":"a7ec1a00-3270-11df-a8af-000d480a65d0",
                  "a10-url":"/axapi/v3/slb/server/s2"
                }
        ]
}
```

If there are four slb servers, the `start=1&count=1` filters show a list of servers starting at index number 1, but only a list of 1: [d1, **d2**, s1, s2]:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/server?start=1&count=1 \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Filtered Response
{
        "server-list": [
                {
                  "name":"d2",
                  "host":"1.1.1.4",
                  "action":"enable",
                  "template-server":"default",
                  "health-check-disable":0,
```

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```
                  "conn-limit":8000000,
                  "no-logging":0,
                  "weight":1,
                  "slow-start":0,
                  "spoofing-cache":0,
                  "stats-data-action":"stats-data-enable",
                  "extended-stats":0,
                  "uuid":"b059da1a-3270-11df-a8af-000d480a65d0",
                  "a10-url":"/axapi/v3/slb/server/d2"
                }
        ]
}
```

Field Filtering Mechanism

Field filtering is used to select a matched set of instances as returned records. A filtering keyword is simply a field keyword defined within the schema file. Currently, only the string type field can be supported. The matching rule is that a field's value contains the specified string from filter.

For example, the field `name` is used as a filter to find slb servers whose names contain the character **s**:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/server?name=s \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Filtered Response
{
        "server-list": [
                {
                  "name":"s1",
                  "host":"1.1.1.1",
                  "action":"disable",
                  "template-server":"default",
                  "health-check-disable":0,
                  "conn-limit":8000000,
                  "no-logging":0,
                  "weight":1,
                  "slow-start":0,
                  "spoofing-cache":0,
                  "stats-data-action":"stats-data-enable",
                  "extended-stats":0,
                  "uuid":"a25672e8-3270-11df-a8af-000d480a65d0",
                  "a10-url":"/axapi/v3/slb/server/s1"
                },
                {
                  "name":"s2",
                  "host":"1.1.1.2",
                  "action":"enable",
                  "template-server":"default",
                  "health-check-disable":0,
                  "conn-limit":8000000,
```

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```
                  "no-logging":0,
                  "weight":1,
                  "slow-start":0,
                  "spoofing-cache":0,
                  "stats-data-action":"stats-data-enable",
                  "extended-stats":0,
                  "uuid":"a7ec1a00-3270-11df-a8af-000d480a65d0",
                  "a10-url":"/axapi/v3/slb/server/s2"
                }
        ]
}
```

The combination of multiple fields as filters means an AND relationship, such as using the `name` & `action` fields to find slb servers that start with s and are enabled:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/server?name=s&action=enable \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Filtered Response
{
        "server-list": [
                {
                  "name":"s2",
                  "host":"1.1.1.2",
                  "action":"enable",
                  "template-server":"default",
                  "health-check-disable":0,
                  "conn-limit":8000000,
                  "no-logging":0,
                  "weight":1,
                  "slow-start":0,
                  "spoofing-cache":0,
                  "stats-data-action":"stats-data-enable",
                  "extended-stats":0,
                  "uuid":"a7ec1a00-3270-11df-a8af-000d480a65d0",
                  "a10-url":"/axapi/v3/slb/server/s2"
                }
        ]
}
```

It is possible to use field filtering and paging mechanisms together, such as using the `name` field with the `total` & `count` filters to find the total number of slb servers whose names start with s, starting from index number 0, but only a list of 1:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/server?name=s&start=0&count=1 \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Filtered Response
{
        "server-list": [
```

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```
                {
                  "name":"s1",
                  "host":"1.1.1.1",
                  "action":"disable",
                  "template-server":"default",
                  "health-check-disable":0,
                  "conn-limit":8000000,
                  "no-logging":0,
                  "weight":1,
                  "slow-start":0,
                  "spoofing-cache":0,
                  "stats-data-action":"stats-data-enable",
                  "extended-stats":0,
                  "uuid":"a25672e8-3270-11df-a8af-000d480a65d0",
                  "a10-url":"/axapi/v3/slb/server/s1"
                }
        ]
}
```

Statistics Data Filtering

Some schema files define extended statistics data. To get this part of the data, you need to use the corresponding filter within the URIs that include the `/stats` endpoint. For example, slb virtual port has such statistics data, according to its L7 protocol.

Basic Statistics

The basic statistics are available at the statistics data URI: /axapi/v3/slb/virtual-server/{name}/port/{port-number}+{protocol}/stats:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/virtual-server/vs1/port/80+http/stats \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Response
{
        "port": {
                "stats": {
                        "curr_conn": 0,
                        "total_l4_conn": 0,
                        "total_l7_conn": 0,
                        "total_tcp_conn": 0,
                        "total_conn": 0,
                        "total_fwd_bytes": 0,
                        "total_fwd_pkts": 0,
                        "total_rev_bytes": 0,
                        "total_rev_pkts": 0,
                        "total_dns_pkts": 0,
                        "total_mf_dns_pkts": 0,
                        "es_total_failure_actions": 0,
                        "compression_bytes_before": 0,
                        "compression_bytes_after": 0,
```

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```
                        "compression_hit": 0,
                        "compression_miss": 0,
                        "compression_miss_no_client": 0,
                        "compression_miss_template_exclusion": 0,
                        "curr_req": 0,
                        "total_req": 0,
                        "total_req_succ": 0,
                        "peak_conn": 0,
                        "curr_conn_rate": 0,
                        "last_rsp_time": 0,
                        "fastest_rsp_time": 0,
                        "slowest_rsp_time": 0
                },
                "a10-url": "/axapi/v3/slb/virtual-server/vs1/port/80+http/stats",
                "port-number": 80,
                "protocol": "http"
        }
}
```

Extended HTTP Statistics

The extended statistics for the slb virtual port are available with the addition of the `http_vport=true` filter:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/virtual-server/vs1/port/80+http/stats?http_
↪vport=true \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Filtered Response
{
        "port": {
                "stats": {
                        "http_vport": {
                                "status_200": 0,
                                "status_201": 0,
                                "status_202": 0,
                                "status_203": 0,
                                "status_204": 0,
                                "status_205": 0,
                                "status_206": 0,
                                "status_207": 0,
                                "status_100": 0,
                                "status_101": 0,
                                "status_102": 0,
                                "status_103": 0,
                                "status_300": 0,
                                "status_301": 0,
                                "status_302": 0,
                                "status_303": 0,
                                "status_304": 0,
                                "status_305": 0,
                                "status_306": 0,
                                "status_307": 0,
```

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```
                                    "status_400": 0,
                                    "status_401": 0,
                                    "status_402": 0,
                                    "status_403": 0,
                                    "status_404": 0,
                                    "status_405": 0,
                                    "status_406": 0,
                                    "status_407": 0,
                                    "status_408": 0,
                                    "status_409": 0,
                                    "status_410": 0,
                                    "status_411": 0,
                                    "status_412": 0,
                                    "status_413": 0,
                                    "status_414": 0,
                                    "status_415": 0,
                                    "status_416": 0,
                                    "status_417": 0,
                                    "status_418": 0,
                                    "status_422": 0,
                                    "status_423": 0,
                                    "status_424": 0,
                                    "status_425": 0,
                                    "status_426": 0,
                                    "status_449": 0,
                                    "status_450": 0,
                                    "status_500": 0,
                                    "status_501": 0,
                                    "status_502": 0,
                                    "status_503": 0,
                                    "status_504": 0,
                                    "status_504_ax": 0,
                                    "status_505": 0,
                                    "status_506": 0,
                                    "status_507": 0,
                                    "status_508": 0,
                                    "status_509": 0,
                                    "status_510": 0,
                                    "status_1xx": 0,
                                    "status_2xx": 0,
                                    "status_3xx": 0,
                                    "status_4xx": 0,
                                    "status_5xx": 0,
                                    "status_6xx": 0,
                                    "status_unknown": 0,
                                    "ws_handshake_request": 0,
                                    "ws_handshake_success": 0,
                                    "ws_client_switch": 0,
                                    "ws_server_switch": 0,
                                    "REQ_10u": 0,
                                    "REQ_20u": 0,
                                    "REQ_50u": 0,
```


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```
                                "REQ_100u": 0,
                                "REQ_200u": 0,
                                "REQ_500u": 0,
                                "REQ_1m": 0,
                                "REQ_2m": 0,
                                "REQ_5m": 0,
                                "REQ_10m": 0,
                                "REQ_20m": 0,
                                "REQ_50m": 0,
                                "REQ_100m": 0,
                                "REQ_200m": 0,
                                "REQ_500m": 0,
                                "REQ_1s": 0,
                                "REQ_2s": 0,
                                "REQ_5s": 0,
                                "REQ_OVER_5s": 0
                        }
                },
                "a10-url": "/axapi/v3/slb/virtual-server/vs1/port/80+http/stats",
                "port-number": 80,
                "protocol": "http"
        }
}
```

Note: The paging mechanism and field filtering mechanism cannot work with extended statistics filtering.

Reserved Filter Statistics

For typical config endpoints, there is a reserved ON/OFF filter called `stats` for getting config data and basic statistics data at the same time:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/virtual-server/vs1/port/80+http?stats=true \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Filtered Response
{
        "port": {
                "port-number": 80,
                "protocol": "http",
                "range": 0,
                "conn-limit": 8000000,
                "reset": 0,
                "no-logging": 0,
                "use-alternate-port": 0,
                "action": "enable",
                "def-selection-if-pref-failed": "def-selection-if-pref-failed",
                "skip-rev-hash": 0,
                "message-switching": 0,
                "force-routing-mode": 0,
                "reset-on-server-selection-fail": 0,
```

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```
                "clientip-sticky-nat": 0,
                "extended-stats": 0,
                "snat-on-vip": 0,
                "stats-data-action": "stats-data-enable",
                "syn-cookie": 0,
                "no-auto-up-on-aflex": 0,
                "no-dest-nat": 0,
                "scaleout-bucket-count": 32,
                "auto": 0,
                "ipinip": 0,
                "rtp-sip-call-id-match": 0,
                "use-rcv-hop-for-resp": 0,
                "redirect-to-https": 0,
                "template-virtual-port": "default",
                "uuid": "6e9cb4dc-3278-11df-a8af-000d480a65d0",
                "stats": {
                        "curr_conn": 0,
                        "total_l4_conn": 0,
                        "total_l7_conn": 0,
                        "total_tcp_conn": 0,
                        "total_conn": 0,
                        "total_fwd_bytes": 0,
                        "total_fwd_pkts": 0,
                        "total_rev_bytes": 0,
                        "total_rev_pkts": 0,
                        "total_dns_pkts": 0,
                        "total_mf_dns_pkts": 0,
                        "es_total_failure_actions": 0,
                        "compression_bytes_before": 0,
                        "compression_bytes_after": 0,
                        "compression_hit": 0,
                        "compression_miss": 0,
                        "compression_miss_no_client": 0,
                        "compression_miss_template_exclusion": 0,
                        "curr_req": 0,
                        "total_req": 0,
                        "total_req_succ": 0,
                        "peak_conn": 0,
                        "curr_conn_rate": 0,
                        "last_rsp_time": 0,
                        "fastest_rsp_time": 0,
                        "slowest_rsp_time": 0
                }
        }
}
```


Note: This is not a `/stats` endpoint, but the addition of a `?stats=true` filter. The extended statistics cannot work in this way.

Oper Endpoint Filtering

The oper endpoints end with the keyword `/oper`. These are used to retrieve dynamic operational status information from the back-end to see things like available memory, status of fans, admins logged in, etc. Filters are now also available for getting the status plus available extras such as total number of elements, a single record, and the configuration. The valid filters are defined by the oper field in the schema file. As the field filtering mechanism does, it accepts a string value. The paging mechanism is also supported. As of now, its scope is not the object instance. Instead, it works for oper fields within a multiple block.

Used by itself, the `/oper` endpoint will show operational data for each element within a collection or intermediate resource:

```
curl -k GET https://10.10.10.10/axapi/v3/admin-session/oper \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Response
{
        "admin-session": {
                "oper" : {
                  "session-list": [
                        {
                          "sid":"1",
                          "name":"admin",
                          "src_ip":"10.10.10.11",
                          "type":"WEB",
                          "cfg_mode":"No"
                        },
                        {
                          "sid":"*3",
                          "name":"admin",
                          "src_ip":"10.10.10.12",
                          "type":"WEBSERVICE",
                          "cfg_mode":"No"
                        }
                  ]
                },
                "a10-url":"/axapi/v3/admin-session/oper"
        }
}
```

Used with the `total` paging mechanism, it will find the total number of elements at an endpoint. The back-end determines if oper field filtering mechanism works or not:

```
curl -k GET https://10.10.10.10/axapi/v3/admin-session/oper?total=true \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Filtered Response
{
  "total-count":2
}
```

In the following example, the `start` paging mechanism is used to find a single object instance record at an endpoint. The back-end determines if oper field filtering mechanism works or not:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/server/s2/oper?start=0 \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Filtered Response
{
        "server": {
                "oper": {
                        "state": "Down"
                },
                "a10-url": "/axapi/v3/slb/server/s2/oper",
                "name": "s2"
        }
}
```

For typical config endpoints, there is a reserved ON/OFF filter called `oper` for getting config data and basic operational data at the same time:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/server/s1?oper=true \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Filtered Response
{
        "server": {
                "name":"s1",
                "host":"1.1.1.1",
                "action":"disable",
                "template-server":"default",
                "health-check-disable":0,
                "conn-limit":8000000,
                "no-logging":0,
                "weight":1,
                "slow-start":0,
                "spoofing-cache":0,
                "stats-data-action":"stats-data-enable",
                "extended-stats":0,
                "uuid":"a25672e8-3270-11df-a8af-000d480a65d0",
                "oper" : {
                  "state":"Disabled"
                }
        }
}
```

Note: This is not the `/oper` endpoint, but the addition of the `?oper=true` filter.

Slot Filtering

The slot filters are used in chassis platforms to collect data from both Processing Units (PU) 1 and 2, as well as to aggregate statistical and basic operational data.

They are used to:

- Retrieve statistics and operational data from PU 1 and 2 individually
- Aggregate statistical data by default
- Aggregate operational data based on the schema with the metadata.

The 'slot' filter accepts an integer value that indicates the slot ID for PU1 or PU2. When 'slot' is set to 0, data is fetched from PU1. When 'slot' is set to 1, data is fetched from PU2. If 'slot' is not specified, the default slot ID is used. For statistical data, the default slot ID is 0 and 1. For operational data, the default slot ID is 0.

Some endpoints do not support processing units. For example:

```
    GET /axapi/v3/ddos/dst/entry/oper?slot=1
    {
            "response": {
                    "status": "fail",
                    "err": {
                            "code": 1023655943,
                            "from": "JSON",
                            "msg": "Local only.",
                            "location": "slot"
                    }
            }
}
```

The 'slot' filter can be specified multiple times to aggregate the specified PUs. For example:

```
GET /axapi/v3/system/control-cpu/stats?slot=0&slot=1
{
        "control-cpu": {
                "stats" : {
                        "ctrl-cpu-number":2,
                        "cpu-1":19,
                        "cpu-2":0,
                }
        }
}
```

Aggregating Statistics Data

By default, aXAPI automatically aggregates statistical data from all PUs. However, the 'slot' filter can be specified to fetch data on a per PU basis and retrieve information from a specific PU. For example:

```
GET /axapi/v3/system/control-cpu/stats?slot=0
{
        "control-cpu": {
                "stats" : {
                        "ctrl-cpu-number":1,
                        "cpu-1":15,
                        "cpu-2":0,
```

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```
                        "cpu-3":0,
                }
        }
}
GET /axapi/v3/system/control-cpu/stats?slot=1
{
        "control-cpu": {
                "stats" : {
                        "ctrl-cpu-number":1,
                        "cpu-1":5,
                        "cpu-2":0,
                }
        }
}
GET /axapi/v3/system/control-cpu/stats
{
        "control-cpu": {
                "stats" : {
                        "ctrl-cpu-number":2,
                        "cpu-1":19,
                        "cpu-2":0,
                }
        }
}
```

Aggregating Operational Data

By default, aXAPI does not automatically aggregate the Operational data. It depends on the oper schema having corresponding attributes described by the metadata "slot-oper-merge," "slot-num-add," and "slot-aggregate" to perform the aggregation. Using these attributes can help aggregate the oper array list. For example, see the below request and its response. In response, each session-list entry has an additional field "slot_id" to indicate the PUs:

```
        GET /axapi/v3/admin-session/oper
        {
                "admin-session": {
                        "oper" : {
                                "session-list": [
                                {
                                        "sid":"2",
                                        "name":"admin",
                                        "start_time":"15:12:33 IST Fri May 20 2016",
                                        "src_ip":"127.0.0.1",
                                        "type":"WEBSERVICE",
                                        "cfg_mode":"No",
                                        "slot_id":0                                [ PU1␣
↪slot id]
                                },
                                {
                                        "sid":"*5",
                                        "name":"admin",
                                        "start_time":"15:34:55 IST Fri May 20 2016",
                                        "src_ip":"172.17.65.23",
                                        "type":"WEBSERVICE",
```

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```
                                        "cfg_mode":"No",
                                        "slot_id":0
                                },
                                {
                                        "sid":"2",
                                        "name":"admin",
                                        "start_time":"15:12:33 IST Fri May 20 2016",
                                        "src_ip":"127.0.0.1",
                                        "type":"WEBSERVICE",
                                        "cfg_mode":"No",
                                        "slot_id":1
                                },
                                {
                                        "sid":"*5",
                                        "name":"admin",
                                        "start_time":"15:34:55 IST Fri May 20 2016",
                                        "src_ip":"172.17.65.23",
                                        "type":"WEBSERVICE",
                                        "cfg_mode":"No",
                                        "slot_id":1                                [ PU2␣
↪slot id]
                                }
                        ]
                },
                "a10-url":"/axapi/v3/admin-session/oper"
    }
}
```

User Tag Filtering

The user tag filter is used by the GUI to group SSLi objects together by auto-configuring them with the **Security** string in the **user-tag** property. You can use these tags to filter your search results based on the string.

For example, when you create SSLi Services objects in the GUI for SSLi_vip_001, they will automatically be tagged with **user-tag Security** as seen in the `show run` command of the CLI:

```
!
slb server SSLi_vip_001_server_001 100.100.100.8
  user-tag Security
  port 0 tcp
  ...
!
slb service-group SSLi_vip_001_SSLi tcp
  user-tag Security
  member SSLi_vip_001_server_001 8080
  ...
!
slb template client-ssl SSLi_vip_001_client_ssl
  user-tag Security
  forward-proxy-bypass web-category health-and-medicine
  ...
```

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```
!
slb virtual-server SSLi_vip_001 0.0.0.0 acl name acl_SSLi_vip_001
  user-tag Security
  port 0 tcp
  ...
!
end
```

In the case of searching by tag to retrieve all your SLB Security servers, you can use the `user-tag=Security` filter on your GET request. In the response, you will see the output of **"user-tag":"Security"** in the SLB servers that were auto-configured with that property:

```
curl -k GET https://10.10.10.10/axapi/v3/slb/server?user-tag=Security \
-H "Content-Type:application/json" \
-H "Authorization: A10 c223169c3ab18f9e3826b9df215c2b"

#Filtered Response

{
  "server-list": [
    {
      "name":"SSLi_vip_001_server_001",
      "host":"100.100.100.8",
      "action":"enable",
      "template-server":"default",
      "health-check-disable":0,
      "conn-limit":8000000,
      "no-logging":0,
      "weight":1,
      "slow-start":0,
      "spoofing-cache":0,
      "stats-data-action":"stats-data-enable",
      "extended-stats":0,
      "uuid":"f63899d6-c91e-11e5-ae81-fa163e0b5a56",
      "user-tag":"Security",
      "port-list": [
        {
          "port-number":0,
          "protocol":"tcp",
          "range":0,
          "template-port":"default",
          "action":"enable",
          "no-ssl":0,
          "health-check-disable":1,
          "weight":1,
          "conn-limit":8000000,
          "no-logging":0,
          "stats-data-action":"stats-data-enable",
          "extended-stats":0,
          "uuid":"f63aa1cc-c91e-11e5-ae81-fa163e0b5a56",
          "a10-url":"/axapi/v3/slb/server/SSLi_vip_001_server_001/port/0+tcp"
        },
```

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```
        {
          "port-number":0,
          "protocol":"udp",
          "template-port":"default",
          "action":"enable",
          "no-ssl":0,
          "health-check-disable":1,
          "weight":1,
          "conn-limit":8000000,
          "no-logging":0,
          "stats-data-action":"stats-data-enable",
          "extended-stats":0,
          "uuid":"f63be096-c91e-11e5-ae81-fa163e0b5a56",
          "a10-url":"/axapi/v3/slb/server/SSLi_vip_001_server_001/port/0+udp"
        },
        {
          "port-number":8080,
          "protocol":"tcp",
          "range":0,
          "template-port":"default",
          "action":"enable",
          "no-ssl":0,
          "health-check-disable":1,
          "weight":1,
          "conn-limit":8000000,
          "no-logging":0,
          "stats-data-action":"stats-data-enable",
          "extended-stats":0,
          "uuid":"f63be776-c91e-11e5-ae81-fa163e0b5a56",
          "a10-url":"/axapi/v3/slb/server/SSLi_vip_001_server_001/port/8080+tcp"
        }
      ],
      "a10-url":"/axapi/v3/slb/server/SSLi_vip_001_server_001"
    }
  ]
}
```


1.2 Batching Requests

Multiple GET requests for different URI's can be issued by a POST request against `/axapi/v3/batch-get`. Using batching requests reduces the number of API calling times which improves the performance on the CLIENT side.

1.2.1 Intended Use and Limitations

- Only the POST method is allowed.
- The `schema request` call should not use the Batch-Get operation as it will result in failure.

1.2.2 Error Handling

- If one of the API calls is incorrect, its corresponding response attribute `resp` will contain the error JSON data.

Example

The following example shows how to call multiple API's in a single call:

```
    POST /axapi/v3/batch-get
    {
"batch-get-list" : [
             {"uri":"/axapi/v3/interface/ethernet/1/schema"},
             {"uri":"/axapi/v3/interface/ethernet?total=true"},
             {"uri":"/axapi/v3/interface/ethernet?start=2&count=3"},
             {"uri":"/axapi/v3/interface/ethernet?start=2&count=3&wrong-filter=xxx"},
             {"uri":"/axapi/v3/interface/ethernet/1/oper"},
             {"uri":"/axapi/v3/slb/server/s1/stats"},
             {"uri":"/axapi/v3/no-such-endpoint"}
    ]
}
```

If this request succeeds, the following response will be recieved:

```
{
  "batch-get-list": [
        {
          "uri":"/axapi/v3/interface/ethernet/1/schema",
          "resp":{
                "http-status":400,
                "status":"fail",
                  "err": {
                        "code":1023524864,
                        "msg":"JSON message is wrong."
                  }
          }
        },
        {
          "uri":"/axapi/v3/interface/ethernet?total=true",
          "resp":{
                "total-count":8
          }
        },
        {
          "uri":"/axapi/v3/interface/ethernet?start=2&count=3",
          "resp":{
                "ethernet-list": [
                  {
                        "ifnum":3,
```

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```
                        "l3-vlan-fwd-disable":0,
                        "load-interval":300,
                        "mtu":1500,
                        "trap-source":0,
                        "duplexity":"auto",
                        "speed":"auto",
                        "flow-control":0,
                        "action":"disable",
                        "uuid":"46e93848-844d-11e5-8d0b-000d480a65d0",
                        "a10-url":"/axapi/v3/interface/ethernet/3"
                  },
                  {
                        "ifnum":4,
                        "l3-vlan-fwd-disable":0,
                        "load-interval":300,
                        "mtu":1500,
                        "trap-source":0,
                        "duplexity":"auto",
                        "speed":"auto",
                        "flow-control":0,
                        "action":"disable",
                        "uuid":"46e93c8a-844d-11e5-8d0b-000d480a65d0",
                        "a10-url":"/axapi/v3/interface/ethernet/4"
                  },
                  {
                        "ifnum":5,
                        "l3-vlan-fwd-disable":0,
                        "load-interval":300,
                        "mtu":1500,
                        "trap-source":0,
                        "duplexity":"auto",
                        "speed":"auto",
                        "flow-control":0,
                        "action":"disable",
                        "uuid":"46e940c2-844d-11e5-8d0b-000d480a65d0",
                        "a10-url":"/axapi/v3/interface/ethernet/5"
                  }
                ]
          }
        },
        {
          "uri":"/axapi/v3/interface/ethernet?start=2&count=3&wrong-filter=xxx",
          "resp":{
                "http-status":400,
                "status":"fail",
                  "err": {
                        "code":1023524866,
                        "msg":"Wrong URI filter."
                 }
          }
        },
        {
```


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```
          "uri":"/axapi/v3/interface/ethernet/1/oper",
          "resp":{
                "ethernet": {
                  "oper" : {
                        "state":"DISABLED",
                        "line_protocol":"DOWN",
                        "link_type":"GigabitEthernet",
                        "mac":"000d.480a.65cf",
                        "config_speed":"auto",
                        "actual_speed":"unknown",
                        "config_duplexity":"auto",
                        "actual_duplexity":"unknown",
                        "media_type":"Copper"
                  },
                  "a10-url":"/axapi/v3/interface/ethernet/1/oper",
                  "ifnum":1
                }
          }
        },
        {
          "uri":"/axapi/v3/slb/server/s1/stats",
          "resp":{
                "server": {
                  "stats" : {
                        "curr-conn":0,
                        "total-conn":0,
                        "fwd-pkt":0,
                        "rev-pkt":0,
                        "peak-conn":0
                  },
                  "a10-url":"/axapi/v3/slb/server/s1/stats",
                  "name":"s1"
                }
          }
        },
        {
          "uri":"/axapi/v3/no-such-endpoint",
          "resp":{
                "http-status":404,
                "status":"fail",
                  "err": {
                        "code":1023525888,
                        "msg":"URI not found."
                  }
          }
        }
  ]
}
```

1.3 Status Codes

aXAPI uses three categories of HTTP status codes - 2XX, 4XX, and 5XX.

- 2XX indicates success of request.
- 4XX indicates client side error. For example, if the JSON data is incorrect.
- 5XX indicates server (ACOS device) side error.

1.3.1 Status Code List

The returned set of status codes may keep evolving but its basic categories and meanings are as follows:

200 OK

This response indicates success and also returns a response message. The response format could be JSON data, plain text, or octet binary data.

For example:

```
GET /axapi/v3/interface/Ethernet/1 returns JSON data.
POST /axapi/v3/clideploy with a show command returns plain text.
GET /axapi/v3/file/ssl-cert returns a pem file or zipped file.
```

201 CREATED

This response is the same as 200 OK with an indication that a new resource or record has been created.

204 NO CONTENT

This response indicates success without any response data. In this case, the client has no need to parse any data. Normally, operational APIs have no response data for the client to read and the 204 status code is returned to indicate the operation is executed successfully.

For example, to import a file:

```
POST /axapi/v3/file/aflex
```

202 ACCEPTED

This response indicates that the request has been accepted and there is no error for now, but the action is still in process. Normally, this status code is returned for time-consuming tasks such as upgrading. In this case, the client might need to periodically check status.

400 BAD REQUEST

This response indicates that the API does not understand the request. Incorrect JSON syntax and not matching schemas may cause this response. All JSON properties are defined by a schema file. The client needs to follow the schema definition to send a request. For example, `ip-address` is defined as string but if the client issues it as a number, this error may be caused.

401 UNAUTHORIZED

This response indicates that the request is from an untrusted client and authentication is required. In this case, the client would need to authenticate itself and resend the request. Authentication URI `/axapi/v3/auth`

403 FORBIDDEN

This response indicates that the client does not have sufficient privileges for such a request. The relative cases include RBA control, platform control, and license control.

404 NOT FOUND

This response indicates that the requested records do not exist or the APIs are not supported. For example, GET `/axapi/abc/def` has no definition attached to it.

415 UNSUPPORTED MEDIA TYPE

This response indicates that the client sends the request with the wrong data format which cannot be accepted by the ACOS device. For example, if the ACOS device can only accept "application/json" and the client sends "plain/text".

500 INTERNAL SERVER ERROR

This response indicates that because of a server side error the request cannot be processed. For example, the system is down or the system resources are used up.

CHAPTER

TWO

CONFIGURATION APIS:

2.1 aam

Objects:

2.1.1 aam

AAM related configuration

aam Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	aam
Element URI	/axapi/v3/aam
Element Attributes	aam_attributes
Partition Visibility	shared
Schema	`aam schema`

Operations Allowed:

Get Object

GET

/axapi/v3/aam

aam_attributes

aam attributes

aaa-policy-list

Type: List

Reference Object: */axapi/v3/aam/aaa-policy/{name}*

access-log

Description: access-log is a **JSON Block**. Please see below for *access-log*

Type: Object

Reference Object: */axapi/v3/aam/access-log*

auth-log

Description: auth-log is a **JSON Block**. Please see below for *auth-log*

Type: Object

Reference Object: */axapi/v3/aam/auth-log*

authentication

Description: authentication is a **JSON Block**. Please see below for *authentication*

Type: Object

Reference Object: */axapi/v3/aam/authentication*

authorization

Description: authorization is a **JSON Block**. Please see below for *authorization*

Type: Object

Reference Object: */axapi/v3/aam/authorization*

jwt-authorization-list

Type: List

Reference Object: */axapi/v3/aam/jwt-authorization/{name}*

rdns

Description: rdns is a **JSON Block**. Please see below for *rdns*

Type: Object

Reference Object: */axapi/v3/aam/rdns*

resource-usage

Description: resource-usage is a **JSON Block**. Please see below for *resource-usage*

Type: Object

Reference Object: */axapi/v3/aam/resource-usage*

resource-usage

Specification	Value
Type	*object*

identity-provider-limit

Description Total Number of Identity Provider exists in the System

Type: number

Range: 64-256

Default: 64

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

access-log

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

jwt-authorization-list

Specification	Value
Type	*list*
Block object keys	

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

exp-claim-requried

Description Specify the exp claim is required for JWT authorization

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

jwt-cache-enable

Description Enable caching authorized JWT token and skip verification and authorization for cached tokens

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

jwt-exp-default

Description Specify the default token expiration if exp claim is not available (default 1800)

Type: number

Range: 1-86400

jwt-forwarding

Description Specify JWT token will not be stripped while forwarding client request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-level

Description '0': log disable; '1': only log authorzation fail (default); '2': only log authorization success; '3': log all;

Type: string

Supported Values: 0, 1, 2, 3

name

Description Specify JWT authorization template name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-jwt-authorization-tmpl*

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

verification-cert

Description Specify the certificate to verify JWT token signature

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-cert, verification-jwks, and verification-secret are mutually exclusive

verification-jwks

Description Specify the jwks file to verify JWT token signature

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-jwks, verification-cert, and verification-secret are mutually exclusive

verification-secret

Description Specify secret for verify JWT token signature

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-secret, verification-cert, and verification-jwks are mutually exclusive

jwt-authorization-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'jwt-request': JWT Request; 'jwt-authorize-success': JWT Authorize Success; 'jwt-authorize-failure': JWT Authorize Failure; 'jwt-missing-token': JWT Missing Token; 'jwt-missing-claim': JWT Missing Claim; 'jwt-token-expired': JWT Token Expired; 'jwt-signature-failure': JWT Signature Failure; 'jwt-other-error': JWT Other Error;

Type: string

Supported Values: all, jwt-request, jwt-authorize-success, jwt-authorize-failure, jwt-missing-token, jwt-missing-claim, jwt-token-expired, jwt-signature-failure, jwt-other-error

authentication

Specification	Value
Type	*object*

account

Description: account is a **JSON Block**. Please see below for *authentication_account*

Type: Object

Reference Object: */axapi/v3/aam/authentication/account*

captcha

Description: captcha is a **JSON Block**. Please see below for *authentication_captcha*

Type: Object

Reference Object: */axapi/v3/aam/authentication/captcha*

file

Description: file is a **JSON Block**. Please see below for *authentication_file*

Type: Object

Reference Object: */axapi/v3/aam/authentication/file*

global

Description: global is a **JSON Block**. Please see below for *authentication_global*

Type: Object

Reference Object: */axapi/v3/aam/authentication/global*

jwks

Description: jwks is a **JSON Block**. Please see below for *authentication_jwks*

Type: Object

Reference Object: */axapi/v3/aam/authentication/jwks*

jwt-list

Type: List

Reference Object: */axapi/v3/aam/authentication/jwt/{name}*

log

Description: log is a **JSON Block**. Please see below for *authentication_log*

Type: Object

Reference Object: */axapi/v3/aam/authentication/log*

logon

Description: logon is a **JSON Block**. Please see below for *authentication_logon*

Type: Object

Reference Object: */axapi/v3/aam/authentication/logon*

oauth

Description: oauth is a **JSON Block**. Please see below for *authentication_oauth*

Type: Object

Reference Object: */axapi/v3/aam/authentication/oauth*

password-retry

Description: password-retry is a **JSON Block**. Please see below for *authentication_password-retry*

Type: Object

Reference Object: */axapi/v3/aam/authentication/password-retry*

portal-list

Type: List

Reference Object: */axapi/v3/aam/authentication/portal/{name}*

relay

Description: relay is a **JSON Block**. Please see below for *authentication_relay*

Type: Object

Reference Object: */axapi/v3/aam/authentication/relay*

saml

Description: saml is a **JSON Block**. Please see below for *authentication_saml*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml*

server

Description: server is a **JSON Block**. Please see below for *authentication_server*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server*

service-group-list

Type: List

Reference Object: */axapi/v3/aam/authentication/service-group/{name}*

session

Description: session is a **JSON Block**. Please see below for *authentication_session*

Type: Object

Reference Object: */axapi/v3/aam/authentication/session*

session-attr

Description: session-attr is a **JSON Block**. Please see below for *authentication_session-attr*

Type: Object

Reference Object: */axapi/v3/aam/authentication/session-attr*

template-list

Type: List

Reference Object: */axapi/v3/aam/authentication/template/{name}*

authentication_jwt-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'redirect': redirect JWT to specific URI; 'relay': relay JWT to back-end;

Type: string

Supported Values: redirect, relay

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

issuer

Description Specify JWT issuer claim value

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

jwt-relay-uri

Description Specify JWT relay URI (for relay action)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

name

Description Specify JWT issuer template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-string

Description The JWT signature secret

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

signature-secret

Description Specify the JWT signature secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-lifetime

Description Specify JWT token lifetime (Specify lifetime (in seconds), default is 300.)

Type: number

Range: 0-86400

Default: 300

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_account

Specification	Value
Type	*object*

kerberos-spn-list

Type: List

Reference Object: */axapi/v3/aam/authentication/account/kerberos-spn/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_account_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response;

Type: string

Supported Values: all, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other

authentication_account_kerberos-spn-list

Specification	Value
Type	*list*
Block object keys	

account

Description Specify domain account for SPN

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.)

name

Description Specify AD account name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

password

Description Specify password of domain account

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

realm

Description Specify Kerberos realm

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-string

Description Password of AD account

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

service-principal-name

Description Specify service principal name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_portal-list

Specification	Value
Type	*list*
Block object keys	

change-password

Description: change-password is a **JSON Block**. Please see below for *authentication_portal-list_change-password*

Type: Object

Reference Object: */axapi/v3/aam/authentication/portal/{name}/change-password*

logo-cfg

Description: logo-cfg is a **JSON Block**. Please see below for *authentication_portal-list_logo-cfg*

Type: Object

logon

Description: logon is a **JSON Block**. Please see below for *authentication_portal-list_logon*

Type: Object

Reference Object: */axapi/v3/aam/authentication/portal/{name}/logon*

logon-fail

Description: logon-fail is a **JSON Block**. Please see below for *authentication_portal-list_logon-fail*

Type: Object

Reference Object: */axapi/v3/aam/authentication/portal/{name}/logon-fail*

name

Description 'default-portal': Default portal configuration;

Type: string

Supported Values: default-portal

notify-change-password

Description: notify-change-password is a **JSON Block**. Please see below for *authentication_portal-list_notify-change-password*

Type: Object

Reference Object: */axapi/v3/aam/authentication/portal/{name}/notify-change-password*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_portal-list_logon-fail

Specification	Value
Type	*object*

background

Description: background is a **JSON Block**. Please see below for *authentication_portal-list_logon-fail_background*

Type: Object

fail-msg-cfg

Description: fail-msg-cfg is a **JSON Block**. Please see below for *authentication_portal-list_logon-fail_fail-msg-cfg*

Type: Object

title-cfg

Description: title-cfg is a **JSON Block**. Please see below for *authentication_portal-list_logon-fail_title-cfg*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_portal-list_logon-fail_fail-msg-cfg

Specification	Value
Type	*object*

fail-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: fail-color-name and fail-color-value are mutually exclusive

fail-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: fail-color-value and fail-color-name are mutually exclusive

fail-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: fail-face and fail-font-custom are mutually exclusive

fail-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fail-font-custom and fail-face are mutually exclusive

fail-msg

Description Configure logon failure message in default logon fail page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fail-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

fail-text

Description Specify logon failure message (Default: Login Failed!!)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_portal-list_logon-fail_title-cfg

Specification	Value
Type	*object*

title

Description Configure title in default logon fail page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

title-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: title-color-name and title-color-value are mutually exclusive

title-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: title-color-value and title-color-name are mutually exclusive

title-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: title-face and title-font-custom are mutually exclusive

title-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: title-font-custom and title-face are mutually exclusive

title-size

Description Specify font size (Default: 5)

Type: number

Range: 1-7

Default: 5

title-text

Description Specify title (Default: Try Too Many Times)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_portal-list_logon-fail_background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

authentication_portal-list_logo-cfg

Specification	Value
Type	*object*

height

Description Specify logo image height (Default: 71)

Type: number

Range: 50-400

Default: 71

logo

Description Specify logo image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

width

Description Specify logo image width (Default: 134)

Type: number

Range: 50-400

Default: 134

authentication_portal-list_notify-change-password

Specification	Value
Type	*object*

background

Description: background is a **JSON Block**. Please see below for *authentication_portal-list_notify-change-password_background*

Type: Object

cfm-pwd-cfg

Description: cfm-pwd-cfg is a **JSON Block**. Please see below for *authentication_portal-list_notify-change-password_cfm-pwd-cfg*

Type: Object

change-text

Description Specify change button text in default change password notification page (Default: Change)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

change-url

Description Specify change password action URL in default change password notification page (Default: /notify_change.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

confirm-password-var

Description Specify confirm password variable name in default change password notification page (Default: cp_cfm_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

continue-text

Description Specify continue button text in default change password notification page (Default: Continue)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

continue-url

Description Specify continue action URL in default change password notification page (Default: /continue.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-password-var

Description Specify new password variable name in default change password notification page (Default: cp_new_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pwd-cfg

Description: new-pwd-cfg is a **JSON Block**. Please see below for *authentication_portal-list_notify-change-password_new-pwd-cfg*

Type: Object

old-password-var

Description Specify old password variable name in default change password notification page (Default: cp_old_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

old-pwd-cfg

Description: old-pwd-cfg is a **JSON Block**. Please see below for *authentication_portal-list_notify-change-password_old-pwd-cfg*

Type: Object

username-cfg

Description: username-cfg is a **JSON Block**. Please see below for *authentication_portal-list_notify-change-password_username-cfg*

Type: Object

username-var

Description Specify username variable name in default change password notification page (Default: cp_usr)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_portal-list_notify-change-password_new-pwd-cfg

Specification	Value
Type	*object*

new-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: new-color-name and new-color-value are mutually exclusive

new-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: new-color-value and new-color-name are mutually exclusive

new-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: new-face and new-font-custom are mutually exclusive

new-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-font-custom and new-face are mutually exclusive

new-password

Description Configure new password text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

new-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

new-text

Description Specify new password text (Default: New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_portal-list_notify-change-password_old-pwd-cfg

Specification	Value
Type	*object*

old-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: old-color-name and old-color-value are mutually exclusive

old-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: old-color-value and old-color-name are mutually exclusive

old-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: old-face and old-font-custom are mutually exclusive

old-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: old-font-custom and old-face are mutually exclusive

old-password

Description Configure old password text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

old-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

old-text

Description Specify old password text (Default: Old Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_portal-list_notify-change-password_background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

authentication_portal-list_notify-change-password_cfm-pwd-cfg

Specification	Value
Type	*object*

cfm-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: cfm-color-name and cfm-color-value are mutually exclusive

cfm-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: cfm-color-value and cfm-color-name are mutually exclusive

cfm-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: cfm-face and cfm-font-custom are mutually exclusive

cfm-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: cfm-font-custom and cfm-face are mutually exclusive

cfm-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

cfm-text

Description Specify confirm password text (Default: Confirm New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

confirm-password

Description Configure confirm password text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication_portal-list_notify-change-password_username-cfg

Specification	Value
Type	*object*

user-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: user-color-name and user-color-value are mutually exclusive

user-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: user-color-value and user-color-name are mutually exclusive

user-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: user-face and user-font-custom are mutually exclusive

user-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: user-font-custom and user-face are mutually exclusive

user-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

user-text

Description Specify username text (Default: Username)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username

Description Configure username text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication_portal-list_logon

Specification	Value
Type	*object*

action-url

Description Specify form action URL in default logon page (Default: /logon.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

background

Description: background is a **JSON Block**. Please see below for *authentication_portal-list_logon_background*

Type: Object

captcha-type

Description 'reCAPTCHAv2-checkbox': Google reCAPTCHAv2 Checkbox; 'reCAPTCHAv2-invisible': Google reCAPTCHAv2 Invisible; 'reCAPTCHAv3': Google reCAPTCHAv3;

Type: string

Supported Values: reCAPTCHAv2-checkbox, reCAPTCHAv2-invisible, reCAPTCHAv3

enable-CAPTCHA

Description Enable CAPTCHA in deafult logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-passcode

Description Enable passcode field in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

fail-msg-cfg

Description: fail-msg-cfg is a **JSON Block**. Please see below for *authentication_portal-list_logon_fail-msg-cfg*

Type: Object

passcode-cfg

Description: passcode-cfg is a **JSON Block**. Please see below for *authentication_portal-list_logon_passcode-cfg*

Type: Object

passcode-var

Description Specify passcode variable name in default logon page (Default: passcode)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

password-cfg

Description: password-cfg is a **JSON Block**. Please see below for *authentication_portal-list_logon_password-cfg*

Type: Object

password-var

Description Specify password variable name in default logon page (Default: pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

reCAPTCHA-cfg

Description: reCAPTCHA-cfg is a **JSON Block**. Please see below for *authentication_portal-list_logon_reCAPTCHA-cfg*

Type: Object

site-key-string

Description Site key string

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

submit-text

Description Specify submit button text in default logon page (Default: Log In)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username-cfg

Description: username-cfg is a **JSON Block**. Please see below for *authentication_portal-list_logon_username-cfg*

Type: Object

username-var

Description Specify username variable name in default logon page (Default: user)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_portal-list_logon_passcode-cfg

Specification	Value
Type	*object*

passcode

Description Configure passcode text in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

passcode-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

passcode-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: passcode-color-name and passcode-color-value are mutually exclusive

passcode-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: passcode-color-value and passcode-color-name are mutually exclusive

passcode-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: passcode-face and passcode-font-custom are mutually exclusive

passcode-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

passcode-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: passcode-font-custom and passcode-face are mutually exclusive

passcode-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

passcode-text

Description Specify passcode text (Default: Passcode)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_portal-list_logon_reCAPTCHA-cfg

Specification	Value
Type	*object*

reCAPTCHA-action

Description Specify reCAPTCHA action (Specify action string, only accept alphanumeric, underscore, and slash (Default: A10_DEFAULT_LOGON))

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: A10_DEFAULT_LOGON

reCAPTCHA-badge

Description 'bottom-left': bottom left corner; 'bottom-right': bottom right corner;

Type: string

Supported Values: bottom-left, bottom-right

Default: bottom-right

reCAPTCHA-size

Description 'normal': normal size; 'compact': compact size;

Type: string

Supported Values: normal, compact

Default: normal

reCAPTCHA-theme

Description 'light': light theme; 'dark': dark theme;

Type: string

Supported Values: light, dark

Default: light

authentication_portal-list_logon_background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

authentication_portal-list_logon_fail-msg-cfg

Specification	Value
Type	*object*

authz-fail-msg

Description Configure authorization failure message in default logon page, its text attributes follow fail-msg's (Specify authorization failure message (Default: Authorization failed. Please contact your system administrator.))

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

fail-color

Description Specify font color (Default: red)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: red

Mutual Exclusion: fail-color-name and fail-color-value are mutually exclusive

fail-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: fail-color-value and fail-color-name are mutually exclusive

fail-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: fail-face and fail-font-custom are mutually exclusive

fail-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fail-font-custom and fail-face are mutually exclusive

fail-msg

Description Configure login failure message in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fail-size

Description Specify font size (Default: 5)

Type: number

Range: 1-7

Default: 5

fail-text

Description Specify login failure message (Default: Invalid username or password. Please try again.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_portal-list_logon_password-cfg

Specification	Value
Type	*object*

pass-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

pass-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: pass-color-name and pass-color-value are mutually exclusive

pass-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: pass-color-value and pass-color-name are mutually exclusive

pass-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: pass-face and pass-font-custom are mutually exclusive

pass-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

pass-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: pass-font-custom and pass-face are mutually exclusive

pass-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

pass-text

Description Specify password text (Default: Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

password

Description Configure password text in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication_portal-list_logon_username-cfg

Specification	Value
Type	*object*

user-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: user-color-name and user-color-value are mutually exclusive

user-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: user-color-value and user-color-name are mutually exclusive

user-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: user-face and user-font-custom are mutually exclusive

user-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: user-font-custom and user-face are mutually exclusive

user-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

user-text

Description Specify username text (Default: User Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username

Description Configure username text in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication_portal-list_change-password

Specification	Value
Type	*object*

action-url

Description Specify form action URL in default change password page (Default: /change.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

background

Description: background is a **JSON Block**. Please see below for *authentication_portal-list_change-password_background*

Type: Object

cfm-pwd-cfg

Description: cfm-pwd-cfg is a **JSON Block**. Please see below for *authentication_portal-list_change-password_cfm-pwd-cfg*

Type: Object

confirm-password-var

Description Specify confirm password variable name in default change password page (Default: cp_cfm_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-password-var

Description Specify new password variable name in default change password page (Default: cp_new_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pwd-cfg

Description: new-pwd-cfg is a **JSON Block**. Please see below for *authentication_portal-list_change-password_new-pwd-cfg*

Type: Object

old-password-var

Description Specify old password variable name in default change password page (Default: cp_old_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

old-pwd-cfg

Description: old-pwd-cfg is a **JSON Block**. Please see below for *authentication_portal-list_change-password_old-pwd-cfg*

Type: Object

reset-text

Description Specify reset button text in default change password page (Default: Reset)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

submit-text

Description Specify submit button text in default change password page (Default: Submit)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

title-cfg

Description: title-cfg is a **JSON Block**. Please see below for *authentication_portal-list_change-password_title-cfg*

Type: Object

username-cfg

Description: username-cfg is a **JSON Block**. Please see below for *authentication_portal-list_change-password_username-cfg*

Type: Object

username-var

Description Specify username variable name in default change password page (Default: cp_usr)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_portal-list_change-password_new-pwd-cfg

Specification	Value
Type	*object*

new-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: new-color-name and new-color-value are mutually exclusive

new-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: new-color-value and new-color-name are mutually exclusive

new-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: new-face and new-font-custom are mutually exclusive

new-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-font-custom and new-face are mutually exclusive

new-password

Description Configure new password text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

new-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

new-text

Description Specify new password text (Default: New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_portal-list_change-password_title-cfg

Specification	Value
Type	*object*

title

Description Configure title in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

title-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: title-color-name and title-color-value are mutually exclusive

title-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: title-color-value and title-color-name are mutually exclusive

title-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: title-face and title-font-custom are mutually exclusive

title-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: title-font-custom and title-face are mutually exclusive

title-size

Description Specify font size (Default: 5)

Type: number

Range: 1-7

Default: 5

title-text

Description Specify title (Default: Please Change Your Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_portal-list_change-password_old-pwd-cfg

Specification	Value
Type	*object*

old-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: old-color-name and old-color-value are mutually exclusive

old-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: old-color-value and old-color-name are mutually exclusive

old-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: old-face and old-font-custom are mutually exclusive

old-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: old-font-custom and old-face are mutually exclusive

old-password

Description Configure old password text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

old-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

old-text

Description Specify old password text (Default: Old Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_portal-list_change-password_background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

authentication_portal-list_change-password_cfm-pwd-cfg

Specification	Value
Type	*object*

cfm-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: cfm-color-name and cfm-color-value are mutually exclusive

cfm-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: cfm-color-value and cfm-color-name are mutually exclusive

cfm-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: cfm-face and cfm-font-custom are mutually exclusive

cfm-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: cfm-font-custom and cfm-face are mutually exclusive

cfm-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

cfm-text

Description Specify confirm password text (Default: Confirm New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

confirm-password

Description Configure confirm password text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication_portal-list_change-password_username-cfg

Specification	Value
Type	*object*

user-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: user-color-name and user-color-value are mutually exclusive

user-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: user-color-value and user-color-name are mutually exclusive

user-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: user-face and user-font-custom are mutually exclusive

user-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: user-font-custom and user-face are mutually exclusive

user-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

user-text

Description Specify username text (Default: Username)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username

Description Configure username text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication_log

Specification	Value
Type	*object*

enable

Description Enable authentication logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

facility

Description 'local0': Local use; 'local1': Local use; 'local2': Local use; 'local3': Local use; 'local4': Local use; 'local5': Local use; 'local6': Local use; 'local7': Local use;

Type: string

Supported Values: local0, local1, local2, local3, local4, local5, local6, local7

Default: local0

format

Description 'syslog': Syslog Format (default); 'cef': Common Event Format;

Type: string

Supported Values: syslog, cef

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_relay

Specification	Value
Type	*object*

form-based

Description: form-based is a **JSON Block**. Please see below for *authentication_relay_form-based*

Type: Object

Reference Object: */axapi/v3/aam/authentication/relay/form-based*

http-basic

Description: http-basic is a **JSON Block**. Please see below for *authentication_relay_http-basic*

Type: Object

Reference Object: */axapi/v3/aam/authentication/relay/http-basic*

kerberos

Description: kerberos is a **JSON Block**. Please see below for *authentication_relay_kerberos*

Type: Object

Reference Object: */axapi/v3/aam/authentication/relay/kerberos*

oauth-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/oauth/{name}*

saml-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/saml/{name}*

ws-federation-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/ws-federation/{name}*

authentication_relay_form-based

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/form-based/instance/{name}*

authentication_relay_form-based_instance-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify form-based authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-form-inst-tmpl*

request-uri-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri/{match-type}+{uri}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_relay_form-based_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'invalid_srv_rsp': Invalid Server Response; 'post_fail': POST Failed; 'invalid_cred': Invalid Credential; 'bad_req': Bad Request; 'not_fnd': Not Found; 'error': Internal Server Error; 'other_error': Other Error;

Type: string

Supported Values: all, request, invalid_srv_rsp, post_fail, invalid_cred, bad_req, not_fnd, error, other_error

authentication_relay_form-based_instance-list_request-uri-list

Specification	Value
Type	*list*
Block object keys	

action-uri

Description Specify the action-URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

cookie

Description: cookie is a **JSON Block**. Please see below for *authentication_relay_form-based_instance-list_request-uri-list_cookie*

Type: Object

domain-variable

Description Specify domain variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

max-packet-collect-size

Description Specify the max packet collection size in bytes, default is 1MB

Type: number

Range: 1024-2097152

Default: 1048576

other-variables

Description Specify other variables (n1=v1&n2=v2) in form relay

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

password-variable

Description Specify password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uri

Description Specify request URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-variable

Description Specify username variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_relay_form-based_instance-list_request-uri-list_cookie

Specification	Value
Type	*object*

cookie-value

Description: cookie-value is a **JSON Block**. Please see below for *authentication_relay_form-based_instance-list_request-uri-list_cookie_cookie-value*

Type: Object

authentication_relay_form-based_instance-list_request-uri-list_cookie_cookie-value

Specification	Value
Type	*object*

cookie-value

Description Specify cookie in POST packet

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

authentication_relay_ws-federation-list

Specification	Value
Type	*list*
Block object keys	

application-server

Description 'sharepoint': Microsoft SharePoint; 'exchange-owa': Microsoft Exchange OWA;

Type: string

Supported Values: sharepoint, exchange-owa

authentication-uri

Description Specify WS-Federation relay URI, default is /_trust/

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

name

Description Specify WS-Federation authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-ws-fed-tmpl*

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_relay_ws-federation-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'success': Success; 'failure': Failure;

Type: string

Supported Values: all, request, success, failure

authentication_relay_oauth-list

Specification	Value
Type	*list*
Block object keys	

all

Description All URI can be relay

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: all and match-type are mutually exclusive

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

Mutual Exclusion: match-type and all are mutually exclusive

match-uri

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

name

Description Specify oauth authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

relay-type

Description 'access-token': Relay access token to backend; 'id-token': Relay JWT to backend;

Type: string

Supported Values: access-token, id-token

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_relay_oauth-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'relay-req': some help string; 'relay-succ': some help string; 'relay-fail': some help string;

Type: string

Supported Values: all, relay-req, relay-succ, relay-fail

authentication_relay_saml-list

Specification	Value
Type	*list*
Block object keys	

idp-auth-uri

Description Specify the URI for IDP to handle SAML authentication request

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

match-uri

Description Match URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

method

Description 'get-from-backend': Get RelayState parameter from backend server; 'request-uri': Use the (URL encoded) current request-uri as the RelayState;

Type: string

Supported Values: get-from-backend, request-uri

Mutual Exclusion: method and value are mutually exclusive

name

Description Specify SAML authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

relay-acs-uri

Description Specify the backend server assertion consuming service URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

retry-number

Description Specify how many continuous fail for SAML relay will trigger. Default will not retry.

Type: number

Range: 0-10

Default: 0

sampling-enable

Type: List

server-cookie-name

Description Specify the cookie name that used by backend server for authenticated users

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Use the fixed string as the RelayState

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: value and method are mutually exclusive

authentication_relay_saml-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'success': Success; 'failure': Failure; 'error': Error;

Type: string

Supported Values: all, request, success, failure, error

authentication_relay_kerberos

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/kerberos/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_relay_kerberos_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-send': Total Request Send; 'response-get': Total Response Get; 'timeout-error': Total Timeout; 'other-error': Total Other Error; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response; 'job-start-error': Total Job Start Error; 'polling-control-error': Total Polling Control Error;

Type: string

Supported Values: all, request-send, response-get, timeout-error, other-error, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error

authentication_relay_kerberos_instance-list

Specification	Value
Type	*list*
Block object keys	

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

kerberos-account

Description Specify the kerberos account name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

kerberos-kdc

Description Specify the kerberos kdc ip or host name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: kerberos-kdc and kerberos-kdc-service-group are mutually exclusive

kerberos-kdc-service-group

Description Specify an authentication service group as multiple KDCs

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: kerberos-kdc-service-group and kerberos-kdc are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

kerberos-realm

Description Specify the kerberos realm

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

name

Description Specify Kerberos authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

password

Description Specify password of Kerberos password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port

Description Specify The KDC port, default is 88

Type: number

Range: 1-65535

Default: 88

sampling-enable

Type: List

secret-string

Description The kerberos client password

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

timeout

Description Specify timeout for kerberos transport, default is 10 seconds (The timeout, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_relay_kerberos_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-send': Request Send; 'response-receive': Response Receive; 'current-requests-of-user': Current Pending Requests of User; 'tickets': Tickets;

Type: string

Supported Values: all, request-send, response-receive, current-requests-of-user, tickets

authentication_relay_http-basic

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/http-basic/instance/{name}*

authentication_relay_http-basic_instance-list

Specification	Value
Type	*list*
Block object keys	

domain

Description Specify user domain, default is null

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-format

Description 'user-principal-name': Append domain with User Principal Name format. (e.g. user@domain); 'down-level-logon-name': Append domain with Down-Level Logon Name format. (e.g. domainuser);

Type: string

Supported Values: user-principal-name, down-level-logon-name

Default: down-level-logon-name

name

Description Specify HTTP basic authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-hbase-inst-tmpl*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_relay_http-basic_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'success': Success; 'no-creds': No Credential; 'bad-req': Bad Request; 'unauth': Unauthorized; 'forbidden': Forbidden; 'not-found': Not Found; 'server-error': Internal Server Error; 'unavailable': Service Unavailable;

Type: string

Supported Values: all, success, no-creds, bad-req, unauth, forbidden, not-found, server-error, unavailable

authentication_jwks

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_session-attr

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_logon

Specification	Value
Type	*object*

form-based-list

Type: List

Reference Object: */axapi/v3/aam/authentication/logon/form-based/{name}*

http-authenticate

Description: http-authenticate is a **JSON Block**. Please see below for *authentication_logon_http-authenticate*

Type: Object

Reference Object: */axapi/v3/aam/authentication/logon/http-authenticate*

authentication_logon_form-based-list

Specification	Value
Type	*list*
Block object keys	

account-lock

Description Lock the account when the failed logon attempts is exceeded

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

challenge-variable

Description Specify challenge variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-page-cfg

Description: cp-page-cfg is a **JSON Block**. Please see below for *authentication_logon_form-based-list_cp-page-cfg*

Type: Object

csp-support

Description: csp-support is a **JSON Block**. Please see below for *authentication_logon_form-based-list_csp-support*

Type: Object

duration

Description The time an account remains locked in seconds (default 1800)

Type: number

Range: 1-86400

Default: 1800

hsts-timeout

Description Set HSTS policy expired timeout in seconds, 0 means to disable HSTS policy

Type: number

Range: 0-315360000

logon-page-cfg

Description: logon-page-cfg is a **JSON Block**. Please see below for *authentication_logon_form-based-list_logon-page-cfg*

Type: Object

name

Description Specify form-based authentication logon name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pin-variable

Description Specify new-pin variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-variable

Description Specify next-token variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

notify-cp-page-cfg

Description: notify-cp-page-cfg is a **JSON Block**. Please see below for *authentication_logon_form-based-list_notify-cp-page-cfg*

Type: Object

portal

Description: portal is a **JSON Block**. Please see below for *authentication_logon_form-based-list_portal*

Type: Object

retry

Description Maximum number of consecutive failed logon attempts (default 3)

Type: number

Range: 1-32

Default: 3

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_logon_form-based-list_csp-support

Specification	Value
Type	*object*

none

Description Set CSP frame-ancestors to none (also X-Frame-Options deny)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: none, self, and specificURI are mutually exclusive

optional-second-URI

Description Set optional second customized CSP URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

self

Description Set CSP frame-ancestors to self (also X-Frame-Options same-origin)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: self and none are mutually exclusive

specificURI

Description Set customized CSP frame-ancestors (maximum 2 URIs can be set)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: specificURI and none are mutually exclusive

authentication_logon_form-based-list_notify-cp-page-cfg

Specification	Value
Type	*object*

notifychangepassword-change-url

Description Specify change password action url for notifychangepassword form

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

notifychangepassword-continue-url

Description Specify continue action url for notifychangepassword form

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

authentication_logon_form-based-list_portal

Specification	Value
Type	*object*

challenge-page

Description Specify challenge page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-page, new-pin-page, and next-token-page are mutually exclusive

changepasswordpage

Description Specify change password page name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

default-portal

Description Use default portal

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: default-portal and portal-name are mutually exclusive

failpage

Description Specify logon fail page name (portal fail page name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logon

Description Specify logon page name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pin-page

Description Specify new PIN page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-pin-page and challenge-page are mutually exclusive

next-token-page

Description Specify next token page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: next-token-page and challenge-page are mutually exclusive

notifychangepasswordpage

Description Specify change password notification page name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

portal-name

Description Specify portal name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: portal-name and default-portal are mutually exclusive

authentication_logon_form-based-list_logon-page-cfg

Specification	Value
Type	*object*

action-url

Description Specify form submission action url

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

authz-failure-message

Description Specify authorization failure message shown in logon page (Specify error string, default is "Authorization failed. Please contact your system administrator.")

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

captcha-variable

Description Specify captcha variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

disable-change-password-link

Description Don't display change password link on logon page forcibly even backend authentication server supports it (LDAP or Kerberos)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

login-failure-message

Description Specify login failure message shown in logon page (Specify error string, default is “Invalid username or password. Please try again.”)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

passcode-variable

Description Specify passcode variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

password-variable

Description Specify password variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username-variable

Description Specify username variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_logon_form-based-list_cp-page-cfg

Specification	Value
Type	*object*

changepassword-url

Description Specify changepassword form submission action url (changepassword action url)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

cp-cfm-pwd-enum

Description 'changepassword-password-confirm-variable': Specify password confirm variable name in form submission;

Type: string

Supported Values: changepassword-password-confirm-variable

cp-cfm-pwd-var

Description Specify password confirm variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-new-pwd-enum

Description 'changepassword-new-password-variable': Specify new password variable name in form submission;

Type: string

Supported Values: changepassword-new-password-variable

cp-new-pwd-var

Description Specify new password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-old-pwd-enum

Description 'changepassword-old-password-variable': Specify old password variable name in form submission;

Type: string

Supported Values: changepassword-old-password-variable

cp-old-pwd-var

Description Specify old password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-user-enum

Description 'changepassword-username-variable': Specify username variable name in form submission;

Type: string

Supported Values: changepassword-username-variable

cp-user-var

Description Specify username variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_logon_http-authenticate

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}*

authentication_logon_http-authenticate_instance-list

Specification	Value
Type	*list*
Block object keys	

account-lock

Description Lock the account when the failed logon attempts is exceeded

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-method

Description: auth-method is a **JSON Block**. Please see below for *authentication_logon_http-authenticate_instance-list_auth-method*

Type: Object

duration

Description The time an account remains locked in seconds (default 1800)

Type: number

Range: 1-86400

Default: 1800

hsts-timeout

Description Set HSTS policy expired timeout in seconds, 0 means to disable HSTS policy

Type: number

Range: 0-315360000

name

Description Specify HTTP-Authenticate logon name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-logon-http-ins-tmpl*

retry

Description Maximum number of consecutive failed logon attempts (default 3)

Type: number

Range: 1-32

Default: 3

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_logon_http-authenticate_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'spn_krb_request': SPN Kerberos Request; 'spn_krb_success': SPN Kerberos Success; 'spn_krb_faiure': SPN Kerberos Failure;

Type: string

Supported Values: all, spn_krb_request, spn_krb_success, spn_krb_faiure

authentication_logon_http-authenticate_instance-list_auth-method

Specification	Value
Type	*object*

basic

Description: basic is a **JSON Block**. Please see below for *authentication_logon_http-authenticate_instance-list_auth-method_basic*

Type: Object

negotiate

Description: negotiate is a **JSON Block**. Please see below for *authentication_logon_http-authenticate_instance-list_auth-method_negotiate*

Type: Object

authentication_logon_http-authenticate_instance-list_auth-method_negotiate

Specification	Value
Type	*object*

negotiate-enable

Description Enable SPENGO logon

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication_logon_http-authenticate_instance-list_auth-method_basic

Specification	Value
Type	*object*

basic-enable

Description Enable Basic logon

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

basic-realm

Description Specify realm for basic logon

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

challenge-page

Description Specify challenge page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-page and new-pin-page are mutually exclusive

challenge-response-form

Description Specify challenge-response form for RSA-RADIUS authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

challenge-variable

Description Specify challenge variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pin-page

Description Specify new PIN page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-pin-page and challenge-page are mutually exclusive

new-pin-variable

Description Specify new PIN variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-page

Description Specify next-token page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-variable

Description Specify next-token variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_service-group-list

Specification	Value
Type	*list*
Block object keys	

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable health check

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

lb-method

Description 'round-robin': Round robin on server level;

Type: string

Supported Values: round-robin

member-list

Type: List

Reference Object: */axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}*

name

Description Specify AAM service group name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-service-group-tmpl*

protocol

Description 'tcp': TCP AAM service; 'udp': UDP AAM service;

Type: string

Supported Values: tcp, udp

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_service-group-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'server_selection_fail_drop': Drops due to Service selection failure; 'server_selection_fail_reset': Resets sent out for Service selection failure; 'service_peak_conn': Peak connection count for the Service Group; 'service_healthy_host': Service Group healthy host count; 'service_unhealthy_host': Service Group unhealthy host count; 'service_req_count': Service Group request count; 'service_resp_count': Service Group response count; 'service_resp_2xx': Service Group response 2xx count; 'service_resp_3xx': Service Group response 3xx count; 'service_resp_4xx': Service Group response 4xx count; 'service_resp_5xx': Service Group response 5xx count; 'service_curr_conn_overflow': Current connection counter overflow count;

Type: string

Supported Values: all, server_selection_fail_drop, server_selection_fail_reset, service_peak_conn, service_healthy_host, service_unhealthy_host, service_req_count, service_resp_count, service_resp_2xx, service_resp_3xx, service_resp_4xx, service_resp_5xx, service_curr_conn_overflow

authentication_service-group-list_member-list

Specification	Value
Type	*list*
Block object keys	

member-priority

Description Priority of Port in the Group

Type: number

Range: 1-16

member-state

Description 'enable': Enable member service port; 'disable': Disable member service port;

Type: string

Supported Values: enable, disable

Default: enable

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-service-group-mem-tmpl*

port

Description Port number

Type: number

Range: 1-65534

Default: 65534

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_service-group-list_member-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_fwd_bytes': Bytes processed in forward direction; 'total_fwd_pkts': Packets processed in forward direction; 'total_rev_bytes': Bytes processed in reverse direction; 'total_rev_pkts': Packets processed in reverse direction; 'total_conn': Total established connections; 'total_rev_pkts_inspected': Total reverse packets inspected; 'total_rev_pkts_inspected_status_code_2xx': Total reverse packets inspected status code 2xx; 'total_rev_pkts_inspected_status_code_non_5xx': Total reverse packets inspected status code non 5xx; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total requests successful; 'peak_conn': some help string; 'response_time': Response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time; 'curr_ssl_conn': Current SSL connections; 'total_ssl_conn': Total SSL connections; 'curr_conn_overflow': Current connection counter overflow count;

Type: string

Supported Values: all, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_conn, total_rev_pkts_inspected, total_rev_pkts_inspected_status_code_2xx, total_rev_pkts_inspected_status_code_non_5xx, curr_req, total_req, total_req_succ, peak_conn, response_time, fastest_rsp_time, slowest_rsp_time, curr_ssl_conn, total_ssl_conn, curr_conn_overflow

authentication_global

Specification	Value
Type	*object*

max-auth-resp-size

Description Specify the max auth resp size in bytes(from authd to a10lb), default is 64KB

Type: number

Range: 2048-131072

Default: 65536

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'requests': Total Authentication Request; 'responses': Total Authentication Response; 'misses': Total Authentication Request Missed; 'ocsp-stapling-requests-to-a10authd': Total OCSP Stapling Request; 'ocsp-stapling-responses-from-a10authd': Total OCSP Stapling Response; 'opened-socket': Total AAM Socket Opened; 'open-socket-failed': Total AAM Open Socket Failed; 'connect': Total AAM Connection; 'connect-failed': Total AAM Connect Failed; 'created-timer': Total AAM Timer Created; 'create-timer-failed': Total AAM Timer Creation Failed; 'total-request': Total Request Received by A10 Auth Service; 'get-socket-option-failed': Total AAM Get Socket Option Failed; 'aflex-authz-succ': Total Authorization success number in aFleX; 'aflex-authz-fail': Total Authorization failure number in aFleX; 'authn-success': Total Authentication success number; 'authn-failure': Total Authentication failure number; 'authz-success': Total Authorization success number; 'authz-failure': Total Authorization failure number; 'active-session': Total Active Auth-Sessions; 'active-user': Total Active Users; 'dns-resolve-failed': Total AAM DNS resolve failed; 'domain-wlist-match': Total DOMAIN WHITELIST match number; 'domain-wlist-unmatch': Total DOMAIN WHITELIST unmatch number;

Type: string

Supported Values: all, requests, responses, misses, ocsp-stapling-requests-to-a10authd, ocsp-stapling-responses-from-a10authd, opened-socket, open-socket-failed, connect, connect-failed, created-timer, create-timer-failed, total-request, get-socket-option-failed, aflex-authz-succ, aflex-authz-fail, authn-success, authn-failure, authz-success, authz-failure, active-session, active-user, dns-resolve-failed, domain-wlist-match, domain-wlist-unmatch, auth_ctx_num

authentication_saml

Specification	Value
Type	*object*

global

Description: global is a **JSON Block**. Please see below for *authentication_saml_global*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml/global*

identity-provider-list

Type: List

Reference Object: */axapi/v3/aam/authentication/saml/identity-provider/{name}*

metadata

Description: metadata is a **JSON Block**. Please see below for *authentication_saml_metadata*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml/metadata*

metadata-monitor

Description: metadata-monitor is a **JSON Block**. Please see below for *authentication_saml_metadata-monitor*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml/metadata-monitor*

service-provider-list

Type: List

Reference Object: */axapi/v3/aam/authentication/saml/service-provider/{name}*

session

Description: session is a **JSON Block**. Please see below for *authentication_saml_session*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml/session*

authentication_saml_service-provider-list

Specification	Value
Type	*list*
Block object keys	

SP-initiated-single-logout-service

Type: List

acs-uri-bypass

Description After user authenticated, bypass requests with assertion-consuming-service location URI

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

adfs-ws-federation

Description: adfs-ws-federation is a **JSON Block**. Please see below for *authentication_saml_service-provider-list_adfs-ws-federation*

Type: Object

artifact-resolution-service

Type: List

assertion-consuming-service

Type: List

bad-request-redirect-url

Description Specify URL to redirect

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

certificate

Description SAML service provider certificate file (PFX format is required.)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

entity-id

Description SAML service provider entity ID

Type: string

Format: string-rlx

Maximum Length: 1023 characters

Maximum Length: 1 characters

metadata-export-service

Description: metadata-export-service is a **JSON Block**. Please see below for *authentication_saml_service-provider-list_metadata-export-service*

Type: Object

name

Description Specify SAML authentication service provider name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-saml-service-prov-tmpl*

require-assertion-signed

Description: require-assertion-signed is a **JSON Block**. Please see below for *authentication_saml_service-provider-list_require-assertion-signed*

Type: Object

saml-request-signed

Description: saml-request-signed is a **JSON Block**. Please see below for *authentication_saml_service-provider-list_saml-request-signed*

Type: Object

sampling-enable

Type: List

service-url

Description SAML service provider service URL (ex. https://www.a10networks.com/saml.sso)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

signature-algorithm

Description 'SHA1': use SHA1 as signature algorithm (default); 'SHA256': use SHA256 as signature algorithm;

Type: string

Supported Values: SHA1, SHA256

Default: SHA1

single-logout-service

Type: List

soap-tls-certificate-validate

Description: soap-tls-certificate-validate is a **JSON Block**. Please see below for *authentication_saml_service-provider-list_soap-tls-certificate-validate*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

username-attribute

Description Specify the assertion attribute which value is username

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_saml_service-provider-list_require-assertion-signed

Specification	Value
Type	*object*

require-assertion-signed-enable

Description Enable required signing of SAML assertion

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication_saml_service-provider-list_single-logout-service

Specification	Value
Type	*list*
Block object keys	

SLO-binding

Description 'post': POST binding of single logout service; 'redirect': Redirect binding of single logout service; 'soap': SOAP binding of single logout service;

Type: string

Supported Values: post, redirect, soap

SLO-location

Description The location of name-id management service. (ex. /SAML/POST)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_saml_service-provider-list_assertion-consuming-service

Specification	Value
Type	*list*
Block object keys	

assertion-binding

Description 'artifact': Artifact binding of assertion consuming service; 'paos': PAOS binding of assertion consuming service; 'post': POST binding of assertion consuming service;

Type: string

Supported Values: artifact, paos, post

assertion-index

Description The index of assertion consuming service

Type: number

Range: 0-5

assertion-location

Description The location of assertion consuming service endpoint. (ex. /SAML/POST)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_saml_service-provider-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'sp-metadata-export-req': Metadata Export Request; 'sp-metadata-export-success': Metadata Export Success; 'login-auth-req': Login Authentication Request; 'login-auth-resp': Login Authentication Response; 'acs-req': SAML Single-Sign-On Request; 'acs-success': SAML Single-Sign-On Success; 'acs-authz-fail': SAML Single-Sign-On Authorization Fail; 'acs-error': SAML Single-Sign-On Error; 'slo-req': Single Logout Request; 'slo-success': Single Logout Success; 'slo-error': Single Logout Error; 'sp-slo-req': SP-initiated Single Logout Request; 'glo-slo-success': Total Global Logout Success; 'loc-slo-success': Total Local Logout Success; 'par-slo-success': Total Partial Logout Success; 'other-error': Other Error;

Type: string

Supported Values: all, sp-metadata-export-req, sp-metadata-export-success, login-auth-req, login-auth-resp, acs-req, acs-success, acs-authz-fail, acs-error, slo-req, slo-success, slo-error, sp-slo-req, glo-slo-success, loc-slo-success, par-slo-success, other-error

authentication_saml_service-provider-list_saml-request-signed

Specification	Value
Type	*object*

saml-request-signed-disable

Description Disable signing signature for SAML (Authn/Artifact Resolve) requests

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication_saml_service-provider-list_SP-initiated-single-logout-service

Specification	Value
Type	*list*
Block object keys	

SP-SLO-location

Description The location of SP-initiated single logout service endpoint. (ex. /Logout)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

asynchronous

Description the IDP will not send a logout response to AX

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication_saml_service-provider-list_adfs-ws-federation

Specification	Value
Type	*object*

ws-federation-enable

Description Enable ADFS WS-Federation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication_saml_service-provider-list_soap-tls-certificate-validate

Specification	Value
Type	*object*

soap-tls-certificate-validate-disable

Description Disable verification for server certificate in TLS session when resolving artificate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication_saml_service-provider-list_artifact-resolution-service

Specification	Value
Type	*list*
Block object keys	

artifact-binding

Description 'soap': SOAP binding of artifact resolution service;

Type: string

Supported Values: soap

artifact-index

Description The index of artifact resolution service

Type: number

Range: 0-5

artifact-location

Description The location of artifact resolution service. (ex. /SAML/POST)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_saml_service-provider-list_metadata-export-service

Specification	Value
Type	*object*

md-export-location

Description Specify the URI to export SP metadata (Export URI. Default is /A10SP_Metadata)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sign-xml

Description Sign exported SP metadata XML with SP's certificate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication_saml_identity-provider-list

Specification	Value
Type	*list*
Block object keys	

metadata

Description URL of SAML identity provider's metadata file

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

name

Description SAML authentication identity provider name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

reload-interval

Description Specify URI metadata reload period (Specify URI metadata reload period in seconds, default is 28800)

Type: number

Range: 1-86400

Default: 28800

reload-metadata

Description Reload IdP's metadata immediately

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_saml_global

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_saml_global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'requests-to-a10saml': Total Request to A10 SAML Service; 'responses-from-a10saml': Total Response from A10 SAML Service; 'sp-metadata-export-req': Total Metadata Export Request; 'sp-metadata-export-success': Toal Metadata Export Success; 'login-auth-req': Total Login Authentication Request; 'login-auth-resp': Total Login Authentication Response; 'acs-req': Total SAML Single-Sign-On Request; 'acs-success': Total SAML Single-Sign-On Success; 'acs-authz-fail': Total SAML Single-Sign-On Authorization Fail; 'acs-error': Total SAML Single-Sign-On Error; 'slo-req': Total Single Logout Request; 'slo-success': Total Single Logout Success; 'slo-error': Total Single Logout Error; 'sp-slo-req': Total SP-initiated Single Logout Request; 'glo-slo-success': Total Global Logout Success; 'loc-slo-success': Total Local Logout Success; 'par-slo-success': Total Partial Logout Success; 'relay-req': some help string; 'relay-success': some help string; 'relay-fail': some help string; 'relay-error': some help string; 'other-error': Total Other Error;

Type: string

Supported Values: all, requests-to-a10saml, responses-from-a10saml, sp-metadata-export-req, sp-metadata-export-success, login-auth-req, login-auth-resp, acs-req, acs-success, acs-authz-fail, acs-error, slo-req, slo-success, slo-error, sp-slo-req, glo-slo-success, loc-slo-success, par-slo-success, relay-req, relay-success, relay-fail, relay-error, other-error

authentication_saml_session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_saml_metadata-monitor

Specification	Value
Type	*object*

acs-continuous-fail-threshold

Description Specify how many ACS continuous fails will trigger metadata reload (ACS continuous fail threshold (default: 10))

Type: number

Range: 2-254

acs-missing-period

Description Specify how long no acs request will trigger metadata reload (in seconds (default: 60))

Type: number

Range: 1-254

acs-missing-threshold

Description Specify how many ACS request missing in the period will trigger metadata reload (ACS request missing threshold (default: 100))

Type: number

Range: 10-254

status

Description 'enable': Enable SAML metadata out-of-sync detection; 'disable': Disable SAML metadata out-of-sync detection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_saml_metadata

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_server

Specification	Value
Type	*object*

ldap

Description: ldap is a **JSON Block**. Please see below for *authentication_server_ldap*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/ldap*

ocsp

Description: ocsp is a **JSON Block**. Please see below for *authentication_server_ocsp*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/ocsp*

radius

Description: radius is a **JSON Block**. Please see below for *authentication_server_radius*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/radius*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

windows

Description: windows is a **JSON Block**. Please see below for *authentication_server_windows*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/windows*

authentication_server_windows

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/windows/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_server_windows_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'kerberos-request-send': Total Kerberos Request; 'kerberos-response-get': Total Kerberos Response; 'kerberos-timeout-error': Total Kerberos Timeout; 'kerberos-other-error': Total Kerberos Other Error; 'ntlm-authentication-success': Total NTLM Authentication Success; 'ntlm-authentication-failure': Total NTLM Authentication Failure; 'ntlm-proto-negotiation-success': Total NTLM Protocol Negotiation Success; 'ntlm-proto-negotiation-failure': Total NTLM Protocol Negotiation Failure; 'ntlm-session-setup-success': Total NTLM Session Setup Success; 'ntlm-session-setup-failed': Total NTLM Session Setup Failure; 'kerberos-request-normal': Total Kerberos Normal Request; 'kerberos-request-dropped': Total Kerberos Dropped Request; 'kerberos-response-success': Total Kerberos Success Response; 'kerberos-response-failure': Total Kerberos Failure Response; 'kerberos-response-error': Total Kerberos Error Response; 'kerberos-response-timeout': Total Kerberos Timeout Response; 'kerberos-response-other': Total Kerberos Other Response; 'kerberos-job-start-error': Total Kerberos Job Start Error; 'kerberos-polling-control-error': Total Kerberos Polling Control Error; 'ntlm-prepare-req-success': Total NTLM Prepare Request Success; 'ntlm-prepare-req-failed': Total NTLM Prepare Request Failed; 'ntlm-timeout-error': Total NTLM Timeout; 'ntlm-other-error': Total NTLM Other Error; 'ntlm-request-normal': Total NTLM Normal Request; 'ntlm-request-dropped': Total NTLM Dropped Request; 'ntlm-response-success': Total NTLM Success Response; 'ntlm-response-failure': Total NTLM Failure Response; 'ntlm-response-error': Total NTLM Error Response; 'ntlm-response-timeout': Total NTLM Timeout Response; 'ntlm-response-other': Total NTLM Other Response; 'ntlm-job-start-error': Total NTLM Job Start Error; 'ntlm-polling-control-error': Total NTLM Polling Control Error; 'kerberos-pw-expiry': Total Kerberos password expiry; 'kerberos-pw-change-success': Total Kerberos password change success; 'kerberos-pw-change-failure': Total Kerberos password change failure; 'kerberos-validate-kdc-success': Total Kerberos KDC Validation Success; 'kerberos-validate-kdc-failure': Total Kerberos KDC Validation Failure; 'kerberos-generate-kdc-keytab-success': Total Kerberos KDC Keytab Generation Success; 'kerberos-generate-kdc-keytab-failure': Total Kerberos KDC Keytab Generation Failure; 'kerberos-delete-kdc-keytab-success': Total Kerberos KDC Keytab Deletion Success; 'kerberos-delete-kdc-keytab-failure': Total Kerberos KDC Keytab Deletion Failure; 'kerberos-kdc-keytab-count': Current Kerberos KDC Keytab Count;

Type: string

Supported Values: all, kerberos-request-send, kerberos-response-get, kerberos-timeout-error, kerberos-other-error, kerberos-request-normal, kerberos-request-dropped, kerberos-response-success, kerberos-response-failure, kerberos-response-error, kerberos-response-timeout, kerberos-response-other, kerberos-job-start-error, kerberos-polling-control-error, kerberos-pw-expiry, kerberos-pw-change-success, kerberos-pw-change-failure, kerberos-validate-kdc-success, kerberos-validate-kdc-failure, kerberos-generate-kdc-keytab-success,

kerberos-generate-kdc-keytab-failure, kerberos-delete-kdc-keytab-success, kerberos-delete-kdc-keytab-failure, kerberos-kdc-keytab-count

authentication_server_windows_instance-list

Specification	Value
Type	*list*
Block object keys	

auth-protocol

Description: auth-protocol is a **JSON Block**. Please see below for *authentication_server_windows_instance-list_auth-protocol*

Type: Object

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *authentication_server_windows_instance-list_host*

Type: Object

name

Description Specify Windows authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-win-inst-tmpl*

realm

Description Specify realm of Windows server

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

support-apacheds-kdc

Description Enable weak cipher (DES CRC/MD5/MD4) and merge AS-REQ in single packet

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Specify connection timeout to server, default is 10 seconds

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_server_windows_instance-list_host

Specification	Value
Type	*object*

hostip

Description Specify the Windows server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Specify the Windows server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

authentication_server_windows_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'krb_send_req_success': Kerberos Request; 'krb_get_resp_success': Kerberos Response; 'krb_timeout_error': Kerberos Timeout; 'krb_other_error': Kerberos Other Error; 'krb_pw_expiry': Kerberos password expiry; 'krb_pw_change_success': Kerberos password change success; 'krb_pw_change_failure': Kerberos password change failure; 'ntlm_proto_nego_success': NTLM Protocol Negotiation Success; 'ntlm_proto_nego_failure': NTLM Protocol Negotiation Failure; 'ntlm_session_setup_success': NTLM Session Setup Success; 'ntlm_session_setup_failure': NTLM Session Setup Failure; 'ntlm_prepare_req_success': NTLM Prepare Request Success; 'ntlm_prepare_req_error': NTLM Prepare Request Error; 'ntlm_auth_success': NTLM Authentication Success; 'ntlm_auth_failure': NTLM Authentication Failure; 'ntlm_timeout_error': NTLM Timeout; 'ntlm_other_error': NTLM Other Error; 'krb_validate_kdc_success': Kerberos KDC Validation Success; 'krb_validate_kdc_failure': Kerberos KDC Validation Failure;

Type: string

Supported Values: all, krb_send_req_success, krb_get_resp_success, krb_timeout_error, krb_other_error, krb_pw_expiry, krb_pw_change_success, krb_pw_change_failure, krb_validate_kdc_success, krb_validate_kdc_failure

authentication_server_windows_instance-list_auth-protocol

Specification	Value
Type	*object*

kdc-validate

Description Enable KDC validation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

kerberos-kdc-validation

Description: kerberos-kdc-validation is a **JSON Block**. Please see below for *authentication_server_windows_instance-list_auth-protocol_kerberos-kdc-validation*

Type: Object

kerberos-password-change-port

Description Specify the Kerbros password change port, default is 464

Type: number

Range: 1-65534

Default: 464

kerberos-port

Description Specify the Kerberos port, default is 88

Type: number

Range: 1-65534

Default: 88

kport-hm

Description Check Kerberos port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: kport-hm and kport-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

kport-hm-disable

Description Disable configured Kerberos port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: kport-hm-disable and kport-hm are mutually exclusive

authentication_server_windows_instance-list_auth-protocol_kerberos-kdc-validation

Specification	Value
Type	*object*

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.)

kdc-account

Description Specify account for KDC validation

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

kdc-password

Description Specify account password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

kdc-pwd

Description Account password

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

kdc-spn

Description Specify SPN for KDC validation

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

authentication_server_ocsp

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/ocsp/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_server_ocsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'stapling-certificate-good': Total OCSP Stapling Good Certificate Response; 'stapling-certificate-revoked': Total OCSP Stapling Revoked Certificate Response; 'stapling-certificate-unknown': Total OCSP Stapling Unknown Certificate Response; 'stapling-request-normal': Total OSCP Stapling Normal Request; 'stapling-request-dropped': Total OCSP Stapling Dropped Request; 'stapling-response-success': Total OCSP Stapling Success Response; 'stapling-response-failure': Total OCSP Stapling Failure Response; 'stapling-response-error': Total OCSP Stapling Error Response; 'stapling-response-timeout': Total OCSP Stapling Timeout Response; 'stapling-response-other': Total OCSP Stapling Other Response; 'request-normal': Total OSCP Normal Request; 'request-dropped': Total OCSP Dropped Request; 'response-success': Total OCSP Success Response; 'response-failure': Total OCSP Failure Response; 'response-error': Total OCSP Error Response; 'response-timeout': Total OCSP Timeout Response; 'response-other': Total OCSP Other Response; 'job-start-error': Total OCSP Job Start Error; 'polling-control-error': Total OCSP Polling Control Error;

Type: string

Supported Values: all, stapling-certificate-good, stapling-certificate-revoked, stapling-certificate-unknown, stapling-request-normal, stapling-request-dropped, stapling-response-success, stapling-response-failure, stapling-response-error, stapling-response-timeout, stapling-response-other, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error

authentication_server_ocsp_instance-list

Specification	Value
Type	*list*
Block object keys	

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

http-version

Description Set HTTP version (default 1.0)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Specify OCSP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-ocsp-inst-tmpl*

port-health-check

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-health-check and port-health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-health-check-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-health-check-disable and port-health-check are mutually exclusive

responder-ca

Description Specify the trusted OCSP responder's CA cert filename

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

responder-cert

Description Specify the trusted OCSP responder's cert filename

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

sampling-enable

Type: List

url

Description Specify the OCSP server's address (Format: http://host{[}:port{]}/) (The OCSP server's address(Format: http://host{[}:port{]}/))

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

version-type

Description '1.1': HTTP version 1.1;

Type: string

Supported Values: 1.1

authentication_server_ocsp_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'certificate-good': Good Certificate Response; 'certificate-revoked': Revoked Certificate Response; 'certificate-unknown': Unknown Certificate Response; 'timeout': Timeout; 'fail': Handle OCSP response failed; 'stapling-request': OCSP Stapling Request Send; 'stapling-certificate-good': OCSP Stapling Good Certificate Response; 'stapling-certificate-revoked': OCSP Stapling Revoked Certificate Response; 'stapling-certificate-unknown': OCSP Stapling Unknown Certificate Response; 'stapling-timeout': OCSP Stapling Timeout; 'stapling-fail': Handle OCSP response failed;

Type: string

Supported Values: all, request, certificate-good, certificate-revoked, certificate-unknown, timeout, fail, stapling-request, stapling-certificate-good, stapling-certificate-revoked, stapling-certificate-unknown, stapling-timeout, stapling-fail

authentication_server_radius

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/radius/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_server_radius_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'authen_success': Total Authentication Success; 'authen_failure': Total Authentication Failure; 'authorize_success': Total Authorization Success; 'authorize_failure': Total Authorization Failure; 'access_challenge': Total Access-Challenge Message Receive; 'timeout_error': Total Timeout; 'other_error': Total Other Error; 'request': Total Request; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response; 'job-start-error': Total Job Start Error; 'polling-control-error': Total Polling Control Error; 'accounting-request-sent': Accounting-Request Sent; 'accounting-success': Accounting Success; 'accounting-failure': Accounting Failure;

Type: string

Supported Values: all, authen_success, authen_failure, authorize_success, authorize_failure, access_challenge, timeout_error, other_error, request, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error, accounting-request-sent, accounting-success, accounting-failure

authentication_server_radius_instance-list

Specification	Value
Type	*list*
Block object keys	

accounting-port

Description Specify the RADIUS server's accounting port, default is 1813

Type: number

Range: 1-65534

Default: 1813

acct-port-hm

Description Specify accounting port health check method

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: acct-port-hm and acct-port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

acct-port-hm-disable

Description Disable configured accounting port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: acct-port-hm-disable and acct-port-hm are mutually exclusive

auth-type

Description 'pap': PAP authentication. Default; 'mschapv2': MS-CHAPv2 authentication; 'mschapv2-pap': Use MS-CHAPv2 first. If server doesn't support it, try PAP;

Type: string

Supported Values: pap, mschapv2, mschapv2-pap

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *authentication_server_radius_instance-list_host*

Type: Object

interval

Description Specify the interval time for resend the request (second), default is 3 seconds (The interval time(second), default is 3 seconds)

Type: number

Range: 1-1024

Default: 3

message-authenticator-verify-enable

Description Verify Message-Authenticator attribute

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Specify RADIUS authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-rad-inst-tmpl*

port

Description Specify the RADIUS server's authentication port, default is 1812

Type: number

Range: 1-65534

Default: 1812

port-hm

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-hm and port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-hm-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-hm-disable and port-hm are mutually exclusive

retry

Description Specify the retry number for resend the request, default is 5 (The retry number, default is 5)

Type: number

Range: 1-32

Default: 5

sampling-enable

Type: List

secret

Description Specify the RADIUS server's secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-string

Description The RADIUS server's secret

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_server_radius_instance-list_host

Specification	Value
Type	*object*

hostip

Description Server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

authentication_server_radius_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'authen_success': Authentication Success; 'authen_failure': Authentication Failure; 'authorize_success': Authorization Success; 'authorize_failure': Authorization Failure; 'access_challenge': Access-Challenge Message Receive; 'timeout_error': Timeout; 'other_error': Other Error; 'request': Request; 'accounting-request-sent': Accounting-Request Sent; 'accounting-success': Accounting Success; 'accounting-failure': Accounting Failure;

Type: string

Supported Values: all, authen_success, authen_failure, authorize_success, authorize_failure, access_challenge, timeout_error, other_error, request, accounting-request-sent, accounting-success, accounting-failure

authentication_server_ldap

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/ldap/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_server_ldap_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'admin-bind-success': Total Admin Bind Success; 'admin-bind-failure': Total Admin Bind Failure; 'bind-success': Total User Bind Success; 'bind-failure': Total User Bind Failure; 'search-success': Total Search Success; 'search-failure': Total Search Failure; 'authorize-success': Total Authorization Success; 'authorize-failure': Total Authorization Failure; 'timeout-error': Total Timeout; 'other-error': Total Other Error; 'request': Total Request; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response; 'job-start-error': Total Job Start Error; 'polling-control-error': Total Polling Control Error; 'ssl-session-created': TLS/SSL Session Created; 'ssl-session-failure': TLS/SSL Session Failure; 'ldaps-idle-conn-num': LDAPS Idle Connection Number; 'ldaps-inuse-conn-num': LDAPS In-use Connection Number; 'pw-expiry': Total Password expiry; 'pw-change-success': Total password change success; 'pw-change-failure': Total password change failure;

Type: string

Supported Values: all, admin-bind-success, admin-bind-failure, bind-success, bind-failure, search-success, search-failure, authorize-success, authorize-failure, timeout-error, other-error, request, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error, ssl-session-created, ssl-session-failure, ldaps-idle-conn-num, ldaps-inuse-conn-num, pw-expiry, pw-change-success, pw-change-failure

authentication_server_ldap_instance-list

Specification	Value
Type	*list*
Block object keys	

admin-dn

Description The LDAP server's admin DN

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

admin-secret

Description Specify the LDAP server's admin secret password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-type

Description 'ad': Active Directory. Default; 'open-ldap': OpenLDAP;

Type: string

Supported Values: ad, open-ldap

base

Description Specify the LDAP server's search base

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

bind-with-dn

Description Enforce using DN for LDAP binding(All user input name will be used to create DN)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ca-cert

Description Specify the LDAPS CA cert filename (Trusted LDAPS CA cert filename)

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

default-domain

Description Specify default domain for LDAP

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

derive-bind-dn

Description: derive-bind-dn is a **JSON Block**. Please see below for *authentication_server_ldap_instance-list_derive-bind-dn*

Type: Object

dn-attribute

Description Specify Distinguished Name attribute, default is CN

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

Default: cn

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *authentication_server_ldap_instance-list_host*

Type: Object

ldaps-conn-reuse-idle-timeout

Description Specify LDAPS connection reuse idle timeout value (in seconds) (Specify idle timeout value (in seconds), default is 0 (not reuse LDAPS connection))

Type: number

Range: 0-86400

Default: 0

name

Description Specify LDAP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-ldap-inst-tmpl*

port

Description Specify the LDAP server's authentication port, default is 389

Type: number

Range: 1-65534

Default: 389

port-hm

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-hm and port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-hm-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-hm-disable and port-hm are mutually exclusive

prompt-pw-change-before-exp

Description Prompt user to change password before expiration in N days. This option only takes effect when server type is AD (Prompt user to change password before expiration in N days, default is not to prompt the user)

Type: number

Range: 1-999

protocol

Description 'ldap': Use LDAP (default); 'ldaps': Use LDAP over SSL; 'starttls': Use LDAP StartTLS;

Type: string

Supported Values: ldap, ldaps, starttls

Default: ldap

pwdmaxage

Description Specify the LDAP server's default password expiration time (in seconds) (The LDAP server's default password expiration time (in seconds), default is 0 (no expiration))

Type: number

Range: 0-4294967295

Default: 0

sampling-enable

Type: List

secret-string

Description secret password

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

timeout

Description Specify timout for LDAP, default is 10 seconds (The timeout, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_server_ldap_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'admin-bind-success': Admin Bind Success; 'admin-bind-failure': Admin Bind Failure; 'bind-success': User Bind Success; 'bind-failure': User Bind Failure; 'search-success': Search Success; 'search-failure': Search Failure; 'authorize-success': Authorization Success; 'authorize-failure': Authorization Failure; 'timeout-error': Timeout; 'other-error': Other Error; 'request': Request; 'ssl-session-created': TLS/SSL Session Created; 'ssl-session-failure': TLS/SSL Session Failure; 'pw_expiry': Password expiry; 'pw_change_success': Password change success; 'pw_change_failure': Password change failure;

Type: string

Supported Values: all, admin-bind-success, admin-bind-failure, bind-success, bind-failure, search-success, search-failure, authorize-success, authorize-failure, timeout-error, other-error, request, ssl-session-created, ssl-session-failure, pw_expiry, pw_change_success, pw_change_failure

authentication_server_ldap_instance-list_derive-bind-dn

Specification	Value
Type	*object*

username-attr

Description Specify attribute name of username

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

authentication_server_ldap_instance-list_host

Specification	Value
Type	*object*

hostip

Description Server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

authentication_captcha

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/captcha/instance/{name}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_captcha_instance-list

Specification	Value
Type	*list*
Block object keys	

client-ip-param-name

Description Specify client ip parameter name used in API (Set parameter name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

method

Description 'POST': API uses POST method; 'GET': API uses GET method;

Type: string

Supported Values: POST, GET

Default: POST

name

Description Specify captcha profile name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

resp-error-code-field-name

Description Specify error code field name used in JSON response (Set field name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

resp-result-field-name

Description Specify result field name used in JSON response (Set field name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-key

Description Specify secret key

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-key-param-name

Description Specify secret key parameter name used in API (Set parameter name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-key-string

Description Secret key string

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

send-client-ip

Description Send client IP address in API

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Specify timeout for verify API response (Specify timeout value, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

token-param-name

Description Specify token parameter name used in API (Set parameter name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

url

Description Specify verify API URL, default scheme is https

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_file

Specification	Value
Type	*object*

portal

Description: portal is a **JSON Block**. Please see below for *authentication_file_portal*

Type: Object

Reference Object: */axapi/v3/aam/authentication/file/portal*

portal-image

Description: portal-image is a **JSON Block**. Please see below for *authentication_file_portal-image*

Type: Object

Reference Object: */axapi/v3/aam/authentication/file/portal-image*

authentication_file_portal

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_file_portal-image

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_oauth

Specification	Value
Type	*object*

authorization-server-list

Type: List

Reference Object: */axapi/v3/aam/authentication/oauth/authorization-server/{name}*

client-list

Type: List

Reference Object: */axapi/v3/aam/authentication/oauth/client/{name}*

global

Description: global is a **JSON Block**. Please see below for *authentication_oauth_global*

Type: Object

Reference Object: */axapi/v3/aam/authentication/oauth/global*

authentication_oauth_global

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_oauth_global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auth-req': some help string; 'auth-succ': some help string; 'auth-fail': some help string; 'auth-error': some help string; 'relay-req': some help string; 'relay-succ': some help string; 'relay-fail': some help string; 'other-error': some help string;

Type: string

Supported Values: all, auth-req, auth-succ, auth-fail, auth-error, relay-req, relay-succ, relay-fail, other-error

authentication_oauth_client-list

Specification	Value
Type	*list*
Block object keys	

client-id

Description Specify oauth client-id

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

client-secret

Description

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

grant-type

Description 'implicit': The authorization server will return access token directly.; 'authorization-code': The authorization server will respond with code which can be exchange for access token.; 'hybrid-code-id-token': The authorization server will respond with both code and id token.; 'hybrid-code-token': The authorization server will respond with both code and access token.; 'hybrid-all': The authorization server will respond with code, access token and id token;

Type: string

Supported Values: implicit, authorization-code, hybrid-code-id-token, hybrid-code-token, hybrid-all

infinity

Description Auth session never time out whatever value oauth servers' response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: infinity and token-lifetime are mutually exclusive

name

Description Specify client object name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

no-reply

Description AX will not check the nonce value in response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

parameter-nonce-enable

Description Enable nonce parameter for authorization and token request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

redirection-endpoint

Description Oauth client redirection endpoint service URL.

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

scope

Description Specify request scope parameters (e.g. profile email address phone)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

session-init-ttl

Description TTL for Thunder to wait for first response from authorization server

Type: number

Range: 1-60

token-lifetime

Description

Type: number

Range: 1-2592000

Mutual Exclusion: token-lifetime and infinity are mutually exclusive

type

Description 'openid-connect': openid-connect;

Type: string

Supported Values: openid-connect

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_oauth_authorization-server-list

Specification	Value
Type	*list*
Block object keys	

authorization-endpoint

Description Specify URI for authorization

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

client-method

Description 'ignored': Clients' browser will send data according to server spec (default); 'post': Clients' browser will send data by POST; 'get': Clients' browser will send data by GET;

Type: string

Supported Values: ignored, post, get

issuer

Description Specify openid provider name for authorization

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

name

Description Specify authorization server object name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

server-method

Description 'post': AX will send data to server by POST (default); 'get': AX will send data to server by GET;

Type: string

Supported Values: post, get

token-endpoint

Description Specify URI for token exchange

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

verification-cert

Description Specify certificate to verify ID token signature

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-cert and verification-jwks are mutually exclusive

verification-jwks

Description Specify jwks file to verify ID token signature

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-jwks and verification-cert are mutually exclusive

authentication_oauth_authorization-server-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auth-req': some help string; 'auth-succ': some help string; 'auth-fail': some help string; 'auth-error': some help string; 'other-error': some help string;

Type: string

Supported Values: all, auth-req, auth-succ, auth-fail, auth-error, other-error

authentication_password-retry

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_template-list

Specification	Value
Type	*list*
Block object keys	

account

Description Specify AD domain account

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/account/kerberos-spn*

accounting-server

Description Specify a RADIUS accounting server

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: accounting-server and accounting-service-group are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/server/radius/instance*

accounting-service-group

Description Specify an authentication service group for RADIUS accounting

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: accounting-service-group and accounting-server are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

auth-sess-mode

Description 'cookie-based': Track auth-session by cookie (default); 'ip-based': Track auth-session by client IP;

Type: string

Supported Values: cookie-based, ip-based

captcha

Description Specify captcha profile (Specify captcha proflie name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/captcha/instance*

chain

Type: List

cookie-domain

Type: List

cookie-domain-group

Type: List

cookie-httponly-enable

Description Enable httponly attribute for AAM cookies

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cookie-max-age

Description Configure Max-Age for authentication session cookie (Configure Max-Age in seconds, 0 for no Max-Age/Expires attributes. Default is 604800 (1 week).)

Type: number

Range: 0-2592000

Default: 604800

cookie-samesite

Description 'strict': Specify SameSite attribute as Strict for AAM cookie; 'lax': Specify Same-Site attribute as Lax for AAM cookie; 'none': Specify SameSite attribute as None for AAM cookie;

Type: string

Supported Values: strict, lax, none

cookie-secure-enable

Description Enable secure attribute for AAM cookies

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

forward-logout-disable

Description Disable forward logout request to backend application server. The config-field logout-url must be configured first

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

jwt

Description Specify authentication jwt template

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/jwt*

local-logging

Description Enable local logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log

Description 'use-partition-level-config': Use configuration of authentication-log enable command; 'enable': Enable authentication logs for this template; 'disable': Disable authentication logs for this template;

Type: string

Supported Values: use-partition-level-config, enable, disable

Default: use-partition-level-config

logon

Description Specify authentication logon (Specify authentication logon template name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

logout-idle-timeout

Description Specify idle logout time (Specify idle timeout in seconds, default is 300)

Type: number

Range: 1-86400

Default: 300

logout-url

Description Specify logout url (Specify logout url string)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

max-session-time

Description Specify default SAML token lifetime (Specify lifetime (in seconds) of SAML token when it not provided by token attributes, default is 28800. (0 for indefinite))

Type: number

Range: 0-86400

modify-content-security-policy

Description Put redirect-uri or service-principal-name into CSP header to avoid CPS break authentication process

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Authentication template name

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

oauth-authorization-server

Description Specify OAUTH authorization server

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

oauth-client

Description Specify OAUTH client

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

redirect-hostname

Description Hostname(Length 1-31) for transparent-proxy authentication

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

relay

Description Specify authentication relay (Specify authentication relay template name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

saml-idp

Description Specify SAML identity provider

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

saml-sp

Description Specify SAML service provider

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

server

Description Specify authentication server (Specify authentication server template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: server and service-group are mutually exclusive

service-group

Description Bind an authentication service group to this template (Specify authentication service group name)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: service-group, server, and chain-server are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

type

Description 'saml': SAML authentication template; 'standard': Standard authentication template; 'oauth': Oauth 2.0 authentication template;

Type: string

Supported Values: saml, standard, oauth

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication_template-list_chain

Specification	Value
Type	*list*
Block object keys	

chain-server

Description Specify authentication server (Specify authentication server template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: chain-server, service-group, and chain-sg are mutually exclusive

chain-server-priority

Description Set server priority, higher the number higher the priority. Default is 3. (Chain server priority, higher the number higher the priority. Default is 3.)

Type: number

Range: 1-5

Default: 3

chain-sg

Description Bind an authentication service group to this template (Specify authentication service group name)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: chain-sg and chain-server are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

chain-sg-priority

Description Set service-group priority, higher the number higher the priority. Default is 3. (Chain service-group priority, higher the number higher the priority. Default is 3.)

Type: number

Range: 1-5

Default: 3

authentication_template-list_cookie-domain-group

Specification	Value
Type	*list*
Block object keys	

cookie-dmngrp

Description Specify group id to join in the cookie-domain

Type: number

Range: 0-31

authentication_template-list_cookie-domain

Specification	Value
Type	*list*
Block object keys	

cookie-dmn

Description Specify domain scope for the authentication (ex: .a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 2 characters

rdns

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

aaa-policy-list

Specification	Value
Type	*list*
Block object keys	

aaa-rule-list

Type: List

Reference Object: */axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}*

name

Description Specify AAA policy name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-aaa-policy-tmpl*

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

aaa-policy-list_aaa-rule-list

Specification	Value
Type	*list*
Block object keys	

access-list

Description: access-list is a **JSON Block**. Please see below for *aaa-policy-list_aaa-rule-list_access-list*

Type: Object

action

Description 'allow': Allow traffic that matches this rule; 'deny': Deny traffic that matches this rule;

Type: string

Supported Values: allow, deny

auth-failure-bypass

Description Forward client request even though authentication has failed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication-template

Description Specify authentication template name to bind to the AAA rule

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/template*

authorize-policy

Description Specify authorization policy to bind to the AAA rule

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authorization/policy*

captcha-authz-policy

Description Specify authorization policy for CAPTCHA (Authorization policy name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authorization/policy*

domain-name

Description Specify domain name to bind to the AAA rule (ex: a10networks.com, www.a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

domain-whitelist

Description Specify the AC type class-list for the domain-whitelist

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/class-list*

host

Type: List

index

Description Specify AAA rule index

Type: number

Range: 1-256

match-encoded-uri

Description Enable URL decoding for URI matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port

Description Specify port number for aaa-rule, default is 0 for all port numbers

Type: number

Range: 1-65535

sampling-enable

Type: List

uri

Type: List

user-agent

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

aaa-policy-list_aaa-rule-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_count': some help string; 'hit_deny': some help string; 'hit_auth': some help string; 'hit_bypass': some help string; 'failure_bypass': some help string;

Type: string

Supported Values: all, total_count, hit_deny, hit_auth, hit_bypass, failure_bypass

aaa-policy-list_aaa-rule-list_uri

Specification	Value
Type	*list*
Block object keys	

match-type

Description 'contains': Match URI if request URI contains specified URI; 'ends-with': Match URI if request URI ends with specified URI; 'equals': Match URI if request URI equals specified URI; 'starts-with': Match URI if request URI starts with specified URI;

Type: string

Supported Values: contains, ends-with, equals, starts-with

uri-str

Description Specify URI string

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

aaa-policy-list_aaa-rule-list_user-agent

Specification	Value
Type	*list*
Block object keys	

user-agent-match-type

Description 'contains': Match request User-Agent header if it contains specified string; 'ends-with': Match request User-Agent header if it ends with specified string; 'equals': Match request User-Agent header if it equals specified string; 'starts-with': Match request User-Agent header if it starts with specified string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

user-agent-str

Description Specify request User-Agent string

Type: string

Format: string-rlx

Maximum Length: 511 characters

Maximum Length: 1 characters

aaa-policy-list_aaa-rule-list_host

Specification	Value
Type	*list*
Block object keys	

host-match-type

Description 'contains': Match HOST if request HTTP HOST header contains specified hostname; 'ends-with': Match HOST if request HTTP HOST header ends with specified hostname; 'equals': Match HOST if request HTTP HOST header equals specified hostname; 'starts-with': Match HOST if request HTTP HOST header starts with specified hostname;

Type: string

Supported Values: contains, ends-with, equals, starts-with

host-str

Description Specify URI string

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

aaa-policy-list_aaa-rule-list_access-list

Specification	Value
Type	*object*

acl-id

Description ACL id

Type: number

Range: 1-199

Mutual Exclusion: acl-id and acl-name are mutually exclusive

acl-name

Description 'ip-name': Apply an IP named access list; 'ipv6-name': Apply an IPv6 named access list;

Type: string

Supported Values: ip-name, ipv6-name

Mutual Exclusion: acl-name and acl-id are mutually exclusive

name

Description Specify Named Access List

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

aaa-policy-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'req': Request; 'req-reject': Request Rejected; 'req-auth': Request Matching Authentication Template; 'req-bypass': Request Bypassed; 'req-skip': Request Skipped; 'error': Error; 'failure-bypass': Auth Failure Bypass;

Type: string

Supported Values: all, req, req-reject, req-auth, req-bypass, req-skip, error, failure-bypass

authorization

Specification	Value
Type	*object*

jwt

Description: jwt is a **JSON Block**. Please see below for *authorization_jwt*

Type: Object

Reference Object: */axapi/v3/aam/authorization/jwt*

policy-list

Type: List

Reference Object: */axapi/v3/aam/authorization/policy/{name}*

authorization_policy-list

Specification	Value
Type	*list*
Block object keys	

attribute-list

Type: List

Reference Object: */axapi/v3/aam/authorization/policy/{name}/attribute/{attr-num}*

attribute-rule

Description Define attribute rule for authorization policy

Type: string

Format: string-rlx

extended-filter

Description Extended search filter. EX: Check whether user belongs to a nested group. (memberOf:1.2.840.113556.1.4.1941:=$GROUP-DN)

Type: string

Format: string-rlx

Maximum Length: 511 characters

Maximum Length: 1 characters

forward-policy-authorize-only

Description This policy only provides server info for forward policy feature

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

jwt-authorization

Description Specify JWT authorization template (Specify JWT authorization template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: jwt-authorization, server, and service-group are mutually exclusive

Reference Object: */axapi/v3/aam/jwt-authorization*

jwt-claim-map-list

Type: List

Reference Object: */axapi/v3/aam/authorization/policy/{name}/jwt-claim-map/{attr-num}*

name

Description Specify authorization policy name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

server

Description Specify a LDAP or RADIUS server for authorization (Specify a LDAP or RADIUS server name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: server, service-group, and jwt-authorization are mutually exclusive

service-group

Description Specify an authentication service group for authorization (Specify authentication service group name)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: service-group, server, and jwt-authorization are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authorization_policy-list_jwt-claim-map-list

Specification	Value
Type	*list*
Block object keys	

attr-num

Description Spcify attribute ID for claim mapping

Type: number

Range: 1-32

bool-val

Description 'true': True; 'false': False;

Type: string

Supported Values: true, false

boolean-type

Description Claim type is boolean

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: boolean-type, string-type, and number-type are mutually exclusive

claim

Description Specify JWT claim name to map to.

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

num-val

Description Specify JWT claim value.

Type: number

Range: 0-4294967295

number-type

Description Claim type is number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: number-type, string-type, and boolean-type are mutually exclusive

str-val

Description Specify JWT claim value.

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

string-type

Description Claim type is string

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: string-type, number-type, and boolean-type are mutually exclusive

type

Description Specify claim type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authorization_policy-list_attribute-list

Specification	Value
Type	*list*
Block object keys	

A10-AX-AUTH-URI

Description Custom-defined attribute

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: A10-AX-AUTH-URI and attribute-name are mutually exclusive

a10-dynamic-defined

Description The value of this attribute will depend on AX configuration instead of user configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

any

Description Matched when attribute is present (with any value).

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: any and attr-type are mutually exclusive

attr-int

Description 'equal': Operation type is equal; 'not-equal': Operation type is not equal; 'less-than': Operation type is less-than; 'more-than': Operation type is more-than; 'less-than-equal-to': Operation type is less-than-equal-to; 'more-than-equal-to': Operation type is more-thatn-equal-to;

Type: string

Supported Values: equal, not-equal, less-than, more-than, less-than-equal-to, more-than-equal-to

attr-int-val

Description Set attribute value

Type: number

Range: 0-4294967295

attr-ip

Description 'equal': Operation type is equal; 'not-equal': Operation type is not-equal;

Type: string

Supported Values: equal, not-equal

attr-ipv4

Description IPv4 address

Type: string

Format: ipv4-address

attr-num

Description Set attribute ID for authorization policy

Type: number

Range: 1-32

attr-number

Description 'equal': Operation type is equal; 'not-equal': Operation type is not equal; 'less-than': Operation type is less-than; 'more-than': Operation type is more-than; 'less-than-equal-to': Operation type is less-than-equal-to; 'more-than-equal-to': Operation type is more-thatn-equal-to;

Type: string

Supported Values: equal, not-equal, less-than, more-than, less-than-equal-to, more-than-equal-to

attr-number-val

Description Set attribute value

Type: string

Maximum Length: 20 characters

Maximum Length: 1 characters

attr-str

Description 'match': Operation type is match; 'sub-string': Operation type is sub-string;

Type: string

Supported Values: match, sub-string

attr-str-val

Description Set attribute value

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

attr-type

Description Specify attribute type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: attr-type and any are mutually exclusive

attribute-name

Description Specify attribute name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: attribute-name and A10-AX-AUTH-URI are mutually exclusive

custom-attr-str

Description 'match': Operation type is match; 'sub-string': Operation type is sub-string;

Type: string

Supported Values: match, sub-string

custom-attr-type

Description Specify attribute type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

integer-type

Description Attribute type is integer

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: integer-type,string-type, ip-type, and number-type are mutually exclusive

ip-type

Description IP address is transformed into network byte order

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: ip-type,string-type, integer-type, and number-type are mutually exclusive

number-type

Description Attribute type is decimal number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: number-type,string-type, integer-type, and ip-type are mutually exclusive

string-type

Description Attribute type is string

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: string-type,integer-type, ip-type, and number-type are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authorization_jwt

Specification	Value
Type	*object*

cache

Description: cache is a **JSON Block**. Please see below for *authorization_jwt_cache*

Type: Object

Reference Object: */axapi/v3/aam/authorization/jwt/cache*

authorization_jwt_cache

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

auth-log

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.2 aam aaa-policy

AAM AAA policy configuration

aaa-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*aaa-policy-list*
Collection URI	/axapi/v3/aam/aaa-policy
Element Name	aaa-policy
Element URI	/axapi/v3/aam/aaa-policy/{name}
Element Attributes	aaa-policy_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/aaa-policy/{name}/stats
Schema	`aaa-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/aaa-policy

aaa-policy attributes

```
POST /axapi/v3/aam/aaa-policy/
Payload:
{
    "aaa-policy": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/aaa-policy

aaa-policy attributes

Get Object

GET

/axapi/v3/aam/aaa-policy/{name}

aaa-policy attributes

```
GET /axapi/v3/aam/aaa-policy/a
Reponse:
{
    "aaa-policy": {
        "name": "a",
        "uuid": "d91c1d36-086c-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/aaa-policy/a"
    }
}
```

Get List

GET

/axapi/v3/aam/aaa-policy

aaa-policy-list

Modify Object

POST

/axapi/v3/aam/aaa-policy/{name}

aaa-policy attributes

Replace Object

PUT

/axapi/v3/aam/aaa-policy/{name}

aaa-policy attributes

```
PUT /axapi/v3/aam/aaa-policy/a
Payload:
{
    "aaa-policy": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/aaa-policy

aaa-policy-list

Delete Object

DELETE

/axapi/v3/aam/aaa-policy/{name}

aaa-policy attributes

```
DELETE /axapi/v3/aam/aaa-policy/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

aaa-policy-list

aaa-policy-list is **JSON List** of *aaa-policy attributes*

aaa-policy-list : [

{ *aaa-policy attributes* },

{ *aaa-policy attributes* },

...

]

aaa-policy attributes

aaa-rule-list

Type: List

Reference Object: */axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}*

name

Description Specify AAA policy name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-aaa-policy-tmpl*

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

aaa-rule-list

Specification	Value
Type	*list*
Block object keys	

access-list

Description: access-list is a **JSON Block**. Please see below for *aaa-rule-list_access-list*

Type: Object

action

Description 'allow': Allow traffic that matches this rule; 'deny': Deny traffic that matches this rule;

Type: string

Supported Values: allow, deny

auth-failure-bypass

Description Forward client request even though authentication has failed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication-template

Description Specify authentication template name to bind to the AAA rule

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/template*

authorize-policy

Description Specify authorization policy to bind to the AAA rule

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authorization/policy*

captcha-authz-policy

Description Specify authorization policy for CAPTCHA (Authorization policy name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authorization/policy*

domain-name

Description Specify domain name to bind to the AAA rule (ex: a10networks.com, www.a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

domain-whitelist

Description Specify the AC type class-list for the domain-whitelist

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/class-list*

host

Type: List

index

Description Specify AAA rule index

Type: number

Range: 1-256

match-encoded-uri

Description Enable URL decoding for URI matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port

Description Specify port number for aaa-rule, default is 0 for all port numbers

Type: number

Range: 1-65535

sampling-enable

Type: List

uri

Type: List

user-agent

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

aaa-rule-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_count': some help string; 'hit_deny': some help string; 'hit_auth': some help string; 'hit_bypass': some help string; 'failure_bypass': some help string;

Type: string

Supported Values: all, total_count, hit_deny, hit_auth, hit_bypass, failure_bypass

aaa-rule-list_uri

Specification	Value
Type	*list*
Block object keys	

match-type

Description 'contains': Match URI if request URI contains specified URI; 'ends-with': Match URI if request URI ends with specified URI; 'equals': Match URI if request URI equals specified URI; 'starts-with': Match URI if request URI starts with specified URI;

Type: string

Supported Values: contains, ends-with, equals, starts-with

uri-str

Description Specify URI string

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

aaa-rule-list_user-agent

Specification	Value
Type	*list*
Block object keys	

user-agent-match-type

Description 'contains': Match request User-Agent header if it contains specified string; 'ends-with': Match request User-Agent header if it ends with specified string; 'equals': Match request User-Agent header if it equals specified string; 'starts-with': Match request User-Agent header if it starts with specified string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

user-agent-str

Description Specify request User-Agent string

Type: string

Format: string-rlx

Maximum Length: 511 characters

Maximum Length: 1 characters

aaa-rule-list_host

Specification	Value
Type	*list*
Block object keys	

host-match-type

Description 'contains': Match HOST if request HTTP HOST header contains specified hostname; 'ends-with': Match HOST if request HTTP HOST header ends with specified hostname; 'equals': Match HOST if request HTTP HOST header equals specified hostname; 'starts-with': Match HOST if request HTTP HOST header starts with specified hostname;

Type: string

Supported Values: contains, ends-with, equals, starts-with

host-str

Description Specify URI string

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

aaa-rule-list_access-list

Specification	Value
Type	*object*

acl-id

Description ACL id

Type: number

Range: 1-199

Mutual Exclusion: acl-id and acl-name are mutually exclusive

Reference Object: */axapi/v3/access-list/standard*

acl-name

Description 'ip-name': Apply an IP named access list; 'ipv6-name': Apply an IPv6 named access list;

Type: string

Supported Values: ip-name, ipv6-name

Mutual Exclusion: acl-name and acl-id are mutually exclusive

name

Description Specify Named Access List

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'req': Request; 'req-reject': Request Rejected; 'req-auth': Request Matching Authentication Template; 'req-bypass': Request Bypassed; 'req-skip': Request Skipped; 'error': Error; 'failure-bypass': Auth Failure Bypass;

Type: string

Supported Values: all, req, req-reject, req-auth, req-bypass, req-skip, error, failure-bypass

2.1.3 aam aaa-policy aaa-rule

Rules of AAA policy

aaa-rule Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*index*
Collection Name	*aaa-rule-list*
Collection URI	/axapi/v3/aam/aaa-policy/{name}/aaa-rule
Element Name	aaa-rule
Element URI	/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}
Element Attributes	aaa-rule_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}/stats
Schema	`aaa-rule schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/aaa-policy/{name}/aaa-rule

aaa-rule attributes

Create List

POST

/axapi/v3/aam/aaa-policy/{name}/aaa-rule

aaa-rule attributes

Get Object

GET

/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}

aaa-rule attributes

Get List

GET

/axapi/v3/aam/aaa-policy/{name}/aaa-rule

aaa-rule-list

Modify Object

POST

/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}

aaa-rule attributes

Replace Object

PUT

/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}

aaa-rule attributes

Replace List

PUT

/axapi/v3/aam/aaa-policy/{name}/aaa-rule

aaa-rule-list

Delete Object

DELETE

/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}

aaa-rule attributes

aaa-rule-list

aaa-rule-list is **JSON List** of *aaa-rule attributes*

aaa-rule-list : [

{ *aaa-rule attributes* },

{ *aaa-rule attributes* },

...

]

aaa-rule attributes

access-list

Description: access-list is a **JSON Block**. Please see below for *access-list*

Type: Object

action

Description 'allow': Allow traffic that matches this rule; 'deny': Deny traffic that matches this rule;

Type: string

Supported Values: allow, deny

auth-failure-bypass

Description Forward client request even though authentication has failed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authentication-template

Description Specify authentication template name to bind to the AAA rule

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/template*

authorize-policy

Description Specify authorization policy to bind to the AAA rule

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authorization/policy*

captcha-authz-policy

Description Specify authorization policy for CAPTCHA (Authorization policy name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authorization/policy*

domain-name

Description Specify domain name to bind to the AAA rule (ex: a10networks.com, www.a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

domain-whitelist

Description Specify the AC type class-list for the domain-whitelist

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/class-list*

host

Type: List

index

Description Specify AAA rule index

Type: number

Range: 1-256

match-encoded-uri

Description Enable URL decoding for URI matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port

Description Specify port number for aaa-rule, default is 0 for all port numbers

Type: number

Range: 1-65535

sampling-enable

Type: List

uri

Type: List

user-agent

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_count': some help string; 'hit_deny': some help string; 'hit_auth': some help string; 'hit_bypass': some help string; 'failure_bypass': some help string;

Type: string

Supported Values: all, total_count, hit_deny, hit_auth, hit_bypass, failure_bypass

uri

Specification	Value
Type	*list*
Block object keys	

match-type

Description 'contains': Match URI if request URI contains specified URI; 'ends-with': Match URI if request URI ends with specified URI; 'equals': Match URI if request URI equals specified URI; 'starts-with': Match URI if request URI starts with specified URI;

Type: string

Supported Values: contains, ends-with, equals, starts-with

uri-str

Description Specify URI string

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

user-agent

Specification	Value
Type	*list*
Block object keys	

user-agent-match-type

Description 'contains': Match request User-Agent header if it contains specified string; 'ends-with': Match request User-Agent header if it ends with specified string; 'equals': Match request User-Agent header if it equals specified string; 'starts-with': Match request User-Agent header if it starts with specified string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

user-agent-str

Description Specify request User-Agent string

Type: string

Format: string-rlx

Maximum Length: 511 characters

Maximum Length: 1 characters

host

Specification	Value
Type	*list*
Block object keys	

host-match-type

Description 'contains': Match HOST if request HTTP HOST header contains specified hostname; 'ends-with': Match HOST if request HTTP HOST header ends with specified hostname; 'equals': Match HOST if request HTTP HOST header equals specified hostname; 'starts-with': Match HOST if request HTTP HOST header starts with specified hostname;

Type: string

Supported Values: contains, ends-with, equals, starts-with

host-str

Description Specify URI string

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

access-list

Specification	Value
Type	*object*

acl-id

Description ACL id

Type: number

Range: 1-199

Mutual Exclusion: acl-id and acl-name are mutually exclusive

Reference Object: */axapi/v3/access-list/standard*

acl-name

Description 'ip-name': Apply an IP named access list; 'ipv6-name': Apply an IPv6 named access list;

Type: string

Supported Values: ip-name, ipv6-name

Mutual Exclusion: acl-name and acl-id are mutually exclusive

name

Description Specify Named Access List

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

2.1.4 aam aaa-policy aaa-rule stats

Statistics for the object aaa-rule

aaa-rule Specification

Parameter	Value
Type	*Collection*
Collection Name	*aaa-rule-list*
Collection URI	/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}
Element Name	aaa-rule
Element URI	/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}/stats
Element Attributes	aaa-rule_attributes
Partition Visibility	None
Schema	`aaa-rule schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}

aaa-rule attributes

Create List

POST

/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}

aaa-rule attributes

Get Object

GET

/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}/stats

aaa-rule attributes

Get List

GET

/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}

aaa-rule-list

Modify Object

POST

/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}/stats

aaa-rule attributes

Replace Object

PUT

/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}/stats

aaa-rule attributes

Replace List

PUT

/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}

aaa-rule-list

Delete Object

DELETE

/axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}/stats

aaa-rule attributes

aaa-rule-list

aaa-rule-list is **JSON List** of *aaa-rule attributes*

aaa-rule-list : [

{ *aaa-rule attributes* },

{ *aaa-rule attributes* },

…

]

aaa-rule attributes

index

Description Specify AAA rule index

Type: number

Range: 1-256

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

failure_bypass

Description some help string

Type: number

Format: counter

hit_auth

Description some help string

Type: number

Format: counter

hit_bypass

Description some help string

Type: number

Format: counter

hit_deny

Description some help string

Type: number

Format: counter

total_count

Description some help string

Type: number

Format: counter

2.1.5 aam aaa-policy stats

Statistics for the object aaa-policy

aaa-policy Specification

Parameter	Value
Type	*Collection*
Collection Name	*aaa-policy-list*
Collection URI	/axapi/v3/aam/aaa-policy/{name}
Element Name	aaa-policy
Element URI	/axapi/v3/aam/aaa-policy/{name}/stats
Element Attributes	aaa-policy_attributes
Partition Visibility	None
Schema	`aaa-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/aaa-policy/{name}

aaa-policy attributes

Create List

POST

/axapi/v3/aam/aaa-policy/{name}

aaa-policy attributes

Get Object

GET

/axapi/v3/aam/aaa-policy/{name}/stats

aaa-policy attributes

Get List

GET

/axapi/v3/aam/aaa-policy/{name}

aaa-policy-list

Modify Object

POST

/axapi/v3/aam/aaa-policy/{name}/stats

aaa-policy attributes

Replace Object

PUT

/axapi/v3/aam/aaa-policy/{name}/stats

aaa-policy attributes

Replace List

PUT

/axapi/v3/aam/aaa-policy/{name}

aaa-policy-list

Delete Object

DELETE

/axapi/v3/aam/aaa-policy/{name}/stats

aaa-policy attributes

aaa-policy-list

aaa-policy-list is **JSON List** of *aaa-policy attributes*

```
aaa-policy-list : [
        { aaa-policy attributes },
        { aaa-policy attributes },
        ...
    ]
```

aaa-policy attributes

aaa-rule-list

Type: List

Reference Object: */axapi/v3/aam/aaa-policy/{name}/aaa-rule/{index}*

name

Description Specify AAA policy name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

aaa-rule-list

Specification	Value
Type	*list*
Block object keys	

index

Description Specify AAA rule index

Type: number

Range: 1-256

stats

Description: stats is a **JSON Block**. Please see below for *aaa-rule-list_stats*

Type: Object

aaa-rule-list_stats

Specification	Value
Type	*object*

failure_bypass

Description some help string

Type: number

Format: counter

hit_auth

Description some help string

Type: number

Format: counter

hit_bypass

Description some help string

Type: number

Format: counter

hit_deny

Description some help string

Type: number

Format: counter

total_count

Description some help string

Type: number

Format: counter

stats

Specification	Value
Type	*object*

error

Description Error

Type: number

Format: counter

failure-bypass

Description Auth Failure Bypass

Type: number

Format: counter

req

Description Request

Type: number

Format: counter

req-auth

Description Request Matching Authentication Template

Type: number

Format: counter

req-bypass

Description Request Bypassed

Type: number

Format: counter

req-reject

Description Request Rejected

Type: number

Format: counter

req-skip

Description Request Skipped

Type: number

Format: counter

2.1.6 aam access-log oper

Operational Status for the object access-log

access-log Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	access-log
Element URI	/axapi/v3/aam/access-log/oper
Element Attributes	access-log_attributes
Partition Visibility	None
Schema	`access-log schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/access-log/oper

access-log attributes

Get Object

GET

/axapi/v3/aam/access-log/oper

access-log attributes

Modify Object

POST

/axapi/v3/aam/access-log/oper

access-log attributes

Replace Object

PUT

/axapi/v3/aam/access-log/oper

access-log attributes

Delete Object

DELETE

/axapi/v3/aam/access-log/oper

access-log attributes

access-log attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

access-status

Description

Type: string

host-name

Description

Type: string

last

Description

Type: number

log-list

Type: List

tail

Description

Type: number

target

Description

Type: string

top

Description

Type: number

total

Description

Type: number

oper_log-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

client-ip

Description

Type: string

Format: ipv4-address

counter

Description

Type: number

destination-ip

Description

Type: string

Format: ipv4-address

destination-port

Description

Type: number

host

Description

Type: string

policy

Description

Type: string

record-id

Description

Type: number

source-port

Description

Type: number

ssl-status

Description

Type: string

time

Description

Type: string

uri

Description

Type: string

user-domain

Description

Type: string

user-name

Description

Type: string

vip-name

Description

Type: string

vip-port

Description

Type: number

web-category

Description

Type: string

2.1.7 aam auth-log oper

Operational Status for the object auth-log

auth-log Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	auth-log
Element URI	/axapi/v3/aam/auth-log/oper
Element Attributes	auth-log_attributes
Partition Visibility	None
Schema	`auth-log schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/auth-log/oper

auth-log attributes

Get Object

GET

/axapi/v3/aam/auth-log/oper

auth-log attributes

Modify Object

POST

/axapi/v3/aam/auth-log/oper

auth-log attributes

Replace Object

PUT

/axapi/v3/aam/auth-log/oper

auth-log attributes

Delete Object

DELETE

/axapi/v3/aam/auth-log/oper

auth-log attributes

auth-log attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

auth-status

Description

Type: string

last

Description

Type: number

log-list

Type: List

tail

Description

Type: number

target

Description

Type: string

top

Description

Type: number

total

Description

Type: number

oper_log-list

Specification	Value
Type	*list*
Block object keys	

auth-result

Description

Type: string

client-ip

Description

Type: string

Format: ipv4-address

counter

Description

Type: number

destination-ip

Description

Type: string

Format: ipv4-address

destination-port

Description

Type: number

record-id

Description

Type: number

source-port

Description

Type: number

time

Description

Type: string

user-domain

Description

Type: string

user-name

Description

Type: string

2.1.8 aam authentication

AAM authentication related configuration

authentication Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	authentication
Element URI	/axapi/v3/aam/authentication
Element Attributes	authentication_attributes
Partition Visibility	shared
Schema	`authentication schema`

Operations Allowed:

Get Object

GET

/axapi/v3/aam/authentication

authentication_attributes

authentication attributes

account

Description: account is a **JSON Block**. Please see below for *account*

Type: Object

Reference Object: */axapi/v3/aam/authentication/account*

captcha

Description: captcha is a **JSON Block**. Please see below for *captcha*

Type: Object

Reference Object: */axapi/v3/aam/authentication/captcha*

file

Description: file is a **JSON Block**. Please see below for *file*

Type: Object

Reference Object: */axapi/v3/aam/authentication/file*

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/aam/authentication/global*

jwks

Description: jwks is a **JSON Block**. Please see below for *jwks*

Type: Object

Reference Object: */axapi/v3/aam/authentication/jwks*

jwt-list

Type: List

Reference Object: */axapi/v3/aam/authentication/jwt/{name}*

log

Description: log is a **JSON Block**. Please see below for *log*

Type: Object

Reference Object: */axapi/v3/aam/authentication/log*

logon

Description: logon is a **JSON Block**. Please see below for *logon*

Type: Object

Reference Object: */axapi/v3/aam/authentication/logon*

oauth

Description: oauth is a **JSON Block**. Please see below for *oauth*

Type: Object

Reference Object: */axapi/v3/aam/authentication/oauth*

password-retry

Description: password-retry is a **JSON Block**. Please see below for *password-retry*

Type: Object

Reference Object: */axapi/v3/aam/authentication/password-retry*

portal-list

Type: List

Reference Object: */axapi/v3/aam/authentication/portal/{name}*

relay

Description: relay is a **JSON Block**. Please see below for *relay*

Type: Object

Reference Object: */axapi/v3/aam/authentication/relay*

saml

Description: saml is a **JSON Block**. Please see below for *saml*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml*

server

Description: server is a **JSON Block**. Please see below for *server*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server*

service-group-list

Type: List

Reference Object: */axapi/v3/aam/authentication/service-group/{name}*

session

Description: session is a **JSON Block**. Please see below for *session*

Type: Object

Reference Object: */axapi/v3/aam/authentication/session*

session-attr

Description: session-attr is a **JSON Block**. Please see below for *session-attr*

Type: Object

Reference Object: */axapi/v3/aam/authentication/session-attr*

template-list

Type: List

Reference Object: */axapi/v3/aam/authentication/template/{name}*

jwt-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'redirect': redirect JWT to specific URI; 'relay': relay JWT to back-end;

Type: string

Supported Values: redirect, relay

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

issuer

Description Specify JWT issuer claim value

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

jwt-relay-uri

Description Specify JWT relay URI (for relay action)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

name

Description Specify JWT issuer template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-string

Description The JWT signature secret

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

signature-secret

Description Specify the JWT signature secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-lifetime

Description Specify JWT token lifetime (Specify lifetime (in seconds), default is 300.)

Type: number

Range: 0-86400

Default: 300

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

account

Specification	Value
Type	*object*

kerberos-spn-list

Type: List

Reference Object: */axapi/v3/aam/authentication/account/kerberos-spn/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

account_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response;

Type: string

Supported Values: all, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other

account_kerberos-spn-list

Specification	Value
Type	*list*
Block object keys	

account

Description Specify domain account for SPN

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.)

name

Description Specify AD account name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

password

Description Specify password of domain account

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

realm

Description Specify Kerberos realm

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-string

Description Password of AD account

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

service-principal-name

Description Specify service principal name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

portal-list

Specification	Value
Type	*list*
Block object keys	

change-password

Description: change-password is a **JSON Block**. Please see below for *portal-list_change-password*

Type: Object

Reference Object: */axapi/v3/aam/authentication/portal/{name}/change-password*

logo-cfg

Description: logo-cfg is a **JSON Block**. Please see below for *portal-list_logo-cfg*

Type: Object

logon

Description: logon is a **JSON Block**. Please see below for *portal-list_logon*

Type: Object

Reference Object: */axapi/v3/aam/authentication/portal/{name}/logon*

logon-fail

Description: logon-fail is a **JSON Block**. Please see below for *portal-list_logon-fail*

Type: Object

Reference Object: */axapi/v3/aam/authentication/portal/{name}/logon-fail*

name

Description 'default-portal': Default portal configuration;

Type: string

Supported Values: default-portal

notify-change-password

Description: notify-change-password is a **JSON Block**. Please see below for *portal-list_notify-change-password*

Type: Object

Reference Object: */axapi/v3/aam/authentication/portal/{name}/notify-change-password*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

portal-list_logon-fail

Specification	Value
Type	*object*

background

Description: background is a **JSON Block**. Please see below for *portal-list_logon-fail_background*

Type: Object

fail-msg-cfg

Description: fail-msg-cfg is a **JSON Block**. Please see below for *portal-list_logon-fail_fail-msg-cfg*

Type: Object

title-cfg

Description: title-cfg is a **JSON Block**. Please see below for *portal-list_logon-fail_title-cfg*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

portal-list_logon-fail_fail-msg-cfg

Specification	Value
Type	*object*

fail-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: fail-color-name and fail-color-value are mutually exclusive

fail-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: fail-color-value and fail-color-name are mutually exclusive

fail-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: fail-face and fail-font-custom are mutually exclusive

fail-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fail-font-custom and fail-face are mutually exclusive

fail-msg

Description Configure logon failure message in default logon fail page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fail-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

fail-text

Description Specify logon failure message (Default: Login Failed!!)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

portal-list_logon-fail_title-cfg

Specification	Value
Type	*object*

title

Description Configure title in default logon fail page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

title-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: title-color-name and title-color-value are mutually exclusive

title-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: title-color-value and title-color-name are mutually exclusive

title-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: title-face and title-font-custom are mutually exclusive

title-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: title-font-custom and title-face are mutually exclusive

title-size

Description Specify font size (Default: 5)

Type: number

Range: 1-7

Default: 5

title-text

Description Specify title (Default: Try Too Many Times)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

portal-list_logon-fail_background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

portal-list_logo-cfg

Specification	Value
Type	*object*

height

Description Specify logo image height (Default: 71)

Type: number

Range: 50-400

Default: 71

logo

Description Specify logo image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

width

Description Specify logo image width (Default: 134)

Type: number

Range: 50-400

Default: 134

portal-list_notify-change-password

Specification	Value
Type	*object*

background

Description: background is a **JSON Block**. Please see below for *portal-list_notify-change-password_background*

Type: Object

cfm-pwd-cfg

Description: cfm-pwd-cfg is a **JSON Block**. Please see below for *portal-list_notify-change-password_cfm-pwd-cfg*

Type: Object

change-text

Description Specify change button text in default change password notification page (Default: Change)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

change-url

Description Specify change password action URL in default change password notification page (Default: /notify_change.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

confirm-password-var

Description Specify confirm password variable name in default change password notification page (Default: cp_cfm_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

continue-text

Description Specify continue button text in default change password notification page (Default: Continue)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

continue-url

Description Specify continue action URL in default change password notification page (Default: /continue.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-password-var

Description Specify new password variable name in default change password notification page (Default: cp_new_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pwd-cfg

Description: new-pwd-cfg is a **JSON Block**. Please see below for *portal-list_notify-change-password_new-pwd-cfg*

Type: Object

old-password-var

Description Specify old password variable name in default change password notification page (Default: cp_old_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

old-pwd-cfg

Description: old-pwd-cfg is a **JSON Block**. Please see below for *portal-list_notify-change-password_old-pwd-cfg*

Type: Object

username-cfg

Description: username-cfg is a **JSON Block**. Please see below for *portal-list_notify-change-password_username-cfg*

Type: Object

username-var

Description Specify username variable name in default change password notification page (Default: cp_usr)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

portal-list_notify-change-password_new-pwd-cfg

Specification	Value
Type	*object*

new-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: new-color-name and new-color-value are mutually exclusive

new-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: new-color-value and new-color-name are mutually exclusive

new-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: new-face and new-font-custom are mutually exclusive

new-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-font-custom and new-face are mutually exclusive

new-password

Description Configure new password text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

new-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

new-text

Description Specify new password text (Default: New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

portal-list_notify-change-password_old-pwd-cfg

Specification	Value
Type	*object*

old-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: old-color-name and old-color-value are mutually exclusive

old-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: old-color-value and old-color-name are mutually exclusive

old-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: old-face and old-font-custom are mutually exclusive

old-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: old-font-custom and old-face are mutually exclusive

old-password

Description Configure old password text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

old-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

old-text

Description Specify old password text (Default: Old Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

portal-list_notify-change-password_background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

portal-list_notify-change-password_cfm-pwd-cfg

Specification	Value
Type	*object*

cfm-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: cfm-color-name and cfm-color-value are mutually exclusive

cfm-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: cfm-color-value and cfm-color-name are mutually exclusive

cfm-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: cfm-face and cfm-font-custom are mutually exclusive

cfm-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: cfm-font-custom and cfm-face are mutually exclusive

cfm-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

cfm-text

Description Specify confirm password text (Default: Confirm New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

confirm-password

Description Configure confirm password text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

portal-list_notify-change-password_username-cfg

Specification	Value
Type	*object*

user-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: user-color-name and user-color-value are mutually exclusive

user-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: user-color-value and user-color-name are mutually exclusive

user-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: user-face and user-font-custom are mutually exclusive

user-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: user-font-custom and user-face are mutually exclusive

user-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

user-text

Description Specify username text (Default: Username)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username

Description Configure username text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

portal-list_logon

Specification	Value
Type	*object*

action-url

Description Specify form action URL in default logon page (Default: /logon.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

background

Description: background is a **JSON Block**. Please see below for *portal-list_logon_background*

Type: Object

captcha-type

Description 'reCAPTCHAv2-checkbox': Google reCAPTCHAv2 Checkbox; 'reCAPTCHAv2-invisible': Google reCAPTCHAv2 Invisible; 'reCAPTCHAv3': Google reCAPTCHAv3;

Type: string

Supported Values: reCAPTCHAv2-checkbox, reCAPTCHAv2-invisible, reCAPTCHAv3

enable-CAPTCHA

Description Enable CAPTCHA in deafult logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-passcode

Description Enable passcode field in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

fail-msg-cfg

Description: fail-msg-cfg is a **JSON Block**. Please see below for *portal-list_logon_fail-msg-cfg*

Type: Object

passcode-cfg

Description: passcode-cfg is a **JSON Block**. Please see below for *portal-list_logon_passcode-cfg*

Type: Object

passcode-var

Description Specify passcode variable name in default logon page (Default: passcode)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

password-cfg

Description: password-cfg is a **JSON Block**. Please see below for *portal-list_logon_password-cfg*

Type: Object

password-var

Description Specify password variable name in default logon page (Default: pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

reCAPTCHA-cfg

Description: reCAPTCHA-cfg is a **JSON Block**. Please see below for *portal-list_logon_reCAPTCHA-cfg*

Type: Object

site-key-string

Description Site key string

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

submit-text

Description Specify submit button text in default logon page (Default: Log In)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username-cfg

Description: username-cfg is a **JSON Block**. Please see below for *portal-list_logon_username-cfg*

Type: Object

username-var

Description Specify username variable name in default logon page (Default: user)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

portal-list_logon_passcode-cfg

Specification	Value
Type	*object*

passcode

Description Configure passcode text in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

passcode-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

passcode-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: passcode-color-name and passcode-color-value are mutually exclusive

passcode-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: passcode-color-value and passcode-color-name are mutually exclusive

passcode-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: passcode-face and passcode-font-custom are mutually exclusive

passcode-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

passcode-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: passcode-font-custom and passcode-face are mutually exclusive

passcode-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

passcode-text

Description Specify passcode text (Default: Passcode)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

portal-list_logon_reCAPTCHA-cfg

Specification	Value
Type	*object*

reCAPTCHA-action

Description Specify reCAPTCHA action (Specify action string, only accept alphanumeric, underscore, and slash (Default: A10_DEFAULT_LOGON))

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: A10_DEFAULT_LOGON

reCAPTCHA-badge

Description 'bottom-left': bottom left corner; 'bottom-right': bottom right corner;

Type: string

Supported Values: bottom-left, bottom-right

Default: bottom-right

reCAPTCHA-size

Description 'normal': normal size; 'compact': compact size;

Type: string

Supported Values: normal, compact

Default: normal

reCAPTCHA-theme

Description 'light': light theme; 'dark': dark theme;

Type: string

Supported Values: light, dark

Default: light

portal-list_logon_background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

portal-list_logon_fail-msg-cfg

Specification	Value
Type	*object*

authz-fail-msg

Description Configure authorization failure message in default logon page, its text attributes follow fail-msg's (Specify authorization failure message (Default: Authorization failed. Please contact your system administrator.))

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

fail-color

Description Specify font color (Default: red)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: red

Mutual Exclusion: fail-color-name and fail-color-value are mutually exclusive

fail-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: fail-color-value and fail-color-name are mutually exclusive

fail-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: fail-face and fail-font-custom are mutually exclusive

fail-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fail-font-custom and fail-face are mutually exclusive

fail-msg

Description Configure login failure message in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fail-size

Description Specify font size (Default: 5)

Type: number

Range: 1-7

Default: 5

fail-text

Description Specify login failure message (Default: Invalid username or password. Please try again.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

portal-list_logon_password-cfg

Specification	Value
Type	*object*

pass-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

pass-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: pass-color-name and pass-color-value are mutually exclusive

pass-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: pass-color-value and pass-color-name are mutually exclusive

pass-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: pass-face and pass-font-custom are mutually exclusive

pass-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

pass-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: pass-font-custom and pass-face are mutually exclusive

pass-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

pass-text

Description Specify password text (Default: Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

password

Description Configure password text in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

portal-list_logon_username-cfg

Specification	Value
Type	*object*

user-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: user-color-name and user-color-value are mutually exclusive

user-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: user-color-value and user-color-name are mutually exclusive

user-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: user-face and user-font-custom are mutually exclusive

user-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: user-font-custom and user-face are mutually exclusive

user-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

user-text

Description Specify username text (Default: User Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username

Description Configure username text in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

portal-list_change-password

Specification	Value
Type	*object*

action-url

Description Specify form action URL in default change password page (Default: /change.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

background

Description: background is a **JSON Block**. Please see below for *portal-list_change-password_background*

Type: Object

cfm-pwd-cfg

Description: cfm-pwd-cfg is a **JSON Block**. Please see below for *portal-list_change-password_cfm-pwd-cfg*

Type: Object

confirm-password-var

Description Specify confirm password variable name in default change password page (Default: cp_cfm_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-password-var

Description Specify new password variable name in default change password page (Default: cp_new_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pwd-cfg

Description: new-pwd-cfg is a **JSON Block**. Please see below for *portal-list_change-password_new-pwd-cfg*

Type: Object

old-password-var

Description Specify old password variable name in default change password page (Default: cp_old_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

old-pwd-cfg

Description: old-pwd-cfg is a **JSON Block**. Please see below for *portal-list_change-password_old-pwd-cfg*

Type: Object

reset-text

Description Specify reset button text in default change password page (Default: Reset)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

submit-text

Description Specify submit button text in default change password page (Default: Submit)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

title-cfg

Description: title-cfg is a **JSON Block**. Please see below for *portal-list_change-password_title-cfg*

Type: Object

username-cfg

Description: username-cfg is a **JSON Block**. Please see below for *portal-list_change-password_username-cfg*

Type: Object

username-var

Description Specify username variable name in default change password page (Default: cp_usr)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

portal-list_change-password_new-pwd-cfg

Specification	Value
Type	*object*

new-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: new-color-name and new-color-value are mutually exclusive

new-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: new-color-value and new-color-name are mutually exclusive

new-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: new-face and new-font-custom are mutually exclusive

new-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-font-custom and new-face are mutually exclusive

new-password

Description Configure new password text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

new-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

new-text

Description Specify new password text (Default: New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

portal-list_change-password_title-cfg

Specification	Value
Type	*object*

title

Description Configure title in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

title-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: title-color-name and title-color-value are mutually exclusive

title-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: title-color-value and title-color-name are mutually exclusive

title-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: title-face and title-font-custom are mutually exclusive

title-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: title-font-custom and title-face are mutually exclusive

title-size

Description Specify font size (Default: 5)

Type: number

Range: 1-7

Default: 5

title-text

Description Specify title (Default: Please Change Your Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

portal-list_change-password_old-pwd-cfg

Specification	Value
Type	*object*

old-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: old-color-name and old-color-value are mutually exclusive

old-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: old-color-value and old-color-name are mutually exclusive

old-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: old-face and old-font-custom are mutually exclusive

old-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: old-font-custom and old-face are mutually exclusive

old-password

Description Configure old password text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

old-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

old-text

Description Specify old password text (Default: Old Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

portal-list_change-password_background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

portal-list_change-password_cfm-pwd-cfg

Specification	Value
Type	*object*

cfm-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: cfm-color-name and cfm-color-value are mutually exclusive

cfm-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: cfm-color-value and cfm-color-name are mutually exclusive

cfm-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: cfm-face and cfm-font-custom are mutually exclusive

cfm-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: cfm-font-custom and cfm-face are mutually exclusive

cfm-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

cfm-text

Description Specify confirm password text (Default: Confirm New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

confirm-password

Description Configure confirm password text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

portal-list_change-password_username-cfg

Specification	Value
Type	*object*

user-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: user-color-name and user-color-value are mutually exclusive

user-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: user-color-value and user-color-name are mutually exclusive

user-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: user-face and user-font-custom are mutually exclusive

user-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: user-font-custom and user-face are mutually exclusive

user-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

user-text

Description Specify username text (Default: Username)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username

Description Configure username text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log

Specification	Value
Type	*object*

enable

Description Enable authentication logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

facility

Description 'local0': Local use; 'local1': Local use; 'local2': Local use; 'local3': Local use; 'local4': Local use; 'local5': Local use; 'local6': Local use; 'local7': Local use;

Type: string

Supported Values: local0, local1, local2, local3, local4, local5, local6, local7

Default: local0

format

Description 'syslog': Syslog Format (default); 'cef': Common Event Format;

Type: string

Supported Values: syslog, cef

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

relay

Specification	Value
Type	*object*

form-based

Description: form-based is a **JSON Block**. Please see below for *relay_form-based*

Type: Object

Reference Object: */axapi/v3/aam/authentication/relay/form-based*

http-basic

Description: http-basic is a **JSON Block**. Please see below for *relay_http-basic*

Type: Object

Reference Object: */axapi/v3/aam/authentication/relay/http-basic*

kerberos

Description: kerberos is a **JSON Block**. Please see below for *relay_kerberos*

Type: Object

Reference Object: */axapi/v3/aam/authentication/relay/kerberos*

oauth-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/oauth/{name}*

saml-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/saml/{name}*

ws-federation-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/ws-federation/{name}*

relay_form-based

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/form-based/instance/{name}*

relay_form-based_instance-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify form-based authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-form-inst-tmpl*

request-uri-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri/{match-type}+{uri}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

relay_form-based_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'invalid_srv_rsp': Invalid Server Response; 'post_fail': POST Failed; 'invalid_cred': Invalid Credential; 'bad_req': Bad Request; 'not_fnd': Not Found; 'error': Internal Server Error; 'other_error': Other Error;

Type: string

Supported Values: all, request, invalid_srv_rsp, post_fail, invalid_cred, bad_req, not_fnd, error, other_error

relay_form-based_instance-list_request-uri-list

Specification	Value
Type	*list*
Block object keys	

action-uri

Description Specify the action-URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

cookie

Description: cookie is a **JSON Block**. Please see below for *relay_form-based_instance-list_request-uri-list_cookie*

Type: Object

domain-variable

Description Specify domain variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

max-packet-collect-size

Description Specify the max packet collection size in bytes, default is 1MB

Type: number

Range: 1024-2097152

Default: 1048576

other-variables

Description Specify other variables (n1=v1&n2=v2) in form relay

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

password-variable

Description Specify password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uri

Description Specify request URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-variable

Description Specify username variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

relay_form-based_instance-list_request-uri-list_cookie

Specification	Value
Type	*object*

cookie-value

Description: cookie-value is a **JSON Block**. Please see below for *relay_form-based_instance-list_request-uri-list_cookie_cookie-value*

Type: Object

relay_form-based_instance-list_request-uri-list_cookie_cookie-value

Specification	Value
Type	*object*

cookie-value

Description Specify cookie in POST packet

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

relay_ws-federation-list

Specification	Value
Type	*list*
Block object keys	

application-server

Description 'sharepoint': Microsoft SharePoint; 'exchange-owa': Microsoft Exchange OWA;

Type: string

Supported Values: sharepoint, exchange-owa

authentication-uri

Description Specify WS-Federation relay URI, default is /_trust/

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

name

Description Specify WS-Federation authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-ws-fed-tmpl*

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

relay_ws-federation-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'success': Success; 'failure': Failure;

Type: string

Supported Values: all, request, success, failure

relay_oauth-list

Specification	Value
Type	*list*
Block object keys	

all

Description All URI can be relay

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: all and match-type are mutually exclusive

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

Mutual Exclusion: match-type and all are mutually exclusive

match-uri

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

name

Description Specify oauth authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

relay-type

Description 'access-token': Relay access token to backend; 'id-token': Relay JWT to backend;

Type: string

Supported Values: access-token, id-token

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

relay_oauth-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'relay-req': some help string; 'relay-succ': some help string; 'relay-fail': some help string;

Type: string

Supported Values: all, relay-req, relay-succ, relay-fail

relay_saml-list

Specification	Value
Type	*list*
Block object keys	

idp-auth-uri

Description Specify the URI for IDP to handle SAML authentication request

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

match-uri

Description Match URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

method

Description 'get-from-backend': Get RelayState parameter from backend server; 'request-uri': Use the (URL encoded) current request-uri as the RelayState;

Type: string

Supported Values: get-from-backend, request-uri

Mutual Exclusion: method and value are mutually exclusive

name

Description Specify SAML authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

relay-acs-uri

Description Specify the backend server assertion consuming service URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

retry-number

Description Specify how many continuous fail for SAML relay will trigger. Default will not retry.

Type: number

Range: 0-10

Default: 0

sampling-enable

Type: List

server-cookie-name

Description Specify the cookie name that used by backend server for authenticated users

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Use the fixed string as the RelayState

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: value and method are mutually exclusive

relay_saml-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'success': Success; 'failure': Failure; 'error': Error;

Type: string

Supported Values: all, request, success, failure, error

relay_kerberos

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/kerberos/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

relay_kerberos_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-send': Total Request Send; 'response-get': Total Response Get; 'timeout-error': Total Timeout; 'other-error': Total Other Error; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response; 'job-start-error': Total Job Start Error; 'polling-control-error': Total Polling Control Error;

Type: string

Supported Values: all, request-send, response-get, timeout-error, other-error, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error

relay_kerberos_instance-list

Specification	Value
Type	*list*
Block object keys	

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

kerberos-account

Description Specify the kerberos account name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

kerberos-kdc

Description Specify the kerberos kdc ip or host name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: kerberos-kdc and kerberos-kdc-service-group are mutually exclusive

kerberos-kdc-service-group

Description Specify an authentication service group as multiple KDCs

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: kerberos-kdc-service-group and kerberos-kdc are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

kerberos-realm

Description Specify the kerberos realm

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

name

Description Specify Kerberos authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

password

Description Specify password of Kerberos password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port

Description Specify The KDC port, default is 88

Type: number

Range: 1-65535

Default: 88

sampling-enable

Type: List

secret-string

Description The kerberos client password

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

timeout

Description Specify timeout for kerberos transport, default is 10 seconds (The timeout, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

relay_kerberos_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-send': Request Send; 'response-receive': Response Receive; 'current-requests-of-user': Current Pending Requests of User; 'tickets': Tickets;

Type: string

Supported Values: all, request-send, response-receive, current-requests-of-user, tickets

relay_http-basic

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/http-basic/instance/{name}*

relay_http-basic_instance-list

Specification	Value
Type	*list*
Block object keys	

domain

Description Specify user domain, default is null

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-format

Description 'user-principal-name': Append domain with User Principal Name format. (e.g. user@domain); 'down-level-logon-name': Append domain with Down-Level Logon Name format. (e.g. domainuser);

Type: string

Supported Values: user-principal-name, down-level-logon-name

Default: down-level-logon-name

name

Description Specify HTTP basic authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-hbase-inst-tmpl*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

relay_http-basic_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'success': Success; 'no-creds': No Credential; 'bad-req': Bad Request; 'unauth': Unauthorized; 'forbidden': Forbidden; 'not-found': Not Found; 'server-error': Internal Server Error; 'unavailable': Service Unavailable;

Type: string

Supported Values: all, success, no-creds, bad-req, unauth, forbidden, not-found, server-error, unavailable

jwks

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

session-attr

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logon

Specification	Value
Type	*object*

form-based-list

Type: List

Reference Object: */axapi/v3/aam/authentication/logon/form-based/{name}*

http-authenticate

Description: http-authenticate is a **JSON Block**. Please see below for *logon_http-authenticate*

Type: Object

Reference Object: */axapi/v3/aam/authentication/logon/http-authenticate*

logon_form-based-list

Specification	Value
Type	*list*
Block object keys	

account-lock

Description Lock the account when the failed logon attempts is exceeded

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

challenge-variable

Description Specify challenge variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-page-cfg

Description: cp-page-cfg is a **JSON Block**. Please see below for *logon_form-based-list_cp-page-cfg*

Type: Object

csp-support

Description: csp-support is a **JSON Block**. Please see below for *logon_form-based-list_csp-support*

Type: Object

duration

Description The time an account remains locked in seconds (default 1800)

Type: number

Range: 1-86400

Default: 1800

hsts-timeout

Description Set HSTS policy expired timeout in seconds, 0 means to disable HSTS policy

Type: number

Range: 0-315360000

logon-page-cfg

Description: logon-page-cfg is a **JSON Block**. Please see below for *logon_form-based-list_logon-page-cfg*

Type: Object

name

Description Specify form-based authentication logon name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pin-variable

Description Specify new-pin variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-variable

Description Specify next-token variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

notify-cp-page-cfg

Description: notify-cp-page-cfg is a **JSON Block**. Please see below for *logon_form-based-list_notify-cp-page-cfg*

Type: Object

portal

Description: portal is a **JSON Block**. Please see below for *logon_form-based-list_portal*

Type: Object

retry

Description Maximum number of consecutive failed logon attempts (default 3)

Type: number

Range: 1-32

Default: 3

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logon_form-based-list_csp-support

Specification	Value
Type	*object*

none

Description Set CSP frame-ancestors to none (also X-Frame-Options deny)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: none, self, and specificURI are mutually exclusive

optional-second-URI

Description Set optional second customized CSP URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

self

Description Set CSP frame-ancestors to self (also X-Frame-Options same-origin)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: self and none are mutually exclusive

specificURI

Description Set customized CSP frame-ancestors (maximum 2 URIs can be set)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: specificURI and none are mutually exclusive

logon_form-based-list_notify-cp-page-cfg

Specification	Value
Type	*object*

notifychangepassword-change-url

Description Specify change password action url for notifychangepassword form

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

notifychangepassword-continue-url

Description Specify continue action url for notifychangepassword form

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

logon_form-based-list_portal

Specification	Value
Type	*object*

challenge-page

Description Specify challenge page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-page, new-pin-page, and next-token-page are mutually exclusive

changepasswordpage

Description Specify change password page name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

default-portal

Description Use default portal

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: default-portal and portal-name are mutually exclusive

failpage

Description Specify logon fail page name (portal fail page name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logon

Description Specify logon page name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pin-page

Description Specify new PIN page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-pin-page and challenge-page are mutually exclusive

next-token-page

Description Specify next token page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: next-token-page and challenge-page are mutually exclusive

notifychangepasswordpage

Description Specify change password notification page name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

portal-name

Description Specify portal name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: portal-name and default-portal are mutually exclusive

logon_form-based-list_logon-page-cfg

Specification	Value
Type	*object*

action-url

Description Specify form submission action url

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

authz-failure-message

Description Specify authorization failure message shown in logon page (Specify error string, default is "Authorization failed. Please contact your system administrator.")

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

captcha-variable

Description Specify captcha variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

disable-change-password-link

Description Don't display change password link on logon page forcibly even backend authentication server supports it (LDAP or Kerberos)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

login-failure-message

Description Specify login failure message shown in logon page (Specify error string, default is “Invalid username or password. Please try again.”)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

passcode-variable

Description Specify passcode variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

password-variable

Description Specify password variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username-variable

Description Specify username variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logon_form-based-list_cp-page-cfg

Specification	Value
Type	*object*

changepassword-url

Description Specify changepassword form submission action url (changepassword action url)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

cp-cfm-pwd-enum

Description 'changepassword-password-confirm-variable': Specify password confirm variable name in form submission;

Type: string

Supported Values: changepassword-password-confirm-variable

cp-cfm-pwd-var

Description Specify password confirm variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-new-pwd-enum

Description 'changepassword-new-password-variable': Specify new password variable name in form submission;

Type: string

Supported Values: changepassword-new-password-variable

cp-new-pwd-var

Description Specify new password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-old-pwd-enum

Description 'changepassword-old-password-variable': Specify old password variable name in form submission;

Type: string

Supported Values: changepassword-old-password-variable

cp-old-pwd-var

Description Specify old password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-user-enum

Description 'changepassword-username-variable': Specify username variable name in form submission;

Type: string

Supported Values: changepassword-username-variable

cp-user-var

Description Specify username variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logon_http-authenticate

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}*

logon_http-authenticate_instance-list

Specification	Value
Type	*list*
Block object keys	

account-lock

Description Lock the account when the failed logon attempts is exceeded

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-method

Description: auth-method is a **JSON Block**. Please see below for *logon_http-authenticate_instance-list_auth-method*

Type: Object

duration

Description The time an account remains locked in seconds (default 1800)

Type: number

Range: 1-86400

Default: 1800

hsts-timeout

Description Set HSTS policy expired timeout in seconds, 0 means to disable HSTS policy

Type: number

Range: 0-315360000

name

Description Specify HTTP-Authenticate logon name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-logon-http-ins-tmpl*

retry

Description Maximum number of consecutive failed logon attempts (default 3)

Type: number

Range: 1-32

Default: 3

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logon_http-authenticate_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'spn_krb_request': SPN Kerberos Request; 'spn_krb_success': SPN Kerberos Success; 'spn_krb_faiure': SPN Kerberos Failure;

Type: string

Supported Values: all, spn_krb_request, spn_krb_success, spn_krb_faiure

logon_http-authenticate_instance-list_auth-method

Specification	Value
Type	*object*

basic

Description: basic is a **JSON Block**. Please see below for *logon_http-authenticate_instance-list_auth-method_basic*

Type: Object

negotiate

Description: negotiate is a **JSON Block**. Please see below for *logon_http-authenticate_instance-list_auth-method_negotiate*

Type: Object

logon_http-authenticate_instance-list_auth-method_negotiate

Specification	Value
Type	*object*

negotiate-enable

Description Enable SPENGO logon

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logon_http-authenticate_instance-list_auth-method_basic

Specification	Value
Type	*object*

basic-enable

Description Enable Basic logon

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

basic-realm

Description Specify realm for basic logon

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

challenge-page

Description Specify challenge page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-page and new-pin-page are mutually exclusive

challenge-response-form

Description Specify challenge-response form for RSA-RADIUS authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

challenge-variable

Description Specify challenge variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pin-page

Description Specify new PIN page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-pin-page and challenge-page are mutually exclusive

new-pin-variable

Description Specify new PIN variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-page

Description Specify next-token page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-variable

Description Specify next-token variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

service-group-list

Specification	Value
Type	*list*
Block object keys	

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable health check

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

lb-method

Description 'round-robin': Round robin on server level;

Type: string

Supported Values: round-robin

member-list

Type: List

Reference Object: */axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}*

name

Description Specify AAM service group name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-service-group-tmpl*

protocol

Description 'tcp': TCP AAM service; 'udp': UDP AAM service;

Type: string

Supported Values: tcp, udp

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service-group-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'server_selection_fail_drop': Drops due to Service selection failure; 'server_selection_fail_reset': Resets sent out for Service selection failure; 'service_peak_conn': Peak connection count for the Service Group; 'service_healthy_host': Service Group healthy host count; 'service_unhealthy_host': Service Group unhealthy host count; 'service_req_count': Service Group request count; 'service_resp_count': Service Group response count; 'service_resp_2xx': Service Group response 2xx count; 'service_resp_3xx': Service Group response 3xx count; 'service_resp_4xx': Service Group response 4xx count; 'service_resp_5xx': Service Group response 5xx count; 'service_curr_conn_overflow': Current connection counter overflow count;

Type: string

Supported Values: all, server_selection_fail_drop, server_selection_fail_reset, service_peak_conn, service_healthy_host, service_unhealthy_host, service_req_count, service_resp_count, service_resp_2xx, service_resp_3xx, service_resp_4xx, service_resp_5xx, service_curr_conn_overflow

service-group-list_member-list

Specification	Value
Type	*list*
Block object keys	

member-priority

Description Priority of Port in the Group

Type: number

Range: 1-16

member-state

Description 'enable': Enable member service port; 'disable': Disable member service port;

Type: string

Supported Values: enable, disable

Default: enable

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/server/ldap*

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-service-group-mem-tmpl*

port

Description Port number

Type: number

Range: 1-65534

Default: 65534

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service-group-list_member-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_fwd_bytes': Bytes processed in forward direction; 'total_fwd_pkts': Packets processed in forward direction; 'total_rev_bytes': Bytes processed in reverse direction; 'total_rev_pkts': Packets processed in reverse direction; 'total_conn': Total established connections; 'total_rev_pkts_inspected': Total reverse packets inspected; 'total_rev_pkts_inspected_status_code_2xx': Total reverse packets inspected status code 2xx; 'total_rev_pkts_inspected_status_code_non_5xx': Total reverse packets inspected status code non 5xx; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total requests successful; 'peak_conn': some help string; 'response_time': Response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time; 'curr_ssl_conn': Current SSL connections; 'total_ssl_conn': Total SSL connections; 'curr_conn_overflow': Current connection counter overflow count;

Type: string

Supported Values: all, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_conn, total_rev_pkts_inspected, total_rev_pkts_inspected_status_code_2xx, total_rev_pkts_inspected_status_code_non_5xx, curr_req, total_req, total_req_succ, peak_conn, response_time, fastest_rsp_time, slowest_rsp_time, curr_ssl_conn, total_ssl_conn, curr_conn_overflow

global

Specification	Value
Type	*object*

max-auth-resp-size

Description Specify the max auth resp size in bytes(from authd to a10lb), default is 64KB

Type: number

Range: 2048-131072

Default: 65536

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'requests': Total Authentication Request; 'responses': Total Authentication Response; 'misses': Total Authentication Request Missed; 'ocsp-stapling-requests-to-a10authd': Total OCSP Stapling Request; 'ocsp-stapling-responses-from-a10authd': Total OCSP Stapling Response; 'opened-socket': Total AAM Socket Opened; 'open-socket-failed': Total AAM Open Socket Failed; 'connect': Total AAM Connection; 'connect-failed': Total AAM Connect Failed; 'created-timer': Total AAM Timer Created; 'create-timer-failed': Total AAM Timer Creation Failed; 'total-request': Total Request Received by A10 Auth Service; 'get-socket-option-failed': Total AAM Get Socket Option Failed; 'aflex-authz-succ': Total Authorization success number in aFleX; 'aflex-authz-fail': Total Authorization failure number in aFleX; 'authn-success': Total Authentication success number; 'authn-failure': Total Authentication failure number; 'authz-success': Total Authorization success number; 'authz-failure': Total Authorization failure number; 'active-session': Total Active Auth-Sessions; 'active-user': Total Active Users; 'dns-resolve-failed': Total AAM DNS resolve failed; 'domain-wlist-match': Total DOMAIN WHITELIST match number; 'domain-wlist-unmatch': Total DOMAIN WHITELIST unmatch number;

Type: string

Supported Values: all, requests, responses, misses, ocsp-stapling-requests-to-a10authd, ocsp-stapling-responses-from-a10authd, opened-socket, open-socket-failed, connect, connect-failed, created-timer, create-timer-failed, total-request, get-socket-option-failed, aflex-authz-succ, aflex-authz-fail, authn-success, authn-failure, authz-success, authz-failure, active-session, active-user, dns-resolve-failed, domain-wlist-match, domain-wlist-unmatch, auth_ctx_num

saml

Specification	Value
Type	*object*

global

Description: global is a **JSON Block**. Please see below for *saml_global*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml/global*

identity-provider-list

Type: List

Reference Object: */axapi/v3/aam/authentication/saml/identity-provider/{name}*

metadata

Description: metadata is a **JSON Block**. Please see below for *saml_metadata*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml/metadata*

metadata-monitor

Description: metadata-monitor is a **JSON Block**. Please see below for *saml_metadata-monitor*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml/metadata-monitor*

service-provider-list

Type: List

Reference Object: */axapi/v3/aam/authentication/saml/service-provider/{name}*

session

Description: session is a **JSON Block**. Please see below for *saml_session*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml/session*

saml_service-provider-list

Specification	Value
Type	*list*
Block object keys	

SP-initiated-single-logout-service

Type: List

acs-uri-bypass

Description After user authenticated, bypass requests with assertion-consuming-service location URI

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

adfs-ws-federation

Description: adfs-ws-federation is a **JSON Block**. Please see below for *saml_service-provider-list_adfs-ws-federation*

Type: Object

artifact-resolution-service

Type: List

assertion-consuming-service

Type: List

bad-request-redirect-url

Description Specify URL to redirect

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

certificate

Description SAML service provider certificate file (PFX format is required.)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

entity-id

Description SAML service provider entity ID

Type: string

Format: string-rlx

Maximum Length: 1023 characters

Maximum Length: 1 characters

metadata-export-service

Description: metadata-export-service is a **JSON Block**. Please see below for *saml_service-provider-list_metadata-export-service*

Type: Object

name

Description Specify SAML authentication service provider name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-saml-service-prov-tmpl*

require-assertion-signed

Description: require-assertion-signed is a **JSON Block**. Please see below for *saml_service-provider-list_require-assertion-signed*

Type: Object

saml-request-signed

Description: saml-request-signed is a **JSON Block**. Please see below for *saml_service-provider-list_saml-request-signed*

Type: Object

sampling-enable

Type: List

service-url

Description SAML service provider service URL (ex. https://www.a10networks.com/saml.sso)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

signature-algorithm

Description 'SHA1': use SHA1 as signature algorithm (default); 'SHA256': use SHA256 as signature algorithm;

Type: string

Supported Values: SHA1, SHA256

Default: SHA1

single-logout-service

Type: List

soap-tls-certificate-validate

Description: soap-tls-certificate-validate is a **JSON Block**. Please see below for *saml_service-provider-list_soap-tls-certificate-validate*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

username-attribute

Description Specify the assertion attribute which value is username

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

saml_service-provider-list_require-assertion-signed

Specification	Value
Type	*object*

require-assertion-signed-enable

Description Enable required signing of SAML assertion

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

saml_service-provider-list_single-logout-service

Specification	Value
Type	*list*
Block object keys	

SLO-binding

Description 'post': POST binding of single logout service; 'redirect': Redirect binding of single logout service; 'soap': SOAP binding of single logout service;

Type: string

Supported Values: post, redirect, soap

SLO-location

Description The location of name-id management service. (ex. /SAML/POST)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

saml_service-provider-list_assertion-consuming-service

Specification	Value
Type	*list*
Block object keys	

assertion-binding

Description 'artifact': Artifact binding of assertion consuming service; 'paos': PAOS binding of assertion consuming service; 'post': POST binding of assertion consuming service;

Type: string

Supported Values: artifact, paos, post

assertion-index

Description The index of assertion consuming service

Type: number

Range: 0-5

assertion-location

Description The location of assertion consuming service endpoint. (ex. /SAML/POST)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

saml_service-provider-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'sp-metadata-export-req': Metadata Export Request; 'sp-metadata-export-success': Metadata Export Success; 'login-auth-req': Login Authentication Request; 'login-auth-resp': Login Authentication Response; 'acs-req': SAML Single-Sign-On Request; 'acs-success': SAML Single-Sign-On Success; 'acs-authz-fail': SAML Single-Sign-On Authorization Fail; 'acs-error': SAML Single-Sign-On Error; 'slo-req': Single Logout Request; 'slo-success': Single Logout Success; 'slo-error': Single Logout Error; 'sp-slo-req': SP-initiated Single Logout Request; 'glo-slo-success': Total Global Logout Success; 'loc-slo-success': Total Local Logout Success; 'par-slo-success': Total Partial Logout Success; 'other-error': Other Error;

Type: string

Supported Values: all, sp-metadata-export-req, sp-metadata-export-success, login-auth-req, login-auth-resp, acs-req, acs-success, acs-authz-fail, acs-error, slo-req, slo-success, slo-error, sp-slo-req, glo-slo-success, loc-slo-success, par-slo-success, other-error

saml_service-provider-list_saml-request-signed

Specification	Value
Type	*object*

saml-request-signed-disable

Description Disable signing signature for SAML (Authn/Artifact Resolve) requests

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

saml_service-provider-list_SP-initiated-single-logout-service

Specification	Value
Type	*list*
Block object keys	

SP-SLO-location

Description The location of SP-initiated single logout service endpoint. (ex. /Logout)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

asynchronous

Description the IDP will not send a logout response to AX

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

saml_service-provider-list_adfs-ws-federation

Specification	Value
Type	*object*

ws-federation-enable

Description Enable ADFS WS-Federation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

saml_service-provider-list_soap-tls-certificate-validate

Specification	Value
Type	*object*

soap-tls-certificate-validate-disable

Description Disable verification for server certificate in TLS session when resolving artificate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

saml_service-provider-list_artifact-resolution-service

Specification	Value
Type	*list*
Block object keys	

artifact-binding

Description 'soap': SOAP binding of artifact resolution service;

Type: string

Supported Values: soap

artifact-index

Description The index of artifact resolution service

Type: number

Range: 0-5

artifact-location

Description The location of artifact resolution service. (ex. /SAML/POST)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

saml_service-provider-list_metadata-export-service

Specification	Value
Type	*object*

md-export-location

Description Specify the URI to export SP metadata (Export URI. Default is /A10SP_Metadata)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sign-xml

Description Sign exported SP metadata XML with SP's certificate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

saml_identity-provider-list

Specification	Value
Type	*list*
Block object keys	

metadata

Description URL of SAML identity provider's metadata file

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

name

Description SAML authentication identity provider name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

reload-interval

Description Specify URI metadata reload period (Specify URI metadata reload period in seconds, default is 28800)

Type: number

Range: 1-86400

Default: 28800

reload-metadata

Description Reload IdP's metadata immediately

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

saml_global

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

saml_global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'requests-to-a10saml': Total Request to A10 SAML Service; 'responses-from-a10saml': Total Response from A10 SAML Service; 'sp-metadata-export-req': Total Metadata Export Request; 'sp-metadata-export-success': Toal Metadata Export Success; 'login-auth-req': Total Login Authentication Request; 'login-auth-resp': Total Login Authentication Response; 'acs-req': Total SAML Single-Sign-On Request; 'acs-success': Total SAML Single-Sign-On Success; 'acs-authz-fail': Total SAML Single-Sign-On Authorization Fail; 'acs-error': Total SAML Single-Sign-On Error; 'slo-req': Total Single Logout Request; 'slo-success': Total Single Logout Success; 'slo-error': Total Single Logout Error; 'sp-slo-req': Total SP-initiated Single Logout Request; 'glo-slo-success': Total Global Logout Success; 'loc-slo-success': Total Local Logout Success; 'par-slo-success': Total Partial Logout Success; 'relay-req': some help string; 'relay-success': some help string; 'relay-fail': some help string; 'relay-error': some help string; 'other-error': Total Other Error;

Type: string

Supported Values: all, requests-to-a10saml, responses-from-a10saml, sp-metadata-export-req, sp-metadata-export-success, login-auth-req, login-auth-resp, acs-req, acs-success, acs-authz-fail, acs-error, slo-req, slo-success, slo-error, sp-slo-req, glo-slo-success, loc-slo-success, par-slo-success, relay-req, relay-success, relay-fail, relay-error, other-error

saml_session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

saml_metadata-monitor

Specification	Value
Type	*object*

acs-continuous-fail-threshold

Description Specify how many ACS continuous fails will trigger metadata reload (ACS continuous fail threshold (default: 10))

Type: number

Range: 2-254

acs-missing-period

Description Specify how long no acs request will trigger metadata reload (in seconds (default: 60))

Type: number

Range: 1-254

acs-missing-threshold

Description Specify how many ACS request missing in the period will trigger metadata reload (ACS request missing threshold (default: 100))

Type: number

Range: 10-254

status

Description 'enable': Enable SAML metadata out-of-sync detection; 'disable': Disable SAML metadata out-of-sync detection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

saml_metadata

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server

Specification	Value
Type	*object*

ldap

Description: ldap is a **JSON Block**. Please see below for *server_ldap*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/ldap*

ocsp

Description: ocsp is a **JSON Block**. Please see below for *server_ocsp*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/ocsp*

radius

Description: radius is a **JSON Block**. Please see below for *server_radius*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/radius*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

windows

Description: windows is a **JSON Block**. Please see below for *server_windows*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/windows*

server_windows

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/windows/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server_windows_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'kerberos-request-send': Total Kerberos Request; 'kerberos-response-get': Total Kerberos Response; 'kerberos-timeout-error': Total Kerberos Timeout; 'kerberos-other-error': Total Kerberos Other Error; 'ntlm-authentication-success': Total NTLM Authentication Success; 'ntlm-authentication-failure': Total NTLM Authentication Failure; 'ntlm-proto-negotiation-success': Total NTLM Protocol Negotiation Success; 'ntlm-proto-negotiation-failure': Total NTLM Protocol Negotiation Failure; 'ntlm-session-setup-success': Total NTLM Session Setup Success; 'ntlm-session-setup-failed': Total NTLM Session Setup Failure; 'kerberos-request-normal': Total Kerberos Normal Request; 'kerberos-request-dropped': Total Kerberos Dropped Request; 'kerberos-response-success': Total Kerberos Success Response; 'kerberos-response-failure': Total Kerberos Failure Response; 'kerberos-response-error': Total Kerberos Error Response; 'kerberos-response-timeout': Total Kerberos Timeout Response; 'kerberos-response-other': Total Kerberos Other Response; 'kerberos-job-start-error': Total Kerberos Job Start Error; 'kerberos-polling-control-error': Total Kerberos Polling Control Error; 'ntlm-prepare-req-success': Total NTLM Prepare Request Success; 'ntlm-prepare-req-failed': Total NTLM Prepare Request Failed; 'ntlm-timeout-error': Total NTLM Timeout; 'ntlm-other-error': Total NTLM Other Error; 'ntlm-request-normal': Total NTLM Normal Request; 'ntlm-request-dropped': Total NTLM Dropped Request; 'ntlm-response-success': Total NTLM Success Response; 'ntlm-response-failure': Total NTLM Failure Response; 'ntlm-response-error': Total NTLM Error Response; 'ntlm-response-timeout': Total NTLM Timeout Response; 'ntlm-response-other': Total NTLM Other Response; 'ntlm-job-start-error': Total NTLM Job Start Error; 'ntlm-polling-control-error': Total NTLM Polling Control Error; 'kerberos-pw-expiry': Total Kerberos password expiry; 'kerberos-pw-change-success': Total Kerberos password change success; 'kerberos-pw-change-failure': Total Kerberos password change failure; 'kerberos-validate-kdc-success': Total Kerberos KDC Validation Success; 'kerberos-validate-kdc-failure': Total Kerberos KDC Validation Failure; 'kerberos-generate-kdc-keytab-success': Total Kerberos KDC Keytab Generation Success; 'kerberos-generate-kdc-keytab-failure': Total Kerberos KDC Keytab Generation Failure; 'kerberos-delete-kdc-keytab-success': Total Kerberos KDC Keytab Deletion Success; 'kerberos-delete-kdc-keytab-failure': Total Kerberos KDC Keytab Deletion Failure; 'kerberos-kdc-keytab-count': Current Kerberos KDC Keytab Count;

Type: string

Supported Values: all, kerberos-request-send, kerberos-response-get, kerberos-timeout-error, kerberos-other-error, kerberos-request-normal, kerberos-request-dropped, kerberos-response-success, kerberos-response-failure, kerberos-response-error, kerberos-response-timeout, kerberos-response-other, kerberos-job-start-error, kerberos-polling-control-error, kerberos-pw-expiry, kerberos-pw-change-success, kerberos-pw-change-failure, kerberos-validate-kdc-success, kerberos-validate-kdc-failure, kerberos-generate-kdc-keytab-success,

kerberos-generate-kdc-keytab-failure, kerberos-delete-kdc-keytab-success, kerberos-delete-kdc-keytab-failure, kerberos-kdc-keytab-count

server_windows_instance-list

Specification	Value
Type	*list*
Block object keys	

auth-protocol

Description: auth-protocol is a **JSON Block**. Please see below for *server_windows_instance-list_auth-protocol*

Type: Object

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *server_windows_instance-list_host*

Type: Object

name

Description Specify Windows authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-win-inst-tmpl*

realm

Description Specify realm of Windows server

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

support-apacheds-kdc

Description Enable weak cipher (DES CRC/MD5/MD4) and merge AS-REQ in single packet

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Specify connection timeout to server, default is 10 seconds

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server_windows_instance-list_host

Specification	Value
Type	*object*

hostip

Description Specify the Windows server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Specify the Windows server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

server_windows_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'krb_send_req_success': Kerberos Request; 'krb_get_resp_success': Kerberos Response; 'krb_timeout_error': Kerberos Timeout; 'krb_other_error': Kerberos Other Error; 'krb_pw_expiry': Kerberos password expiry; 'krb_pw_change_success': Kerberos password change success; 'krb_pw_change_failure': Kerberos password change failure; 'ntlm_proto_nego_success': NTLM Protocol Negotiation Success; 'ntlm_proto_nego_failure': NTLM Protocol Negotiation Failure; 'ntlm_session_setup_success': NTLM Session Setup Success; 'ntlm_session_setup_failure': NTLM Session Setup Failure; 'ntlm_prepare_req_success': NTLM Prepare Request Success; 'ntlm_prepare_req_error': NTLM Prepare Request Error; 'ntlm_auth_success': NTLM Authentication Success; 'ntlm_auth_failure': NTLM Authentication Failure; 'ntlm_timeout_error': NTLM Timeout; 'ntlm_other_error': NTLM Other Error; 'krb_validate_kdc_success': Kerberos KDC Validation Success; 'krb_validate_kdc_failure': Kerberos KDC Validation Failure;

Type: string

Supported Values: all, krb_send_req_success, krb_get_resp_success, krb_timeout_error, krb_other_error, krb_pw_expiry, krb_pw_change_success, krb_pw_change_failure, krb_validate_kdc_success, krb_validate_kdc_failure

server_windows_instance-list_auth-protocol

Specification	Value
Type	*object*

kdc-validate

Description Enable KDC validation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

kerberos-kdc-validation

Description: kerberos-kdc-validation is a **JSON Block**. Please see below for *server_windows_instance-list_auth-protocol_kerberos-kdc-validation*

Type: Object

kerberos-password-change-port

Description Specify the Kerbros password change port, default is 464

Type: number

Range: 1-65534

Default: 464

kerberos-port

Description Specify the Kerberos port, default is 88

Type: number

Range: 1-65534

Default: 88

kport-hm

Description Check Kerberos port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: kport-hm and kport-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

kport-hm-disable

Description Disable configured Kerberos port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: kport-hm-disable and kport-hm are mutually exclusive

server_windows_instance-list_auth-protocol_kerberos-kdc-validation

Specification	Value
Type	*object*

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.)

kdc-account

Description Specify account for KDC validation

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

kdc-password

Description Specify account password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

kdc-pwd

Description Account password

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

kdc-spn

Description Specify SPN for KDC validation

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

server_ocsp

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/ocsp/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server_ocsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'stapling-certificate-good': Total OCSP Stapling Good Certificate Response; 'stapling-certificate-revoked': Total OCSP Stapling Revoked Certificate Response; 'stapling-certificate-unknown': Total OCSP Stapling Unknown Certificate Response; 'stapling-request-normal': Total OSCP Stapling Normal Request; 'stapling-request-dropped': Total OCSP Stapling Dropped Request; 'stapling-response-success': Total OCSP Stapling Success Response; 'stapling-response-failure': Total OCSP Stapling Failure Response; 'stapling-response-error': Total OCSP Stapling Error Response; 'stapling-response-timeout': Total OCSP Stapling Timeout Response; 'stapling-response-other': Total OCSP Stapling Other Response; 'request-normal': Total OSCP Normal Request; 'request-dropped': Total OCSP Dropped Request; 'response-success': Total OCSP Success Response; 'response-failure': Total OCSP Failure Response; 'response-error': Total OCSP Error Response; 'response-timeout': Total OCSP Timeout Response; 'response-other': Total OCSP Other Response; 'job-start-error': Total OCSP Job Start Error; 'polling-control-error': Total OCSP Polling Control Error;

Type: string

Supported Values: all, stapling-certificate-good, stapling-certificate-revoked, stapling-certificate-unknown, stapling-request-normal, stapling-request-dropped, stapling-response-success, stapling-response-failure, stapling-response-error, stapling-response-timeout, stapling-response-other, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error

server_ocsp_instance-list

Specification	Value
Type	*list*
Block object keys	

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

http-version

Description Set HTTP version (default 1.0)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Specify OCSP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-ocsp-inst-tmpl*

port-health-check

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-health-check and port-health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-health-check-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-health-check-disable and port-health-check are mutually exclusive

responder-ca

Description Specify the trusted OCSP responder's CA cert filename

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

responder-cert

Description Specify the trusted OCSP responder's cert filename

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

sampling-enable

Type: List

url

Description Specify the OCSP server's address (Format: http://host{[}:port{]}/) (The OCSP server's address(Format: http://host{[}:port{]}/))

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

version-type

Description '1.1': HTTP version 1.1;

Type: string

Supported Values: 1.1

server_ocsp_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'certificate-good': Good Certificate Response; 'certificate-revoked': Revoked Certificate Response; 'certificate-unknown': Unknown Certificate Response; 'timeout': Timeout; 'fail': Handle OCSP response failed; 'stapling-request': OCSP Stapling Request Send; 'stapling-certificate-good': OCSP Stapling Good Certificate Response; 'stapling-certificate-revoked': OCSP Stapling Revoked Certificate Response; 'stapling-certificate-unknown': OCSP Stapling Unknown Certificate Response; 'stapling-timeout': OCSP Stapling Timeout; 'stapling-fail': Handle OCSP response failed;

Type: string

Supported Values: all, request, certificate-good, certificate-revoked, certificate-unknown, timeout, fail, stapling-request, stapling-certificate-good, stapling-certificate-revoked, stapling-certificate-unknown, stapling-timeout, stapling-fail

server_radius

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/radius/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server_radius_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'authen_success': Total Authentication Success; 'authen_failure': Total Authentication Failure; 'authorize_success': Total Authorization Success; 'authorize_failure': Total Authorization Failure; 'access_challenge': Total Access-Challenge Message Receive; 'timeout_error': Total Timeout; 'other_error': Total Other Error; 'request': Total Request; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response; 'job-start-error': Total Job Start Error; 'polling-control-error': Total Polling Control Error; 'accounting-request-sent': Accounting-Request Sent; 'accounting-success': Accounting Success; 'accounting-failure': Accounting Failure;

Type: string

Supported Values: all, authen_success, authen_failure, authorize_success, authorize_failure, access_challenge, timeout_error, other_error, request, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error, accounting-request-sent, accounting-success, accounting-failure

server_radius_instance-list

Specification	Value
Type	*list*
Block object keys	

accounting-port

Description Specify the RADIUS server's accounting port, default is 1813

Type: number

Range: 1-65534

Default: 1813

acct-port-hm

Description Specify accounting port health check method

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: acct-port-hm and acct-port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

acct-port-hm-disable

Description Disable configured accounting port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: acct-port-hm-disable and acct-port-hm are mutually exclusive

auth-type

Description 'pap': PAP authentication. Default; 'mschapv2': MS-CHAPv2 authentication; 'mschapv2-pap': Use MS-CHAPv2 first. If server doesn't support it, try PAP;

Type: string

Supported Values: pap, mschapv2, mschapv2-pap

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *server_radius_instance-list_host*

Type: Object

interval

Description Specify the interval time for resend the request (second), default is 3 seconds (The interval time(second), default is 3 seconds)

Type: number

Range: 1-1024

Default: 3

message-authenticator-verify-enable

Description Verify Message-Authenticator attribute

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Specify RADIUS authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-rad-inst-tmpl*

port

Description Specify the RADIUS server's authentication port, default is 1812

Type: number

Range: 1-65534

Default: 1812

port-hm

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-hm and port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-hm-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-hm-disable and port-hm are mutually exclusive

retry

Description Specify the retry number for resend the request, default is 5 (The retry number, default is 5)

Type: number

Range: 1-32

Default: 5

sampling-enable

Type: List

secret

Description Specify the RADIUS server's secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-string

Description The RADIUS server's secret

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server_radius_instance-list_host

Specification	Value
Type	*object*

hostip

Description Server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

server_radius_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'authen_success': Authentication Success; 'authen_failure': Authentication Failure; 'authorize_success': Authorization Success; 'authorize_failure': Authorization Failure; 'access_challenge': Access-Challenge Message Receive; 'timeout_error': Timeout; 'other_error': Other Error; 'request': Request; 'accounting-request-sent': Accounting-Request Sent; 'accounting-success': Accounting Success; 'accounting-failure': Accounting Failure;

Type: string

Supported Values: all, authen_success, authen_failure, authorize_success, authorize_failure, access_challenge, timeout_error, other_error, request, accounting-request-sent, accounting-success, accounting-failure

server_ldap

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/ldap/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server_ldap_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'admin-bind-success': Total Admin Bind Success; 'admin-bind-failure': Total Admin Bind Failure; 'bind-success': Total User Bind Success; 'bind-failure': Total User Bind Failure; 'search-success': Total Search Success; 'search-failure': Total Search Failure; 'authorize-success': Total Authorization Success; 'authorize-failure': Total Authorization Failure; 'timeout-error': Total Timeout; 'other-error': Total Other Error; 'request': Total Request; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response; 'job-start-error': Total Job Start Error; 'polling-control-error': Total Polling Control Error; 'ssl-session-created': TLS/SSL Session Created; 'ssl-session-failure': TLS/SSL Session Failure; 'ldaps-idle-conn-num': LDAPS Idle Connection Number; 'ldaps-inuse-conn-num': LDAPS In-use Connection Number; 'pw-expiry': Total Password expiry; 'pw-change-success': Total password change success; 'pw-change-failure': Total password change failure;

Type: string

Supported Values: all, admin-bind-success, admin-bind-failure, bind-success, bind-failure, search-success, search-failure, authorize-success, authorize-failure, timeout-error, other-error, request, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error, ssl-session-created, ssl-session-failure, ldaps-idle-conn-num, ldaps-inuse-conn-num, pw-expiry, pw-change-success, pw-change-failure

server_ldap_instance-list

Specification	Value
Type	*list*
Block object keys	

admin-dn

Description The LDAP server's admin DN

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

admin-secret

Description Specify the LDAP server's admin secret password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-type

Description 'ad': Active Directory. Default; 'open-ldap': OpenLDAP;

Type: string

Supported Values: ad, open-ldap

base

Description Specify the LDAP server's search base

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

bind-with-dn

Description Enforce using DN for LDAP binding(All user input name will be used to create DN)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ca-cert

Description Specify the LDAPS CA cert filename (Trusted LDAPS CA cert filename)

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

default-domain

Description Specify default domain for LDAP

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

derive-bind-dn

Description: derive-bind-dn is a **JSON Block**. Please see below for *server_ldap_instance-list_derive-bind-dn*

Type: Object

dn-attribute

Description Specify Distinguished Name attribute, default is CN

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

Default: cn

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *server_ldap_instance-list_host*

Type: Object

ldaps-conn-reuse-idle-timeout

Description Specify LDAPS connection reuse idle timeout value (in seconds) (Specify idle timeout value (in seconds), default is 0 (not reuse LDAPS connection))

Type: number

Range: 0-86400

Default: 0

name

Description Specify LDAP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-ldap-inst-tmpl*

port

Description Specify the LDAP server's authentication port, default is 389

Type: number

Range: 1-65534

Default: 389

port-hm

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-hm and port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-hm-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-hm-disable and port-hm are mutually exclusive

prompt-pw-change-before-exp

Description Prompt user to change password before expiration in N days. This option only takes effect when server type is AD (Prompt user to change password before expiration in N days, default is not to prompt the user)

Type: number

Range: 1-999

protocol

Description 'ldap': Use LDAP (default); 'ldaps': Use LDAP over SSL; 'starttls': Use LDAP StartTLS;

Type: string

Supported Values: ldap, ldaps, starttls

Default: ldap

pwdmaxage

Description Specify the LDAP server's default password expiration time (in seconds) (The LDAP server's default password expiration time (in seconds), default is 0 (no expiration))

Type: number

Range: 0-4294967295

Default: 0

sampling-enable

Type: List

secret-string

Description secret password

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

timeout

Description Specify timout for LDAP, default is 10 seconds (The timeout, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server_ldap_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'admin-bind-success': Admin Bind Success; 'admin-bind-failure': Admin Bind Failure; 'bind-success': User Bind Success; 'bind-failure': User Bind Failure; 'search-success': Search Success; 'search-failure': Search Failure; 'authorize-success': Authorization Success; 'authorize-failure': Authorization Failure; 'timeout-error': Timeout; 'other-error': Other Error; 'request': Request; 'ssl-session-created': TLS/SSL Session Created; 'ssl-session-failure': TLS/SSL Session Failure; 'pw_expiry': Password expiry; 'pw_change_success': Password change success; 'pw_change_failure': Password change failure;

Type: string

Supported Values: all, admin-bind-success, admin-bind-failure, bind-success, bind-failure, search-success, search-failure, authorize-success, authorize-failure, timeout-error, other-error, request, ssl-session-created, ssl-session-failure, pw_expiry, pw_change_success, pw_change_failure

server_ldap_instance-list_derive-bind-dn

Specification	Value
Type	*object*

username-attr

Description Specify attribute name of username

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

server_ldap_instance-list_host

Specification	Value
Type	*object*

hostip

Description Server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

captcha

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/captcha/instance/{name}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

captcha_instance-list

Specification	Value
Type	*list*
Block object keys	

client-ip-param-name

Description Specify client ip parameter name used in API (Set parameter name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

method

Description 'POST': API uses POST method; 'GET': API uses GET method;

Type: string

Supported Values: POST, GET

Default: POST

name

Description Specify captcha profile name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

resp-error-code-field-name

Description Specify error code field name used in JSON response (Set field name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

resp-result-field-name

Description Specify result field name used in JSON response (Set field name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-key

Description Specify secret key

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-key-param-name

Description Specify secret key parameter name used in API (Set parameter name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-key-string

Description Secret key string

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

send-client-ip

Description Send client IP address in API

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Specify timeout for verify API response (Specify timeout value, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

token-param-name

Description Specify token parameter name used in API (Set parameter name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

url

Description Specify verify API URL, default scheme is https

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

file

Specification	Value
Type	*object*

portal

Description: portal is a **JSON Block**. Please see below for *file_portal*

Type: Object

Reference Object: */axapi/v3/aam/authentication/file/portal*

portal-image

Description: portal-image is a **JSON Block**. Please see below for *file_portal-image*

Type: Object

Reference Object: */axapi/v3/aam/authentication/file/portal-image*

file_portal

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

file_portal-image

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

oauth

Specification	Value
Type	*object*

authorization-server-list

Type: List

Reference Object: */axapi/v3/aam/authentication/oauth/authorization-server/{name}*

client-list

Type: List

Reference Object: */axapi/v3/aam/authentication/oauth/client/{name}*

global

Description: global is a **JSON Block**. Please see below for *oauth_global*

Type: Object

Reference Object: */axapi/v3/aam/authentication/oauth/global*

oauth_global

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

oauth_global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auth-req': some help string; 'auth-succ': some help string; 'auth-fail': some help string; 'auth-error': some help string; 'relay-req': some help string; 'relay-succ': some help string; 'relay-fail': some help string; 'other-error': some help string;

Type: string

Supported Values: all, auth-req, auth-succ, auth-fail, auth-error, relay-req, relay-succ, relay-fail, other-error

oauth_client-list

Specification	Value
Type	*list*
Block object keys	

client-id

Description Specify oauth client-id

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

client-secret

Description

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

grant-type

Description 'implicit': The authorization server will return access token directly.; 'authorization-code': The authorization server will respond with code which can be exchange for access token.; 'hybrid-code-id-token': The authorization server will respond with both code and id token.; 'hybrid-code-token': The authorization server will respond with both code and access token.; 'hybrid-all': The authorization server will respond with code, access token and id token;

Type: string

Supported Values: implicit, authorization-code, hybrid-code-id-token, hybrid-code-token, hybrid-all

infinity

Description Auth session never time out whatever value oauth servers' response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: infinity and token-lifetime are mutually exclusive

name

Description Specify client object name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

no-reply

Description AX will not check the nonce value in response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

parameter-nonce-enable

Description Enable nonce parameter for authorization and token request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

redirection-endpoint

Description Oauth client redirection endpoint service URL.

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

scope

Description Specify request scope parameters (e.g. profile email address phone)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

session-init-ttl

Description TTL for Thunder to wait for first response from authorization server

Type: number

Range: 1-60

token-lifetime

Description

Type: number

Range: 1-2592000

Mutual Exclusion: token-lifetime and infinity are mutually exclusive

type

Description 'openid-connect': openid-connect;

Type: string

Supported Values: openid-connect

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

oauth_authorization-server-list

Specification	Value
Type	*list*
Block object keys	

authorization-endpoint

Description Specify URI for authorization

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

client-method

Description 'ignored': Clients' browser will send data according to server spec (default); 'post': Clients' browser will send data by POST; 'get': Clients' browser will send data by GET;

Type: string

Supported Values: ignored, post, get

issuer

Description Specify openid provider name for authorization

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

name

Description Specify authorization server object name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

server-method

Description 'post': AX will send data to server by POST (default); 'get': AX will send data to server by GET;

Type: string

Supported Values: post, get

token-endpoint

Description Specify URI for token exchange

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

verification-cert

Description Specify certificate to verify ID token signature

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-cert and verification-jwks are mutually exclusive

verification-jwks

Description Specify jwks file to verify ID token signature

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-jwks and verification-cert are mutually exclusive

oauth_authorization-server-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auth-req': some help string; 'auth-succ': some help string; 'auth-fail': some help string; 'auth-error': some help string; 'other-error': some help string;

Type: string

Supported Values: all, auth-req, auth-succ, auth-fail, auth-error, other-error

password-retry

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template-list

Specification	Value
Type	*list*
Block object keys	

account

Description Specify AD domain account

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/account/kerberos-spn*

accounting-server

Description Specify a RADIUS accounting server

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: accounting-server and accounting-service-group are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/server/radius/instance*

accounting-service-group

Description Specify an authentication service group for RADIUS accounting

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: accounting-service-group and accounting-server are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

auth-sess-mode

Description 'cookie-based': Track auth-session by cookie (default); 'ip-based': Track auth-session by client IP;

Type: string

Supported Values: cookie-based, ip-based

captcha

Description Specify captcha profile (Specify captcha proflie name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/captcha/instance*

chain

Type: List

cookie-domain

Type: List

cookie-domain-group

Type: List

cookie-httponly-enable

Description Enable httponly attribute for AAM cookies

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cookie-max-age

Description Configure Max-Age for authentication session cookie (Configure Max-Age in seconds, 0 for no Max-Age/Expires attributes. Default is 604800 (1 week).)

Type: number

Range: 0-2592000

Default: 604800

cookie-samesite

Description 'strict': Specify SameSite attribute as Strict for AAM cookie; 'lax': Specify Same-Site attribute as Lax for AAM cookie; 'none': Specify SameSite attribute as None for AAM cookie;

Type: string

Supported Values: strict, lax, none

cookie-secure-enable

Description Enable secure attribute for AAM cookies

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

forward-logout-disable

Description Disable forward logout request to backend application server. The config-field logout-url must be configured first

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

jwt

Description Specify authentication jwt template

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/jwt*

local-logging

Description Enable local logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log

Description 'use-partition-level-config': Use configuration of authentication-log enable command; 'enable': Enable authentication logs for this template; 'disable': Disable authentication logs for this template;

Type: string

Supported Values: use-partition-level-config, enable, disable

Default: use-partition-level-config

logon

Description Specify authentication logon (Specify authentication logon template name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/logon/form-based*

logout-idle-timeout

Description Specify idle logout time (Specify idle timeout in seconds, default is 300)

Type: number

Range: 1-86400

Default: 300

logout-url

Description Specify logout url (Specify logout url string)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

max-session-time

Description Specify default SAML token lifetime (Specify lifetime (in seconds) of SAML token when it not provided by token attributes, default is 28800. (0 for indefinite))

Type: number

Range: 0-86400

modify-content-security-policy

Description Put redirect-uri or service-principal-name into CSP header to avoid CPS break authentication process

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Authentication template name

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

oauth-authorization-server

Description Specify OAUTH authorization server

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

oauth-client

Description Specify OAUTH client

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

redirect-hostname

Description Hostname(Length 1-31) for transparent-proxy authentication

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

relay

Description Specify authentication relay (Specify authentication relay template name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/relay/http-basic/instance*

saml-idp

Description Specify SAML identity provider

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

saml-sp

Description Specify SAML service provider

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

server

Description Specify authentication server (Specify authentication server template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: server and service-group are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/server/ldap/instance*

service-group

Description Bind an authentication service group to this template (Specify authentication service group name)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: service-group, server, and chain-server are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

type

Description 'saml': SAML authentication template; 'standard': Standard authentication template; 'oauth': Oauth 2.0 authentication template;

Type: string

Supported Values: saml, standard, oauth

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template-list_chain

Specification	Value
Type	*list*
Block object keys	

chain-server

Description Specify authentication server (Specify authentication server template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: chain-server, service-group, and chain-sg are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/server/ldap/instance*

chain-server-priority

Description Set server priority, higher the number higher the priority. Default is 3. (Chain server priority, higher the number higher the priority. Default is 3.)

Type: number

Range: 1-5

Default: 3

chain-sg

Description Bind an authentication service group to this template (Specify authentication service group name)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: chain-sg and chain-server are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

chain-sg-priority

Description Set service-group priority, higher the number higher the priority. Default is 3. (Chain service-group priority, higher the number higher the priority. Default is 3.)

Type: number

Range: 1-5

Default: 3

template-list_cookie-domain-group

Specification	Value
Type	*list*
Block object keys	

cookie-dmngrp

Description Specify group id to join in the cookie-domain

Type: number

Range: 0-31

template-list_cookie-domain

Specification	Value
Type	*list*
Block object keys	

cookie-dmn

Description Specify domain scope for the authentication (ex: .a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 2 characters

2.1.9 aam authentication account

Authentication account configuration

account Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	account
Element URI	/axapi/v3/aam/authentication/account
Element Attributes	account_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/account/stats
Schema	`account schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/account

account attributes

```
POST /axapi/v3/aam/authentication/account
Payload:
{
    "account": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
```

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```
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/account

account attributes

```
GET /axapi/v3/aam/authentication/account
Reponse:
{
    "account": {
        "uuid": "5605f46e-086a-11f0-b2f1-51c757813e60",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/aam/authentication/account"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/account

account attributes

Replace Object

PUT

/axapi/v3/aam/authentication/account

account attributes

```
PUT /axapi/v3/aam/authentication/account
Payload:
{
    "account": {
        "sampling-enable": [
            {
                "counters1": "request-normal"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/account

account attributes

```
DELETE /axapi/v3/aam/authentication/account
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

account attributes

kerberos-spn-list

Type: List

Reference Object: */axapi/v3/aam/authentication/account/kerberos-spn/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response;

Type: string

Supported Values: all, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other

kerberos-spn-list

Specification	Value
Type	*list*
Block object keys	

account

Description Specify domain account for SPN

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.)

name

Description Specify AD account name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

password

Description Specify password of domain account

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

realm

Description Specify Kerberos realm

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-string

Description Password of AD account

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

service-principal-name

Description Specify service principal name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.10 aam authentication account kerberos-spn

AD domain account associated with a SPN

kerberos-spn Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*kerberos-spn-list*
Collection URI	/axapi/v3/aam/authentication/account/kerberos-spn
Element Name	kerberos-spn
Element URI	/axapi/v3/aam/authentication/account/kerberos-spn/{name}
Element Attributes	kerberos-spn_attributes
Partition Visibility	shared
Schema	`kerberos-spn schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/account/kerberos-spn

kerberos-spn attributes

```
POST /axapi/v3/aam/authentication/account/kerberos-spn/
Payload:
{
    "kerberos-spn": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/account/kerberos-spn

kerberos-spn attributes

Get Object

GET

/axapi/v3/aam/authentication/account/kerberos-spn/{name}

kerberos-spn attributes

```
GET /axapi/v3/aam/authentication/account/kerberos-spn/a
Reponse:
{
    "kerberos-spn": {
        "name": "a",
        "password": 0,
        "uuid": "eb8bdec4-086d-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authentication/account/kerberos-spn/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/account/kerberos-spn

kerberos-spn-list

Modify Object

POST

/axapi/v3/aam/authentication/account/kerberos-spn/{name}

kerberos-spn attributes

Replace Object

PUT

/axapi/v3/aam/authentication/account/kerberos-spn/{name}

kerberos-spn attributes

```
PUT /axapi/v3/aam/authentication/account/kerberos-spn/a
Payload:
{
    "kerberos-spn": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/account/kerberos-spn

kerberos-spn-list

Delete Object

DELETE

/axapi/v3/aam/authentication/account/kerberos-spn/{name}

kerberos-spn attributes

```
DELETE /axapi/v3/aam/authentication/account/kerberos-spn/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

kerberos-spn-list

kerberos-spn-list is **JSON List** of *kerberos-spn attributes*

kerberos-spn-list : [

{ *kerberos-spn attributes* },

{ *kerberos-spn attributes* },

...

]

kerberos-spn attributes

account

Description Specify domain account for SPN

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.)

name

Description Specify AD account name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

password

Description Specify password of domain account

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

realm

Description Specify Kerberos realm

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-string

Description Password of AD account

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

service-principal-name

Description Specify service principal name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.11 aam authentication account stats

Statistics for the object account

account Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	account
Element URI	/axapi/v3/aam/authentication/account/stats
Element Attributes	account_attributes
Partition Visibility	None
Schema	`account schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/account/stats

account attributes

Get Object

GET

/axapi/v3/aam/authentication/account/stats

account attributes

Modify Object

POST

/axapi/v3/aam/authentication/account/stats

account attributes

Replace Object

PUT

/axapi/v3/aam/authentication/account/stats

account attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/account/stats

account attributes

account attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

request-dropped

Description Total Dropped Request

Type: number

Format: counter

request-normal

Description Total Normal Request

Type: number

Format: counter

response-error

Description Total Error Response

Type: number

Format: counter

response-failure

Description Total Failure Response

Type: number

Format: counter

response-other

Description Total Other Response

Type: number

Format: counter

response-success

Description Total Success Response

Type: number

Format: counter

response-timeout

Description Total Timeout Response

Type: number

Format: counter

2.1.12 aam authentication captcha

CAPTCHA Profile

captcha Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	captcha
Element URI	/axapi/v3/aam/authentication/captcha
Element Attributes	captcha_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/captcha/stats
Schema	`captcha schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/captcha

captcha attributes

```
POST /axapi/v3/aam/authentication/captcha
Payload:
{
    "captcha": {
        "instance-list": [
            {
                "name": "a",
                "secret-key": 1,
                "secret-key-string": "a"
```

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```
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/captcha

captcha attributes

```
GET /axapi/v3/aam/authentication/captcha
Reponse:
{
    "captcha": {
        "uuid": "5605faa4-086a-11f0-b2f1-51c757813e60",
        "instance-list": [
            {
                "name": "a",
                "secret-key": 1,
                "encrypted":
↪"EhsSoBWtqFpjDGCVr9o3lDeRQX0L7I7AYlAGuz3pE0QW5IbJ68JoDD3pTMHqUDwZ",
                "method": "POST",
                "timeout": 10,
                "send-client-ip": 0,
                "uuid": "196afd66-086e-11f0-847f-51c757813e60",
                "a10-url": "/axapi/v3/aam/authentication/captcha/instance/a"
            }
        ],
        "a10-url": "/axapi/v3/aam/authentication/captcha"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/captcha

captcha attributes

Replace Object

PUT

/axapi/v3/aam/authentication/captcha

captcha attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/captcha

captcha attributes

```
DELETE /axapi/v3/aam/authentication/captcha
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

captcha attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/captcha/instance/{name}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

instance-list

Specification	Value
Type	*list*
Block object keys	

client-ip-param-name

Description Specify client ip parameter name used in API (Set parameter name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

method

Description 'POST': API uses POST method; 'GET': API uses GET method;

Type: string

Supported Values: POST, GET

Default: POST

name

Description Specify captcha profile name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

resp-error-code-field-name

Description Specify error code field name used in JSON response (Set field name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

resp-result-field-name

Description Specify result field name used in JSON response (Set field name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-key

Description Specify secret key

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-key-param-name

Description Specify secret key parameter name used in API (Set parameter name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-key-string

Description Secret key string

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

send-client-ip

Description Send client IP address in API

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Specify timeout for verify API response (Specify timeout value, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

token-param-name

Description Specify token parameter name used in API (Set parameter name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

url

Description Specify verify API URL, default scheme is https

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.13 aam authentication captcha instance

CAPTCHA Profile

instance Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/captcha/instance
Element Name	instance
Element URI	/axapi/v3/aam/authentication/captcha/instance/{name}
Element Attributes	instance_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/captcha/instance/{name}/stats
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/captcha/instance

instance attributes

```
POST /axapi/v3/aam/authentication/captcha/instance/
Payload:
{
    "instance": {
        "name": "a",
        "secret-key": 1,
        "secret-key-string": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/captcha/instance

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/captcha/instance/{name}

instance attributes

```
GET /axapi/v3/aam/authentication/captcha/instance/a
Reponse:
{
    "instance": {
        "name": "a",
        "secret-key": 1,
        "encrypted": "ZypLyx/gEsloN834ftK8ufE4UXNb2nI7uBnhUcIhYIILjs8SCHzaF+lYYnUkxukr",
        "method": "POST",
        "timeout": 10,
        "send-client-ip": 0,
        "uuid": "3210717a-086e-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/captcha/instance/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/captcha/instance

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/captcha/instance/{name}

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/captcha/instance/{name}

instance attributes

```
PUT /axapi/v3/aam/authentication/captcha/instance/a
Payload:
{
    "instance": {
        "name": "a",
        "url": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/captcha/instance

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/captcha/instance/{name}

instance attributes

```
DELETE /axapi/v3/aam/authentication/captcha/instance/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

client-ip-param-name

Description Specify client ip parameter name used in API (Set parameter name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

method

Description 'POST': API uses POST method; 'GET': API uses GET method;

Type: string

Supported Values: POST, GET

Default: POST

name

Description Specify captcha profile name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

resp-error-code-field-name

Description Specify error code field name used in JSON response (Set field name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

resp-result-field-name

Description Specify result field name used in JSON response (Set field name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-key

Description Specify secret key

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-key-param-name

Description Specify secret key parameter name used in API (Set parameter name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-key-string

Description Secret key string

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

send-client-ip

Description Send client IP address in API

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Specify timeout for verify API response (Specify timeout value, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

token-param-name

Description Specify token parameter name used in API (Set parameter name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

url

Description Specify verify API URL, default scheme is https

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.14 aam authentication captcha instance stats

Statistics for the object instance

instance Specification

Parameter	Value
Type	*Collection*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/captcha/instance/{name}
Element Name	instance
Element URI	/axapi/v3/aam/authentication/captcha/instance/{name}/stats
Element Attributes	instance_attributes
Partition Visibility	None
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/captcha/instance/{name}

instance attributes

Create List

POST

/axapi/v3/aam/authentication/captcha/instance/{name}

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/captcha/instance/{name}/stats

instance attributes

Get List

GET

/axapi/v3/aam/authentication/captcha/instance/{name}

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/captcha/instance/{name}/stats

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/captcha/instance/{name}/stats

instance attributes

Replace List

PUT

/axapi/v3/aam/authentication/captcha/instance/{name}

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/captcha/instance/{name}/stats

instance attributes

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

name

Description Specify captcha profile name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

attr-fail

Description Total Attibute Check Failure

Type: number

Format: counter

json-fail

Description Total Failure JSON Response

Type: number

Format: counter

other-error

Description Total Other Error

Type: number

Format: counter

parse-fail

Description Total JSON Response Parse Failure

Type: number

Format: counter

request

Description Total Request

Type: number

Format: counter

timeout-error

Description Total Timeout

Type: number

Format: counter

verify-succ

Description Total Verification Success Response

Type: number

Format: counter

2.1.15 aam authentication captcha stats

Statistics for the object captcha

captcha Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	captcha
Element URI	/axapi/v3/aam/authentication/captcha/stats
Element Attributes	captcha_attributes
Partition Visibility	None
Schema	`captcha schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/captcha/stats

captcha attributes

Get Object

GET

/axapi/v3/aam/authentication/captcha/stats

captcha attributes

Modify Object

POST

/axapi/v3/aam/authentication/captcha/stats

captcha attributes

Replace Object

PUT

/axapi/v3/aam/authentication/captcha/stats

captcha attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/captcha/stats

captcha attributes

captcha attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/captcha/instance/{name}*

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

attr-fail

Description Total Attribute Check Failure

Type: number

Format: counter

job-start-error

Description Total Job Start Error

Type: number

Format: counter

json-fail

Description Total Failure JSON Response

Type: number

Format: counter

other-error

Description Total Other Error

Type: number

Format: counter

parse-fail

Description Total JSON Response Parse Failure

Type: number

Format: counter

polling-control-error

Description Total Polling Control Error

Type: number

Format: counter

request

Description Total Request

Type: number

Format: counter

request-dropped

Description Total Dropped Request

Type: number

Format: counter

request-normal

Description Total Normal Request

Type: number

Format: counter

response-error

Description Total Error Response

Type: number

Format: counter

response-failure

Description Total Failure Response

Type: number

Format: counter

response-other

Description Total Other Response

Type: number

Format: counter

response-success

Description Total Success Response

Type: number

Format: counter

response-timeout

Description Total Timeout Response

Type: number

Format: counter

timeout-error

Description Total Timeout

Type: number

Format: counter

verify-succ

Description Total Verification Success Response

Type: number

Format: counter

instance-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify captcha profile name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *instance-list_stats*

Type: Object

instance-list_stats

Specification	Value
Type	*object*

attr-fail

Description Total Attibute Check Failure

Type: number

Format: counter

json-fail

Description Total Failure JSON Response

Type: number

Format: counter

other-error

Description Total Other Error

Type: number

Format: counter

parse-fail

Description Total JSON Response Parse Failure

Type: number

Format: counter

request

Description Total Request

Type: number

Format: counter

timeout-error

Description Total Timeout

Type: number

Format: counter

verify-succ

Description Total Verification Success Response

Type: number

Format: counter

2.1.16 aam authentication file

file Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	file
Element URI	/axapi/v3/aam/authentication/file
Element Attributes	file_attributes
Partition Visibility	shared
Schema	`file schema`

Operations Allowed:

Get Object

GET

/axapi/v3/aam/authentication/file

file_attributes

file attributes

portal

Description: portal is a **JSON Block**. Please see below for *portal*

Type: Object

Reference Object: */axapi/v3/aam/authentication/file/portal*

portal-image

Description: portal-image is a **JSON Block**. Please see below for *portal-image*

Type: Object

Reference Object: */axapi/v3/aam/authentication/file/portal-image*

portal

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

portal-image

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.17 aam authentication file portal

portal Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	portal
Element URI	/axapi/v3/aam/authentication/file/portal
Element Attributes	portal_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/aam/authentication/file/portal/oper
Schema	`portal schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/file/portal

portal attributes

Get Object

GET

/axapi/v3/aam/authentication/file/portal

portal attributes

Modify Object

POST

/axapi/v3/aam/authentication/file/portal

portal attributes

Replace Object

PUT

/axapi/v3/aam/authentication/file/portal

portal attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/file/portal

portal attributes

portal attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.18 aam authentication file portal-image

portal-image Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	portal-image
Element URI	/axapi/v3/aam/authentication/file/portal-image
Element Attributes	portal-image_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/aam/authentication/file/portal-image/oper
Schema	`portal-image schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/file/portal-image

portal-image attributes

Get Object

GET

/axapi/v3/aam/authentication/file/portal-image

portal-image attributes

Modify Object

POST

/axapi/v3/aam/authentication/file/portal-image

portal-image attributes

Replace Object

PUT

/axapi/v3/aam/authentication/file/portal-image

portal-image attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/file/portal-image

portal-image attributes

portal-image attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.19 aam authentication file portal-image oper

Operational Status for the object portal-image

portal-image Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	portal-image
Element URI	/axapi/v3/aam/authentication/file/portal-image/oper
Element Attributes	portal-image_attributes
Partition Visibility	None
Schema	`portal-image schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/file/portal-image/oper

portal-image attributes

Get Object

GET

/axapi/v3/aam/authentication/file/portal-image/oper

portal-image attributes

Modify Object

POST

/axapi/v3/aam/authentication/file/portal-image/oper

portal-image attributes

Replace Object

PUT

/axapi/v3/aam/authentication/file/portal-image/oper

portal-image attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/file/portal-image/oper

portal-image attributes

portal-image attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

name

Description

Type: string

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

size

Description

Type: number

2.1.20 aam authentication file portal oper

Operational Status for the object portal

portal Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	portal
Element URI	/axapi/v3/aam/authentication/file/portal/oper
Element Attributes	portal_attributes
Partition Visibility	None
Schema	`portal schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/file/portal/oper

portal attributes

Get Object

GET

/axapi/v3/aam/authentication/file/portal/oper

portal attributes

Modify Object

POST

/axapi/v3/aam/authentication/file/portal/oper

portal attributes

Replace Object

PUT

/axapi/v3/aam/authentication/file/portal/oper

portal attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/file/portal/oper

portal attributes

portal attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

portal-name

Description

Type: string

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

size

Description

Type: number

2.1.21 aam authentication global

Global AAM authentication statistics

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/aam/authentication/global
Element Attributes	global_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/global/stats
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/global

global attributes

```
POST /axapi/v3/aam/authentication/global
Payload:
{
    "global": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/global

global attributes

```
GET /axapi/v3/aam/authentication/global
Reponse:
{
    "global": {
        "uuid": "5605ebb8-086a-11f0-b2f1-51c757813e60",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/aam/authentication/global"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/global

global attributes

Replace Object

PUT

/axapi/v3/aam/authentication/global

global attributes

```
PUT /axapi/v3/aam/authentication/global
Payload:
{
    "global": {
        "sampling-enable": [
            {
                "counters1": "requests"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/global

global attributes

```
DELETE /axapi/v3/aam/authentication/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

global attributes

max-auth-resp-size

Description Specify the max auth resp size in bytes(from authd to a10lb), default is 64KB

Type: number

Range: 2048-131072

Default: 65536

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'requests': Total Authentication Request; 'responses': Total Authentication Response; 'misses': Total Authentication Request Missed; 'ocsp-stapling-requests-to-a10authd': Total OCSP Stapling Request; 'ocsp-stapling-responses-from-a10authd': Total OCSP Stapling Response; 'opened-socket': Total AAM Socket Opened; 'open-socket-failed': Total AAM Open Socket Failed; 'connect': Total AAM Connection; 'connect-failed': Total AAM Connect Failed; 'created-timer': Total AAM Timer Created; 'create-timer-failed': Total AAM Timer Creation Failed; 'total-request': Total Request Received by A10 Auth Service; 'get-socket-option-failed': Total AAM Get Socket Option Failed; 'aflex-authz-succ': Total Authorization success number in aFleX; 'aflex-authz-fail': Total Authorization failure number in aFleX; 'authn-success': Total Authentication success number; 'authn-failure': Total Authentication failure number; 'authz-success': Total Authorization success number; 'authz-failure': Total Authorization failure number; 'active-session': Total Active Auth-Sessions; 'active-user': Total Active Users; 'dns-resolve-failed': Total AAM DNS resolve failed; 'domain-wlist-match': Total DOMAIN WHITELIST match number; 'domain-wlist-unmatch': Total DOMAIN WHITELIST unmatch number;

Type: string

Supported Values: all, requests, responses, misses, ocsp-stapling-requests-to-a10authd, ocsp-stapling-responses-from-a10authd, opened-socket, open-socket-failed, connect, connect-failed, created-timer, create-timer-failed, total-request, get-socket-option-failed, aflex-authz-succ, aflex-authz-fail, authn-success, authn-failure, authz-success, authz-failure, active-session, active-user, dns-resolve-failed, domain-wlist-match, domain-wlist-unmatch, auth_ctx_num

2.1.22 aam authentication global stats

Statistics for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/aam/authentication/global/stats
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/global/stats

global attributes

Get Object

GET

/axapi/v3/aam/authentication/global/stats

global attributes

Modify Object

POST

/axapi/v3/aam/authentication/global/stats

global attributes

Replace Object

PUT

/axapi/v3/aam/authentication/global/stats

global attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/global/stats

global attributes

global attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

active-session

Description Total Active Auth-Sessions

Type: number

Format: counter

active-user

Description Total Active Users

Type: number

Format: counter

aflex-authz-fail

Description Total Authorization failure number in aFleX

Type: number

Format: counter

aflex-authz-succ

Description Total Authorization success number in aFleX

Type: number

Format: counter

auth_ctx_num

Description Total Auth Contexts

Type: number

Format: counter

authn-failure

Description Total Authentication failure number

Type: number

Format: counter

authn-success

Description Total Authentication success number

Type: number

Format: counter

authz-failure

Description Total Authorization failure number

Type: number

Format: counter

authz-success

Description Total Authorization success number

Type: number

Format: counter

connect

Description Total AAM Connection

Type: number

Format: counter

connect-failed

Description Total AAM Connect Failed

Type: number

Format: counter

create-timer-failed

Description Total AAM Timer Creation Failed

Type: number

Format: counter

created-timer

Description Total AAM Timer Created

Type: number

Format: counter

dns-resolve-failed

Description Total AAM DNS resolve failed

Type: number

Format: counter

domain-wlist-match

Description Total DOMAIN WHITELIST match number

Type: number

Format: counter

domain-wlist-unmatch

Description Total DOMAIN WHITELIST unmatch number

Type: number

Format: counter

get-socket-option-failed

Description Total AAM Get Socket Option Failed

Type: number

Format: counter

misses

Description Total Authentication Request Missed

Type: number

Format: counter

ocsp-stapling-requests-to-a10authd

Description Total OCSP Stapling Request

Type: number

Format: counter

ocsp-stapling-responses-from-a10authd

Description Total OCSP Stapling Response

Type: number

Format: counter

open-socket-failed

Description Total AAM Open Socket Failed

Type: number

Format: counter

opened-socket

Description Total AAM Socket Opened

Type: number

Format: counter

requests

Description Total Authentication Request

Type: number

Format: counter

responses

Description Total Authentication Response

Type: number

Format: counter

total-request

Description Total Request Received by A10 Auth Service

Type: number

Format: counter

2.1.23 aam authentication jwks

JWKS related operations

jwks Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	jwks
Element URI	/axapi/v3/aam/authentication/jwks
Element Attributes	jwks_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/aam/authentication/jwks/oper
Schema	`jwks schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/jwks

jwks attributes

Get Object

GET

/axapi/v3/aam/authentication/jwks

jwks attributes

Modify Object

POST

/axapi/v3/aam/authentication/jwks

jwks attributes

Replace Object

PUT

/axapi/v3/aam/authentication/jwks

jwks attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/jwks

jwks attributes

jwks attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.24 aam authentication jwks oper

Operational Status for the object jwks

jwks Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	jwks
Element URI	/axapi/v3/aam/authentication/jwks/oper
Element Attributes	jwks_attributes
Partition Visibility	None
Schema	`jwks schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/jwks/oper

jwks attributes

Get Object

GET

/axapi/v3/aam/authentication/jwks/oper

jwks attributes

Modify Object

POST

/axapi/v3/aam/authentication/jwks/oper

jwks attributes

Replace Object

PUT

/axapi/v3/aam/authentication/jwks/oper

jwks attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/jwks/oper

jwks attributes

jwks attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

jwk-list

Type: List

oper_jwk-list

Specification	Value
Type	*list*
Block object keys	

jwk-name

Description

Type: string

jwk-size

Description

Type: number

2.1.25 aam authentication jwt

JWT issuance configuration

jwt Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*jwt-list*
Collection URI	/axapi/v3/aam/authentication/jwt
Element Name	jwt
Element URI	/axapi/v3/aam/authentication/jwt/{name}
Element Attributes	jwt_attributes
Partition Visibility	shared
Schema	`jwt schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/jwt

jwt attributes

```
POST /axapi/v3/aam/authentication/jwt/
Payload:
{
    "jwt": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/jwt

jwt attributes

Get Object

GET

/axapi/v3/aam/authentication/jwt/{name}

jwt attributes

```
GET /axapi/v3/aam/authentication/jwt/a
Reponse:
{
    "jwt": {
        "name": "a",
        "token-lifetime": 300,
        "signature-secret": 0,
        "uuid": "e51de644-086e-11f0-847f-51c757813e60",
```

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```
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authentication/jwt/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/jwt

jwt-list

Modify Object

POST

/axapi/v3/aam/authentication/jwt/{name}

jwt attributes

Replace Object

PUT

/axapi/v3/aam/authentication/jwt/{name}

jwt attributes

```
PUT /axapi/v3/aam/authentication/jwt/a
Payload:
{
    "jwt": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/jwt

jwt-list

Delete Object

DELETE

/axapi/v3/aam/authentication/jwt/{name}

jwt attributes

```
DELETE /axapi/v3/aam/authentication/jwt/a
Reponse:
{
    "response": {
        "http-status": 200,
```

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```
        "status": "OK",
        "msg": "Success"
    }
}
```

jwt-list

jwt-list is **JSON List** of *jwt attributes*

jwt-list : [

{ *jwt attributes* },

{ *jwt attributes* },

...

]

jwt attributes

action

Description 'redirect': redirect JWT to specific URI; 'relay': relay JWT to back-end;

Type: string

Supported Values: redirect, relay

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

issuer

Description Specify JWT issuer claim value

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

jwt-relay-uri

Description Specify JWT relay URI (for relay action)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

name

Description Specify JWT issuer template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

secret-string

Description The JWT signature secret

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

signature-secret

Description Specify the JWT signature secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-lifetime

Description Specify JWT token lifetime (Specify lifetime (in seconds), default is 300.)

Type: number

Range: 0-86400

Default: 300

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.26 aam authentication log

Authentication log configuration

log Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	log
Element URI	/axapi/v3/aam/authentication/log
Element Attributes	log_attributes
Partition Visibility	shared
Schema	`log schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/log

log attributes

```
POST /axapi/v3/aam/authentication/log
Payload:
{
    "log": {
        "enable": 1
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/log

log attributes

```
GET /axapi/v3/aam/authentication/log
Reponse:
{
    "log": {
        "enable": 1,
        "facility": "local0",
        "uuid": "14f0904c-086f-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/log"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/log

log attributes

Replace Object

PUT

/axapi/v3/aam/authentication/log

log attributes

```
PUT /axapi/v3/aam/authentication/log
Payload:
{
    "log": {
        "enable": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/log

log attributes

```
DELETE /axapi/v3/aam/authentication/log
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

log attributes

enable

Description Enable authentication logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

facility

Description 'local0': Local use; 'local1': Local use; 'local2': Local use; 'local3': Local use; 'local4': Local use; 'local5': Local use; 'local6': Local use; 'local7': Local use;

Type: string

Supported Values: local0, local1, local2, local3, local4, local5, local6, local7

Default: local0

format

Description 'syslog': Syslog Format (default); 'cef': Common Event Format;

Type: string

Supported Values: syslog, cef

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.27 aam authentication logon

Authentication logon configuration

logon Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	logon
Element URI	/axapi/v3/aam/authentication/logon
Element Attributes	logon_attributes
Partition Visibility	shared
Schema	`logon schema`

Operations Allowed:

Get Object

GET

/axapi/v3/aam/authentication/logon

logon_attributes

logon attributes

form-based-list

Type: List

Reference Object: */axapi/v3/aam/authentication/logon/form-based/{name}*

http-authenticate

Description: http-authenticate is a **JSON Block**. Please see below for *http-authenticate*

Type: Object

Reference Object: */axapi/v3/aam/authentication/logon/http-authenticate*

form-based-list

Specification	Value
Type	*list*
Block object keys	

account-lock

Description Lock the account when the failed logon attempts is exceeded

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

challenge-variable

Description Specify challenge variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-page-cfg

Description: cp-page-cfg is a **JSON Block**. Please see below for *form-based-list_cp-page-cfg*

Type: Object

csp-support

Description: csp-support is a **JSON Block**. Please see below for *form-based-list_csp-support*

Type: Object

duration

Description The time an account remains locked in seconds (default 1800)

Type: number

Range: 1-86400

Default: 1800

hsts-timeout

Description Set HSTS policy expired timeout in seconds, 0 means to disable HSTS policy

Type: number

Range: 0-315360000

logon-page-cfg

Description: logon-page-cfg is a **JSON Block**. Please see below for *form-based-list_logon-page-cfg*

Type: Object

name

Description Specify form-based authentication logon name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pin-variable

Description Specify new-pin variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-variable

Description Specify next-token variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

notify-cp-page-cfg

Description: notify-cp-page-cfg is a **JSON Block**. Please see below for *form-based-list_notify-cp-page-cfg*

Type: Object

portal

Description: portal is a **JSON Block**. Please see below for *form-based-list_portal*

Type: Object

retry

Description Maximum number of consecutive failed logon attempts (default 3)

Type: number

Range: 1-32

Default: 3

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

form-based-list_csp-support

Specification	Value
Type	*object*

none

Description Set CSP frame-ancestors to none (also X-Frame-Options deny)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: none, self, and specificURI are mutually exclusive

optional-second-URI

Description Set optional second customized CSP URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

self

Description Set CSP frame-ancestors to self (also X-Frame-Options same-origin)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: self and none are mutually exclusive

specificURI

Description Set customized CSP frame-ancestors (maximum 2 URIs can be set)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: specificURI and none are mutually exclusive

form-based-list_notify-cp-page-cfg

Specification	Value
Type	*object*

notifychangepassword-change-url

Description Specify change password action url for notifychangepassword form

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

notifychangepassword-continue-url

Description Specify continue action url for notifychangepassword form

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

form-based-list_portal

Specification	Value
Type	*object*

challenge-page

Description Specify challenge page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-page, new-pin-page, and next-token-page are mutually exclusive

changepasswordpage

Description Specify change password page name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

default-portal

Description Use default portal

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: default-portal and portal-name are mutually exclusive

failpage

Description Specify logon fail page name (portal fail page name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logon

Description Specify logon page name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pin-page

Description Specify new PIN page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-pin-page and challenge-page are mutually exclusive

next-token-page

Description Specify next token page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: next-token-page and challenge-page are mutually exclusive

notifychangepasswordpage

Description Specify change password notification page name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

portal-name

Description Specify portal name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: portal-name and default-portal are mutually exclusive

form-based-list_logon-page-cfg

Specification	Value
Type	*object*

action-url

Description Specify form submission action url

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

authz-failure-message

Description Specify authorization failure message shown in logon page (Specify error string, default is "Authorization failed. Please contact your system administrator.")

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

captcha-variable

Description Specify captcha variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

disable-change-password-link

Description Don't display change password link on logon page forcibly even backend authentication server supports it (LDAP or Kerberos)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

login-failure-message

Description Specify login failure message shown in logon page (Specify error string, default is “Invalid username or password. Please try again.”)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

passcode-variable

Description Specify passcode variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

password-variable

Description Specify password variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username-variable

Description Specify username variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

form-based-list_cp-page-cfg

Specification	Value
Type	*object*

changepassword-url

Description Specify changepassword form submission action url (changepassword action url)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

cp-cfm-pwd-enum

Description 'changepassword-password-confirm-variable': Specify password confirm variable name in form submission;

Type: string

Supported Values: changepassword-password-confirm-variable

cp-cfm-pwd-var

Description Specify password confirm variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-new-pwd-enum

Description 'changepassword-new-password-variable': Specify new password variable name in form submission;

Type: string

Supported Values: changepassword-new-password-variable

cp-new-pwd-var

Description Specify new password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-old-pwd-enum

Description 'changepassword-old-password-variable': Specify old password variable name in form submission;

Type: string

Supported Values: changepassword-old-password-variable

cp-old-pwd-var

Description Specify old password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-user-enum

Description 'changepassword-username-variable': Specify username variable name in form submission;

Type: string

Supported Values: changepassword-username-variable

cp-user-var

Description Specify username variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-authenticate

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}*

http-authenticate_instance-list

Specification	Value
Type	*list*
Block object keys	

account-lock

Description Lock the account when the failed logon attempts is exceeded

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-method

Description: auth-method is a **JSON Block**. Please see below for *http-authenticate_instance-list_auth-method*

Type: Object

duration

Description The time an account remains locked in seconds (default 1800)

Type: number

Range: 1-86400

Default: 1800

hsts-timeout

Description Set HSTS policy expired timeout in seconds, 0 means to disable HSTS policy

Type: number

Range: 0-315360000

name

Description Specify HTTP-Authenticate logon name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-logon-http-ins-tmpl*

retry

Description Maximum number of consecutive failed logon attempts (default 3)

Type: number

Range: 1-32

Default: 3

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

http-authenticate_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'spn_krb_request': SPN Kerberos Request; 'spn_krb_success': SPN Kerberos Success; 'spn_krb_faiure': SPN Kerberos Failure;

Type: string

Supported Values: all, spn_krb_request, spn_krb_success, spn_krb_faiure

http-authenticate_instance-list_auth-method

Specification	Value
Type	*object*

basic

Description: basic is a **JSON Block**. Please see below for *http-authenticate_instance-list_auth-method_basic*

Type: Object

negotiate

Description: negotiate is a **JSON Block**. Please see below for *http-authenticate_instance-list_auth-method_negotiate*

Type: Object

http-authenticate_instance-list_auth-method_negotiate

Specification	Value
Type	*object*

negotiate-enable

Description Enable SPENGO logon

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-authenticate_instance-list_auth-method_basic

Specification	Value
Type	*object*

basic-enable

Description Enable Basic logon

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

basic-realm

Description Specify realm for basic logon

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

challenge-page

Description Specify challenge page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-page and new-pin-page are mutually exclusive

challenge-response-form

Description Specify challenge-response form for RSA-RADIUS authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

challenge-variable

Description Specify challenge variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pin-page

Description Specify new PIN page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-pin-page and challenge-page are mutually exclusive

new-pin-variable

Description Specify new PIN variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-page

Description Specify next-token page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-variable

Description Specify next-token variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.1.28 aam authentication logon form-based

Form-based Authentication Logon

form-based Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*form-based-list*
Collection URI	/axapi/v3/aam/authentication/logon/form-based
Element Name	form-based
Element URI	/axapi/v3/aam/authentication/logon/form-based/{name}
Element Attributes	form-based_attributes
Partition Visibility	shared
Schema	`form-based schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/logon/form-based

form-based attributes

```
POST /axapi/v3/aam/authentication/logon/form-based/
Payload:
{
    "form-based": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/logon/form-based

form-based attributes

Get Object

GET

/axapi/v3/aam/authentication/logon/form-based/{name}

form-based attributes

```
GET /axapi/v3/aam/authentication/logon/form-based/a
Reponse:
{
    "form-based": {
        "name": "a",
        "portal": {
            "default-portal": 0
        },
```

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```
        "csp-support": {
            "none": 0
        },
        "logon-page-cfg": {
            "disable-change-password-link": 0
        },
        "retry": 3,
        "account-lock": 0,
        "uuid": "5a855340-086f-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authentication/logon/form-based/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/logon/form-based

form-based-list

Modify Object

POST

/axapi/v3/aam/authentication/logon/form-based/{name}

form-based attributes

Replace Object

PUT

/axapi/v3/aam/authentication/logon/form-based/{name}

form-based attributes

```
PUT /axapi/v3/aam/authentication/logon/form-based/a
Payload:
{
    "form-based": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/logon/form-based

form-based-list

Delete Object

DELETE

/axapi/v3/aam/authentication/logon/form-based/{name}

form-based attributes

```
DELETE /axapi/v3/aam/authentication/logon/form-based/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

form-based-list

form-based-list is **JSON List** of *form-based attributes*

form-based-list : [

{ *form-based attributes* },

{ *form-based attributes* },

...

]

form-based attributes

account-lock

Description Lock the account when the failed logon attempts is exceeded

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

challenge-variable

Description Specify challenge variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-page-cfg

Description: cp-page-cfg is a **JSON Block**. Please see below for *cp-page-cfg*

Type: Object

csp-support

Description: csp-support is a **JSON Block**. Please see below for *csp-support*

Type: Object

duration

Description The time an account remains locked in seconds (default 1800)

Type: number

Range: 1-86400

Default: 1800

hsts-timeout

Description Set HSTS policy expired timeout in seconds, 0 means to disable HSTS policy

Type: number

Range: 0-315360000

logon-page-cfg

Description: logon-page-cfg is a **JSON Block**. Please see below for *logon-page-cfg*

Type: Object

name

Description Specify form-based authentication logon name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pin-variable

Description Specify new-pin variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-variable

Description Specify next-token variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

notify-cp-page-cfg

Description: notify-cp-page-cfg is a **JSON Block**. Please see below for *notify-cp-page-cfg*

Type: Object

portal

Description: portal is a **JSON Block**. Please see below for *portal*

Type: Object

retry

Description Maximum number of consecutive failed logon attempts (default 3)

Type: number

Range: 1-32

Default: 3

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

csp-support

Specification	Value
Type	*object*

none

Description Set CSP frame-ancestors to none (also X-Frame-Options deny)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: none, self, and specificURI are mutually exclusive

optional-second-URI

Description Set optional second customized CSP URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

self

Description Set CSP frame-ancestors to self (also X-Frame-Options same-origin)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: self and none are mutually exclusive

specificURI

Description Set customized CSP frame-ancestors (maximum 2 URIs can be set)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: specificURI and none are mutually exclusive

notify-cp-page-cfg

Specification	Value
Type	*object*

notifychangepassword-change-url

Description Specify change password action url for notifychangepassword form

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

notifychangepassword-continue-url

Description Specify continue action url for notifychangepassword form

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

portal

Specification	Value
Type	*object*

challenge-page

Description Specify challenge page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-page, new-pin-page, and next-token-page are mutually exclusive

changepasswordpage

Description Specify change password page name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

default-portal

Description Use default portal

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: default-portal and portal-name are mutually exclusive

failpage

Description Specify logon fail page name (portal fail page name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logon

Description Specify logon page name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pin-page

Description Specify new PIN page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-pin-page and challenge-page are mutually exclusive

next-token-page

Description Specify next token page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: next-token-page and challenge-page are mutually exclusive

notifychangepasswordpage

Description Specify change password notification page name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

portal-name

Description Specify portal name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: portal-name and default-portal are mutually exclusive

logon-page-cfg

Specification	Value
Type	*object*

action-url

Description Specify form submission action url

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

authz-failure-message

Description Specify authorization failure message shown in logon page (Specify error string, default is "Authorization failed. Please contact your system administrator.")

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

captcha-variable

Description Specify captcha variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

disable-change-password-link

Description Don't display change password link on logon page forcibly even backend authentication server supports it (LDAP or Kerberos)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

login-failure-message

Description Specify login failure message shown in logon page (Specify error string, default is "Invalid username or password. Please try again.")

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

passcode-variable

Description Specify passcode variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

password-variable

Description Specify password variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username-variable

Description Specify username variable name in form submission

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-page-cfg

Specification	Value
Type	*object*

changepassword-url

Description Specify changepassword form submission action url (changepassword action url)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

cp-cfm-pwd-enum

Description 'changepassword-password-confirm-variable': Specify password confirm variable name in form submission;

Type: string

Supported Values: changepassword-password-confirm-variable

cp-cfm-pwd-var

Description Specify password confirm variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-new-pwd-enum

Description 'changepassword-new-password-variable': Specify new password variable name in form submission;

Type: string

Supported Values: changepassword-new-password-variable

cp-new-pwd-var

Description Specify new password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-old-pwd-enum

Description 'changepassword-old-password-variable': Specify old password variable name in form submission;

Type: string

Supported Values: changepassword-old-password-variable

cp-old-pwd-var

Description Specify old password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cp-user-enum

Description 'changepassword-username-variable': Specify username variable name in form submission;

Type: string

Supported Values: changepassword-username-variable

cp-user-var

Description Specify username variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.1.29 aam authentication logon http-authenticate

HTTP-authenticate Logon

http-authenticate Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	http-authenticate
Element URI	/axapi/v3/aam/authentication/logon/http-authenticate
Element Attributes	http-authenticate_attributes
Partition Visibility	shared
Schema	`http-authenticate schema`

Operations Allowed:

Get Object

GET

/axapi/v3/aam/authentication/logon/http-authenticate

http-authenticate_attributes

http-authenticate attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}*

instance-list

Specification	Value
Type	*list*
Block object keys	

account-lock

Description Lock the account when the failed logon attempts is exceeded

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-method

Description: auth-method is a **JSON Block**. Please see below for *instance-list_auth-method*

Type: Object

duration

Description The time an account remains locked in seconds (default 1800)

Type: number

Range: 1-86400

Default: 1800

hsts-timeout

Description Set HSTS policy expired timeout in seconds, 0 means to disable HSTS policy

Type: number

Range: 0-315360000

name

Description Specify HTTP-Authenticate logon name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-logon-http-ins-tmpl*

retry

Description Maximum number of consecutive failed logon attempts (default 3)

Type: number

Range: 1-32

Default: 3

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'spn_krb_request': SPN Kerberos Request; 'spn_krb_success': SPN Kerberos Success; 'spn_krb_faiure': SPN Kerberos Failure;

Type: string

Supported Values: all, spn_krb_request, spn_krb_success, spn_krb_faiure

instance-list_auth-method

Specification	Value
Type	*object*

basic

Description: basic is a **JSON Block**. Please see below for *instance-list_auth-method_basic*

Type: Object

negotiate

Description: negotiate is a **JSON Block**. Please see below for *instance-list_auth-method_negotiate*

Type: Object

instance-list_auth-method_negotiate

Specification	Value
Type	*object*

negotiate-enable

Description Enable SPENGO logon

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

instance-list_auth-method_basic

Specification	Value
Type	*object*

basic-enable

Description Enable Basic logon

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

basic-realm

Description Specify realm for basic logon

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

challenge-page

Description Specify challenge page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-page and new-pin-page are mutually exclusive

challenge-response-form

Description Specify challenge-response form for RSA-RADIUS authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

challenge-variable

Description Specify challenge variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pin-page

Description Specify new PIN page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-pin-page and challenge-page are mutually exclusive

new-pin-variable

Description Specify new PIN variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-page

Description Specify next-token page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-variable

Description Specify next-token variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.1.30 aam authentication logon http-authenticate instance

HTTP-authenticate Logon

instance Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/logon/http-authenticate/instance
Element Name	instance
Element URI	/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}
Element Attributes	instance_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}/stats
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/logon/http-authenticate/instance

instance attributes

```
POST /axapi/v3/aam/authentication/logon/http-authenticate/instance/
Payload:
{
    "instance": {
        "name": "a",
        "auth-method": {
            "basic": {
                "basic-realm": "a"
            }
        }
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/logon/http-authenticate/instance

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}

instance attributes

```
GET /axapi/v3/aam/authentication/logon/http-authenticate/instance/a
Reponse:
{
```

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```
    "instance": {
        "name": "a",
        "auth-method": {
            "basic": {
                "basic-realm": "a",
                "basic-enable": 0
            },
            "negotiate": {
                "negotiate-enable": 0
            }
        },
        "retry": 3,
        "account-lock": 0,
        "uuid": "e3689b7a-0871-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/logon/http-authenticate/instance/a"
    }
}
```


Get List

GET

/axapi/v3/aam/authentication/logon/http-authenticate/instance

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}

instance attributes


```
PUT /axapi/v3/aam/authentication/logon/http-authenticate/instance/a
Payload:
{
    "instance": {
        "name": "a",
        "auth-method": {
            "basic": {
                "basic-realm": "abcd"
            }
        }
    }
}
```


Replace List

PUT

/axapi/v3/aam/authentication/logon/http-authenticate/instance

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}

instance attributes

```
DELETE /axapi/v3/aam/authentication/logon/http-authenticate/instance/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

account-lock

Description Lock the account when the failed logon attempts is exceeded

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-method

Description: auth-method is a **JSON Block**. Please see below for *auth-method*

Type: Object

duration

Description The time an account remains locked in seconds (default 1800)

Type: number

Range: 1-86400

Default: 1800

hsts-timeout

Description Set HSTS policy expired timeout in seconds, 0 means to disable HSTS policy

Type: number

Range: 0-315360000

name

Description Specify HTTP-Authenticate logon name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-logon-http-ins-tmpl*

retry

Description Maximum number of consecutive failed logon attempts (default 3)

Type: number

Range: 1-32

Default: 3

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'spn_krb_request': SPN Kerberos Request; 'spn_krb_success': SPN Kerberos Success; 'spn_krb_faiure': SPN Kerberos Failure;

Type: string

Supported Values: all, spn_krb_request, spn_krb_success, spn_krb_faiure

auth-method

Specification	Value
Type	*object*

basic

Description: basic is a **JSON Block**. Please see below for *auth-method_basic*

Type: Object

negotiate

Description: negotiate is a **JSON Block**. Please see below for *auth-method_negotiate*

Type: Object

auth-method_negotiate

Specification	Value
Type	*object*

negotiate-enable

Description Enable SPENGO logon

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-method_basic

Specification	Value
Type	*object*

basic-enable

Description Enable Basic logon

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

basic-realm

Description Specify realm for basic logon

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

challenge-page

Description Specify challenge page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-page and new-pin-page are mutually exclusive

challenge-response-form

Description Specify challenge-response form for RSA-RADIUS authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

challenge-variable

Description Specify challenge variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pin-page

Description Specify new PIN page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-pin-page and challenge-page are mutually exclusive

new-pin-variable

Description Specify new PIN variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-page

Description Specify next-token page name for RSA-RADIUS

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

next-token-variable

Description Specify next-token variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.1.31 aam authentication logon http-authenticate instance stats

Statistics for the object instance

instance Specification

Parameter	Value
Type	*Collection*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}
Element Name	instance
Element URI	/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}/stats
Element Attributes	instance_attributes
Partition Visibility	None
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}

instance attributes

Create List

POST

/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}/stats

instance attributes

Get List

GET

/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}/stats

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}/stats

instance attributes

Replace List

PUT

/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/logon/http-authenticate/instance/{name}/stats

instance attributes

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

name

Description Specify HTTP-Authenticate logon name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

spn_krb_faiure

Description SPN Kerberos Failure

Type: number

Format: counter

spn_krb_request

Description SPN Kerberos Request

Type: number

Format: counter

spn_krb_success

Description SPN Kerberos Success

Type: number

Format: counter

2.1.32 aam authentication oauth

AAM Oauth 2.0 related configuration

oauth Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	oauth
Element URI	/axapi/v3/aam/authentication/oauth
Element Attributes	oauth_attributes
Partition Visibility	shared
Schema	`oauth schema`

Operations Allowed:

Get Object

GET

/axapi/v3/aam/authentication/oauth

oauth_attributes

oauth attributes

authorization-server-list

Type: List

Reference Object: */axapi/v3/aam/authentication/oauth/authorization-server/{name}*

client-list

Type: List

Reference Object: */axapi/v3/aam/authentication/oauth/client/{name}*

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/aam/authentication/oauth/global*

global

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auth-req': some help string; 'auth-succ': some help string; 'auth-fail': some help string; 'auth-error': some help string; 'relay-req': some help string; 'relay-succ': some help string; 'relay-fail': some help string; 'other-error': some help string;

Type: string

Supported Values: all, auth-req, auth-succ, auth-fail, auth-error, relay-req, relay-succ, relay-fail, other-error

client-list

Specification	Value
Type	*list*
Block object keys	

client-id

Description Specify oauth client-id

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

client-secret

Description

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

grant-type

Description 'implicit': The authorization server will return access token directly.; 'authorization-code': The authorization server will respond with code which can be exchange for access token.; 'hybrid-code-id-token': The authorization server will respond with both code and id token.; 'hybrid-code-token': The authorization server will respond with both code and access token.; 'hybrid-all': The authorization server will respond with code, access token and id token;

Type: string

Supported Values: implicit, authorization-code, hybrid-code-id-token, hybrid-code-token, hybrid-all

infinity

Description Auth session never time out whatever value oauth servers' response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: infinity and token-lifetime are mutually exclusive

name

Description Specify client object name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

no-reply

Description AX will not check the nonce value in response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

parameter-nonce-enable

Description Enable nonce parameter for authorization and token request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

redirection-endpoint

Description Oauth client redirection endpoint service URL.

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

scope

Description Specify request scope parameters (e.g. profile email address phone)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

session-init-ttl

Description TTL for Thunder to wait for first response from authorization server

Type: number

Range: 1-60

token-lifetime

Description

Type: number

Range: 1-2592000

Mutual Exclusion: token-lifetime and infinity are mutually exclusive

type

Description 'openid-connect': openid-connect;

Type: string

Supported Values: openid-connect

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authorization-server-list

Specification	Value
Type	*list*
Block object keys	

authorization-endpoint

Description Specify URI for authorization

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

client-method

Description 'ignored': Clients' browser will send data according to server spec (default); 'post': Clients' browser will send data by POST; 'get': Clients' browser will send data by GET;

Type: string

Supported Values: ignored, post, get

issuer

Description Specify openid provider name for authorization

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

name

Description Specify authorization server object name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

server-method

Description 'post': AX will send data to server by POST (default); 'get': AX will send data to server by GET;

Type: string

Supported Values: post, get

token-endpoint

Description Specify URI for token exchange

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

verification-cert

Description Specify certificate to verify ID token signature

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-cert and verification-jwks are mutually exclusive

verification-jwks

Description Specify jwks file to verify ID token signature

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-jwks and verification-cert are mutually exclusive

authorization-server-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auth-req': some help string; 'auth-succ': some help string; 'auth-fail': some help string; 'auth-error': some help string; 'other-error': some help string;

Type: string

Supported Values: all, auth-req, auth-succ, auth-fail, auth-error, other-error

2.1.33 aam authentication oauth authorization-server

Authentication 2.0 authorization server

authorization-server Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*authorization-server-list*
Collection URI	/axapi/v3/aam/authentication/oauth/authorization-server
Element Name	authorization-server
Element URI	/axapi/v3/aam/authentication/oauth/authorization-server/{name}
Element Attributes	authorization-server_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/oauth/authorization-server/{name}/stats
Schema	`authorization-server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/oauth/authorization-server

authorization-server attributes

```
POST /axapi/v3/aam/authentication/oauth/authorization-server/
Payload:
{
    "authorization-server": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/oauth/authorization-server

authorization-server attributes

Get Object

GET

/axapi/v3/aam/authentication/oauth/authorization-server/{name}

authorization-server attributes

```
GET /axapi/v3/aam/authentication/oauth/authorization-server/a
Reponse:
{
    "authorization-server": {
        "name": "a",
        "uuid": "44a81d48-0872-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authentication/oauth/authorization-server/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/oauth/authorization-server

authorization-server-list

Modify Object

POST

/axapi/v3/aam/authentication/oauth/authorization-server/{name}

authorization-server attributes

Replace Object

PUT

/axapi/v3/aam/authentication/oauth/authorization-server/{name}

authorization-server attributes

```
PUT /axapi/v3/aam/authentication/oauth/authorization-server/a
Payload:
{
    "authorization-server": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/oauth/authorization-server

authorization-server-list

Delete Object

DELETE

/axapi/v3/aam/authentication/oauth/authorization-server/{name}

authorization-server attributes

```
DELETE /axapi/v3/aam/authentication/oauth/authorization-server/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

authorization-server-list

authorization-server-list is **JSON List** of *authorization-server attributes*

authorization-server-list : [

{ *authorization-server attributes* },

{ *authorization-server attributes* },

...

]

authorization-server attributes

authorization-endpoint

Description Specify URI for authorization

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

client-method

Description 'ignored': Clients' browser will send data according to server spec (default); 'post': Clients' browser will send data by POST; 'get': Clients' browser will send data by GET;

Type: string

Supported Values: ignored, post, get

issuer

Description Specify openid provider name for authorization

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

name

Description Specify authorization server object name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

server-method

Description 'post': AX will send data to server by POST (default); 'get': AX will send data to server by GET;

Type: string

Supported Values: post, get

token-endpoint

Description Specify URI for token exchange

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

verification-cert

Description Specify certificate to verify ID token signature

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-cert and verification-jwks are mutually exclusive

verification-jwks

Description Specify jwks file to verify ID token signature

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-jwks and verification-cert are mutually exclusive

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auth-req': some help string; 'auth-succ': some help string; 'auth-fail': some help string; 'auth-error': some help string; 'other-error': some help string;

Type: string

Supported Values: all, auth-req, auth-succ, auth-fail, auth-error, other-error

2.1.34 aam authentication oauth authorization-server stats

Statistics for the object authorization-server

authorization-server Specification

Parameter	Value
Type	*Collection*
Collection Name	*authorization-server-list*
Collection URI	/axapi/v3/aam/authentication/oauth/authorization-server/{name}
Element Name	authorization-server
Element URI	/axapi/v3/aam/authentication/oauth/authorization-server/{name}/stats
Element Attributes	authorization-server_attributes
Partition Visibility	None
Schema	`authorization-server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/oauth/authorization-server/{name}

authorization-server attributes

Create List

POST

/axapi/v3/aam/authentication/oauth/authorization-server/{name}

authorization-server attributes

Get Object

GET

/axapi/v3/aam/authentication/oauth/authorization-server/{name}/stats

authorization-server attributes

Get List

GET

/axapi/v3/aam/authentication/oauth/authorization-server/{name}

authorization-server-list

Modify Object

POST

/axapi/v3/aam/authentication/oauth/authorization-server/{name}/stats

authorization-server attributes

Replace Object

PUT

/axapi/v3/aam/authentication/oauth/authorization-server/{name}/stats

authorization-server attributes

Replace List

PUT

/axapi/v3/aam/authentication/oauth/authorization-server/{name}

authorization-server-list

Delete Object

DELETE

/axapi/v3/aam/authentication/oauth/authorization-server/{name}/stats

authorization-server attributes

authorization-server-list

authorization-server-list is **JSON List** of *authorization-server attributes*

authorization-server-list : [

{ *authorization-server attributes* },

{ *authorization-server attributes* },

...

]

authorization-server attributes

name

Description Specify authorization server object name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

auth-error

Description some help string

Type: number

Format: counter

auth-fail

Description some help string

Type: number

Format: counter

auth-req

Description some help string

Type: number

Format: counter

auth-succ

Description some help string

Type: number

Format: counter

other-error

Description some help string

Type: number

Format: counter

2.1.35 aam authentication oauth client

Authentication 2.0 Oauth client

client Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*client-list*
Collection URI	/axapi/v3/aam/authentication/oauth/client
Element Name	client
Element URI	/axapi/v3/aam/authentication/oauth/client/{name}
Element Attributes	client_attributes
Partition Visibility	shared
Schema	`client schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/oauth/client

client attributes

```
POST /axapi/v3/aam/authentication/oauth/client/
Payload:
{
    "client": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/oauth/client

client attributes

Get Object

GET

/axapi/v3/aam/authentication/oauth/client/{name}

client attributes

```
GET /axapi/v3/aam/authentication/oauth/client/a
Reponse:
{
```

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```
    "client": {
        "name": "a",
        "parameter-nonce-enable": 0,
        "infinity": 0,
        "uuid": "75d9a260-0872-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authentication/oauth/client/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/oauth/client

client-list

Modify Object

POST

/axapi/v3/aam/authentication/oauth/client/{name}

client attributes

Replace Object

PUT

/axapi/v3/aam/authentication/oauth/client/{name}

client attributes

```
PUT /axapi/v3/aam/authentication/oauth/client/a
Payload:
{
    "client": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/oauth/client

client-list

Delete Object

DELETE

/axapi/v3/aam/authentication/oauth/client/{name}

client attributes

```
DELETE /axapi/v3/aam/authentication/oauth/client/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

client-list

client-list is **JSON List** of *client attributes*

client-list : [

{ *client attributes* },

{ *client attributes* },

...

]

client attributes

client-id

Description Specify oauth client-id

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

client-secret

Description

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

grant-type

Description 'implicit': The authorization server will return access token directly.; 'authorization-code': The authorization server will respond with code which can be exchange for access token.; 'hybrid-code-id-token': The authorization server will respond with both code

and id token.; 'hybrid-code-token': The authorization server will respond with both code and access token.; 'hybrid-all': The authorization server will respond with code, access token and id token;

Type: string

Supported Values: implicit, authorization-code, hybrid-code-id-token, hybrid-code-token, hybrid-all

infinity

Description Auth session never time out whatever value oauth servers' response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: infinity and token-lifetime are mutually exclusive

name

Description Specify client object name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

no-reply

Description AX will not check the nonce value in response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

parameter-nonce-enable

Description Enable nonce parameter for authorization and token request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

redirection-endpoint

Description Oauth client redirection endpoint service URL.

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

scope

Description Specify request scope parameters (e.g. profile email address phone)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

session-init-ttl

Description TTL for Thunder to wait for first response from authorization server

Type: number

Range: 1-60

token-lifetime

Description

Type: number

Range: 1-2592000

Mutual Exclusion: token-lifetime and infinity are mutually exclusive

type

Description 'openid-connect': openid-connect;

Type: string

Supported Values: openid-connect

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.36 aam authentication oauth global

Global Oauth statistics

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/aam/authentication/oauth/global
Element Attributes	global_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/oauth/global/stats
Operational Data URI	/axapi/v3/aam/authentication/oauth/global/oper
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/oauth/global

global attributes

```
POST /axapi/v3/aam/authentication/oauth/global
Payload:
{
    "global": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/oauth/global

global attributes

```
GET /axapi/v3/aam/authentication/oauth/global
Reponse:
{
    "global": {
        "uuid": "5605f798-086a-11f0-b2f1-51c757813e60",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/aam/authentication/oauth/global"
```

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```
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/oauth/global

global attributes

Replace Object

PUT

/axapi/v3/aam/authentication/oauth/global

global attributes

```
PUT /axapi/v3/aam/authentication/oauth/global
Payload:
{
    "global": {
        "sampling-enable": [
            {
                "counters1": "auth-req"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/oauth/global

global attributes

```
DELETE /axapi/v3/aam/authentication/oauth/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

global attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auth-req': some help string; 'auth-succ': some help string; 'auth-fail': some help string; 'auth-error': some help string; 'relay-req': some help string; 'relay-succ': some help string; 'relay-fail': some help string; 'other-error': some help string;

Type: string

Supported Values: all, auth-req, auth-succ, auth-fail, auth-error, relay-req, relay-succ, relay-fail, other-error

2.1.37 aam authentication oauth global oper

Operational Status for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/aam/authentication/oauth/global/oper
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/oauth/global/oper

global attributes

Get Object

GET

/axapi/v3/aam/authentication/oauth/global/oper

global attributes

Modify Object

POST

/axapi/v3/aam/authentication/oauth/global/oper

global attributes

Replace Object

PUT

/axapi/v3/aam/authentication/oauth/global/oper

global attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/oauth/global/oper

global attributes

global attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

stats-clear-type

Description

Type: string

Supported Values: server, relay

2.1.38 aam authentication oauth global stats

Statistics for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/aam/authentication/oauth/global/stats
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/oauth/global/stats

global attributes

Get Object

GET

/axapi/v3/aam/authentication/oauth/global/stats

global attributes

Modify Object

POST

/axapi/v3/aam/authentication/oauth/global/stats

global attributes

Replace Object

PUT

/axapi/v3/aam/authentication/oauth/global/stats

global attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/oauth/global/stats

global attributes

global attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

auth-error

Description some help string

Type: number

Format: counter

auth-fail

Description some help string

Type: number

Format: counter

auth-req

Description some help string

Type: number

Format: counter

auth-succ

Description some help string

Type: number

Format: counter

other-error

Description some help string

Type: number

Format: counter

relay-fail

Description some help string

Type: number

Format: counter

relay-req

Description some help string

Type: number

Format: counter

relay-succ

Description some help string

Type: number

Format: counter

2.1.39 aam authentication password-retry

password-retry Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	password-retry
Element URI	/axapi/v3/aam/authentication/password-retry
Element Attributes	password-retry_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/aam/authentication/password-retry/oper
Schema	`password-retry schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/password-retry

password-retry attributes

Get Object

GET

/axapi/v3/aam/authentication/password-retry

password-retry attributes

Modify Object

POST

/axapi/v3/aam/authentication/password-retry

password-retry attributes

Replace Object

PUT

/axapi/v3/aam/authentication/password-retry

password-retry attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/password-retry

password-retry attributes

password-retry attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.40 aam authentication password-retry oper

Operational Status for the object password-retry

password-retry Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	password-retry
Element URI	/axapi/v3/aam/authentication/password-retry/oper
Element Attributes	password-retry_attributes
Partition Visibility	None
Schema	`password-retry schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/password-retry/oper

password-retry attributes

Get Object

GET

/axapi/v3/aam/authentication/password-retry/oper

password-retry attributes

Modify Object

POST

/axapi/v3/aam/authentication/password-retry/oper

password-retry attributes

Replace Object

PUT

/axapi/v3/aam/authentication/password-retry/oper

password-retry attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/password-retry/oper

password-retry attributes

password-retry attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

entry-list

Type: List

logon-name

Description

Type: string

name

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

account

Description

Type: string

locked-out

Description

Type: string

logon

Description

Type: string

pw-failure

Description

Type: number

ttl

Description

Type: number

2.1.41 aam authentication portal

Authentication portal configuration

portal Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*portal-list*
Collection URI	/axapi/v3/aam/authentication/portal
Element Name	portal
Element URI	/axapi/v3/aam/authentication/portal/{name}
Element Attributes	portal_attributes
Partition Visibility	shared
Schema	`portal schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/portal

portal attributes

```
POST /axapi/v3/aam/authentication/portal/
Payload:
{
    "portal": {
        "name": "default-portal",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/portal

portal attributes

Get Object

GET

/axapi/v3/aam/authentication/portal/{name}

portal attributes

```
GET /axapi/v3/aam/authentication/portal/default-portal
Reponse:
{
    "portal": {
        "name": "default-portal",
        "uuid": "f02a4682-0872-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authentication/portal/default-portal"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/portal

portal-list

Modify Object

POST

/axapi/v3/aam/authentication/portal/{name}

portal attributes

Replace Object

PUT

/axapi/v3/aam/authentication/portal/{name}

portal attributes

```
PUT /axapi/v3/aam/authentication/portal/default-portal
Payload:
{
    "portal": {
        "name": "default-portal",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/portal

portal-list

Delete Object

DELETE

/axapi/v3/aam/authentication/portal/{name}

portal attributes

```
DELETE /axapi/v3/aam/authentication/portal/default-portal
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

portal-list

portal-list is **JSON List** of *portal attributes*

portal-list : [

{ *portal attributes* },

{ *portal attributes* },

...

]

portal attributes

change-password

Description: change-password is a **JSON Block**. Please see below for *change-password*

Type: Object

Reference Object: */axapi/v3/aam/authentication/portal/{name}/change-password*

logo-cfg

Description: logo-cfg is a **JSON Block**. Please see below for *logo-cfg*

Type: Object

logon

Description: logon is a **JSON Block**. Please see below for *logon*

Type: Object

Reference Object: */axapi/v3/aam/authentication/portal/{name}/logon*

logon-fail

Description: logon-fail is a **JSON Block**. Please see below for *logon-fail*

Type: Object

Reference Object: */axapi/v3/aam/authentication/portal/{name}/logon-fail*

name

Description 'default-portal': Default portal configuration;

Type: string

Supported Values: default-portal

notify-change-password

Description: notify-change-password is a **JSON Block**. Please see below for *notify-change-password*

Type: Object

Reference Object: */axapi/v3/aam/authentication/portal/{name}/notify-change-password*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logon-fail

Specification	Value
Type	*object*

background

Description: background is a **JSON Block**. Please see below for *logon-fail_background*

Type: Object

fail-msg-cfg

Description: fail-msg-cfg is a **JSON Block**. Please see below for *logon-fail_fail-msg-cfg*

Type: Object

title-cfg

Description: title-cfg is a **JSON Block**. Please see below for *logon-fail_title-cfg*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logon-fail_fail-msg-cfg

Specification	Value
Type	*object*

fail-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: fail-color-name and fail-color-value are mutually exclusive

fail-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: fail-color-value and fail-color-name are mutually exclusive

fail-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: fail-face and fail-font-custom are mutually exclusive

fail-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fail-font-custom and fail-face are mutually exclusive

fail-msg

Description Configure logon failure message in default logon fail page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fail-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

fail-text

Description Specify logon failure message (Default: Login Failed!!)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logon-fail_title-cfg

Specification	Value
Type	*object*

title

Description Configure title in default logon fail page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

title-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: title-color-name and title-color-value are mutually exclusive

title-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: title-color-value and title-color-name are mutually exclusive

title-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: title-face and title-font-custom are mutually exclusive

title-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: title-font-custom and title-face are mutually exclusive

title-size

Description Specify font size (Default: 5)

Type: number

Range: 1-7

Default: 5

title-text

Description Specify title (Default: Try Too Many Times)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logon-fail_background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

logo-cfg

Specification	Value
Type	*object*

height

Description Specify logo image height (Default: 71)

Type: number

Range: 50-400

Default: 71

logo

Description Specify logo image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

width

Description Specify logo image width (Default: 134)

Type: number

Range: 50-400

Default: 134

notify-change-password

Specification	Value
Type	*object*

background

Description: background is a **JSON Block**. Please see below for *notify-change-password_background*

Type: Object

cfm-pwd-cfg

Description: cfm-pwd-cfg is a **JSON Block**. Please see below for *notify-change-password_cfm-pwd-cfg*

Type: Object

change-text

Description Specify change button text in default change password notification page (Default: Change)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

change-url

Description Specify change password action URL in default change password notification page (Default: /notify_change.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

confirm-password-var

Description Specify confirm password variable name in default change password notification page (Default: cp_cfm_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

continue-text

Description Specify continue button text in default change password notification page (Default: Continue)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

continue-url

Description Specify continue action URL in default change password notification page (Default: /continue.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-password-var

Description Specify new password variable name in default change password notification page (Default: cp_new_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pwd-cfg

Description: new-pwd-cfg is a **JSON Block**. Please see below for *notify-change-password_new-pwd-cfg*

Type: Object

old-password-var

Description Specify old password variable name in default change password notification page (Default: cp_old_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

old-pwd-cfg

Description: old-pwd-cfg is a **JSON Block**. Please see below for *notify-change-password_old-pwd-cfg*

Type: Object

username-cfg

Description: username-cfg is a **JSON Block**. Please see below for *notify-change-password_username-cfg*

Type: Object

username-var

Description Specify username variable name in default change password notification page (Default: cp_usr)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

notify-change-password_new-pwd-cfg

Specification	Value
Type	*object*

new-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: new-color-name and new-color-value are mutually exclusive

new-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: new-color-value and new-color-name are mutually exclusive

new-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: new-face and new-font-custom are mutually exclusive

new-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-font-custom and new-face are mutually exclusive

new-password

Description Configure new password text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

new-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

new-text

Description Specify new password text (Default: New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

notify-change-password_old-pwd-cfg

Specification	Value
Type	*object*

old-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: old-color-name and old-color-value are mutually exclusive

old-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: old-color-value and old-color-name are mutually exclusive

old-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: old-face and old-font-custom are mutually exclusive

old-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: old-font-custom and old-face are mutually exclusive

old-password

Description Configure old password text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

old-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

old-text

Description Specify old password text (Default: Old Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

notify-change-password_background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

notify-change-password_cfm-pwd-cfg

Specification	Value
Type	*object*

cfm-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: cfm-color-name and cfm-color-value are mutually exclusive

cfm-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: cfm-color-value and cfm-color-name are mutually exclusive

cfm-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: cfm-face and cfm-font-custom are mutually exclusive

cfm-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: cfm-font-custom and cfm-face are mutually exclusive

cfm-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

cfm-text

Description Specify confirm password text (Default: Confirm New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

confirm-password

Description Configure confirm password text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

notify-change-password_username-cfg

Specification	Value
Type	*object*

user-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: user-color-name and user-color-value are mutually exclusive

user-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: user-color-value and user-color-name are mutually exclusive

user-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: user-face and user-font-custom are mutually exclusive

user-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: user-font-custom and user-face are mutually exclusive

user-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

user-text

Description Specify username text (Default: Username)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username

Description Configure username text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logon

Specification	Value
Type	*object*

action-url

Description Specify form action URL in default logon page (Default: /logon.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

background

Description: background is a **JSON Block**. Please see below for *logon_background*

Type: Object

captcha-type

Description 'reCAPTCHAv2-checkbox': Google reCAPTCHAv2 Checkbox; 'reCAPTCHAv2-invisible': Google reCAPTCHAv2 Invisible; 'reCAPTCHAv3': Google reCAPTCHAv3;

Type: string

Supported Values: reCAPTCHAv2-checkbox, reCAPTCHAv2-invisible, reCAPTCHAv3

enable-CAPTCHA

Description Enable CAPTCHA in deafult logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-passcode

Description Enable passcode field in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

fail-msg-cfg

Description: fail-msg-cfg is a **JSON Block**. Please see below for *logon_fail-msg-cfg*

Type: Object

passcode-cfg

Description: passcode-cfg is a **JSON Block**. Please see below for *logon_passcode-cfg*

Type: Object

passcode-var

Description Specify passcode variable name in default logon page (Default: passcode)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

password-cfg

Description: password-cfg is a **JSON Block**. Please see below for *logon_password-cfg*

Type: Object

password-var

Description Specify password variable name in default logon page (Default: pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

reCAPTCHA-cfg

Description: reCAPTCHA-cfg is a **JSON Block**. Please see below for *logon_reCAPTCHA-cfg*

Type: Object

site-key-string

Description Site key string

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

submit-text

Description Specify submit button text in default logon page (Default: Log In)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username-cfg

Description: username-cfg is a **JSON Block**. Please see below for *logon_username-cfg*

Type: Object

username-var

Description Specify username variable name in default logon page (Default: user)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logon_passcode-cfg

Specification	Value
Type	*object*

passcode

Description Configure passcode text in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

passcode-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

passcode-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: passcode-color-name and passcode-color-value are mutually exclusive

passcode-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: passcode-color-value and passcode-color-name are mutually exclusive

passcode-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: passcode-face and passcode-font-custom are mutually exclusive

passcode-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

passcode-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: passcode-font-custom and passcode-face are mutually exclusive

passcode-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

passcode-text

Description Specify passcode text (Default: Passcode)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logon_reCAPTCHA-cfg

Specification	Value
Type	*object*

reCAPTCHA-action

Description Specify reCAPTCHA action (Specify action string, only accept alphanumeric, underscore, and slash (Default: A10_DEFAULT_LOGON))

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: A10_DEFAULT_LOGON

reCAPTCHA-badge

Description 'bottom-left': bottom left corner; 'bottom-right': bottom right corner;

Type: string

Supported Values: bottom-left, bottom-right

Default: bottom-right

reCAPTCHA-size

Description 'normal': normal size; 'compact': compact size;

Type: string

Supported Values: normal, compact

Default: normal

reCAPTCHA-theme

Description 'light': light theme; 'dark': dark theme;

Type: string

Supported Values: light, dark

Default: light

logon_background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

logon_fail-msg-cfg

Specification	Value
Type	*object*

authz-fail-msg

Description Configure authorization failure message in default logon page, its text attributes follow fail-msg's (Specify authorization failure message (Default: Authorization failed. Please contact your system administrator.))

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

fail-color

Description Specify font color (Default: red)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: red

Mutual Exclusion: fail-color-name and fail-color-value are mutually exclusive

fail-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: fail-color-value and fail-color-name are mutually exclusive

fail-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: fail-face and fail-font-custom are mutually exclusive

fail-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fail-font-custom and fail-face are mutually exclusive

fail-msg

Description Configure login failure message in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fail-size

Description Specify font size (Default: 5)

Type: number

Range: 1-7

Default: 5

fail-text

Description Specify login failure message (Default: Invalid username or password. Please try again.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logon_password-cfg

Specification	Value
Type	*object*

pass-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

pass-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: pass-color-name and pass-color-value are mutually exclusive

pass-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: pass-color-value and pass-color-name are mutually exclusive

pass-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: pass-face and pass-font-custom are mutually exclusive

pass-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

pass-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: pass-font-custom and pass-face are mutually exclusive

pass-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

pass-text

Description Specify password text (Default: Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

password

Description Configure password text in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logon_username-cfg

Specification	Value
Type	*object*

user-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: user-color-name and user-color-value are mutually exclusive

user-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: user-color-value and user-color-name are mutually exclusive

user-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: user-face and user-font-custom are mutually exclusive

user-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: user-font-custom and user-face are mutually exclusive

user-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

user-text

Description Specify username text (Default: User Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username

Description Configure username text in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

change-password

Specification	Value
Type	*object*

action-url

Description Specify form action URL in default change password page (Default: /change.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

background

Description: background is a **JSON Block**. Please see below for *change-password_background*

Type: Object

cfm-pwd-cfg

Description: cfm-pwd-cfg is a **JSON Block**. Please see below for *change-password_cfm-pwd-cfg*

Type: Object

confirm-password-var

Description Specify confirm password variable name in default change password page (Default: cp_cfm_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-password-var

Description Specify new password variable name in default change password page (Default: cp_new_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pwd-cfg

Description: new-pwd-cfg is a **JSON Block**. Please see below for *change-password_new-pwd-cfg*

Type: Object

old-password-var

Description Specify old password variable name in default change password page (Default: cp_old_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

old-pwd-cfg

Description: old-pwd-cfg is a **JSON Block**. Please see below for *change-password_old-pwd-cfg*

Type: Object

reset-text

Description Specify reset button text in default change password page (Default: Reset)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

submit-text

Description Specify submit button text in default change password page (Default: Submit)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

title-cfg

Description: title-cfg is a **JSON Block**. Please see below for *change-password_title-cfg*

Type: Object

username-cfg

Description: username-cfg is a **JSON Block**. Please see below for *change-password_username-cfg*

Type: Object

username-var

Description Specify username variable name in default change password page (Default: cp_usr)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

change-password_new-pwd-cfg

Specification	Value
Type	*object*

new-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: new-color-name and new-color-value are mutually exclusive

new-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: new-color-value and new-color-name are mutually exclusive

new-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: new-face and new-font-custom are mutually exclusive

new-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-font-custom and new-face are mutually exclusive

new-password

Description Configure new password text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

new-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

new-text

Description Specify new password text (Default: New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

change-password_title-cfg

Specification	Value
Type	*object*

title

Description Configure title in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

title-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: title-color-name and title-color-value are mutually exclusive

title-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: title-color-value and title-color-name are mutually exclusive

title-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: title-face and title-font-custom are mutually exclusive

title-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: title-font-custom and title-face are mutually exclusive

title-size

Description Specify font size (Default: 5)

Type: number

Range: 1-7

Default: 5

title-text

Description Specify title (Default: Please Change Your Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

change-password_old-pwd-cfg

Specification	Value
Type	*object*

old-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: old-color-name and old-color-value are mutually exclusive

old-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: old-color-value and old-color-name are mutually exclusive

old-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: old-face and old-font-custom are mutually exclusive

old-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: old-font-custom and old-face are mutually exclusive

old-password

Description Configure old password text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

old-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

old-text

Description Specify old password text (Default: Old Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

change-password_background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

change-password_cfm-pwd-cfg

Specification	Value
Type	*object*

cfm-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: cfm-color-name and cfm-color-value are mutually exclusive

cfm-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: cfm-color-value and cfm-color-name are mutually exclusive

cfm-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: cfm-face and cfm-font-custom are mutually exclusive

cfm-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: cfm-font-custom and cfm-face are mutually exclusive

cfm-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

cfm-text

Description Specify confirm password text (Default: Confirm New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

confirm-password

Description Configure confirm password text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

change-password_username-cfg

Specification	Value
Type	*object*

user-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: user-color-name and user-color-value are mutually exclusive

user-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: user-color-value and user-color-name are mutually exclusive

user-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: user-face and user-font-custom are mutually exclusive

user-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: user-font-custom and user-face are mutually exclusive

user-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

user-text

Description Specify username text (Default: Username)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username

Description Configure username text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.1.42 aam authentication portal change-password

Change password page configuration

change-password Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	change-password
Element URI	/axapi/v3/aam/authentication/portal/{name}/change-password
Element Attributes	change-password_attributes
Partition Visibility	shared
Schema	`change-password schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/portal/{name}/change-password

change-password attributes

```
POST /axapi/v3/aam/authentication/portal/default-portal/change-password
Payload:
{
    "change-password": {
        "background": {
            "bgfile": "a"
        }
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/portal/{name}/change-password

change-password attributes

```
GET /axapi/v3/aam/authentication/portal/default-portal/change-password
Reponse:
{
    "change-password": {
        "background": {
            "bgcolor-name": "aqua"
        },
        "title-cfg": {
            "title": 0
        },
        "username-cfg": {
            "username": 0
        },
        "old-pwd-cfg": {
            "old-password": 0
        },
        "new-pwd-cfg": {
            "new-password": 0
        },
        "cfm-pwd-cfg": {
            "confirm-password": 0
        },
        "uuid": "37e7637e-0873-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/portal/default-portal/change-password"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/portal/{name}/change-password

change-password attributes

Replace Object

PUT

/axapi/v3/aam/authentication/portal/{name}/change-password

change-password attributes

```
PUT /axapi/v3/aam/authentication/portal/default-portal/change-password
Payload:
{
    "change-password": {
        "background": {
            "bgcolor-name": "black"
        }
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/portal/{name}/change-password

change-password attributes

```
DELETE /axapi/v3/aam/authentication/portal/default-portal/change-password
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

change-password attributes

action-url

Description Specify form action URL in default change password page (Default: /change.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

background

Description: background is a **JSON Block**. Please see below for *background*

Type: Object

cfm-pwd-cfg

Description: cfm-pwd-cfg is a **JSON Block**. Please see below for *cfm-pwd-cfg*

Type: Object

confirm-password-var

Description Specify confirm password variable name in default change password page (Default: cp_cfm_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-password-var

Description Specify new password variable name in default change password page (Default: cp_new_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pwd-cfg

Description: new-pwd-cfg is a **JSON Block**. Please see below for *new-pwd-cfg*

Type: Object

old-password-var

Description Specify old password variable name in default change password page (Default: cp_old_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

old-pwd-cfg

Description: old-pwd-cfg is a **JSON Block**. Please see below for *old-pwd-cfg*

Type: Object

reset-text

Description Specify reset button text in default change password page (Default: Reset)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

submit-text

Description Specify submit button text in default change password page (Default: Submit)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

title-cfg

Description: title-cfg is a **JSON Block**. Please see below for *title-cfg*

Type: Object

username-cfg

Description: username-cfg is a **JSON Block**. Please see below for *username-cfg*

Type: Object

username-var

Description Specify username variable name in default change password page (Default: cp_usr)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

new-pwd-cfg

Specification	Value
Type	*object*

new-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: new-color-name and new-color-value are mutually exclusive

new-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: new-color-value and new-color-name are mutually exclusive

new-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: new-face and new-font-custom are mutually exclusive

new-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-font-custom and new-face are mutually exclusive

new-password

Description Configure new password text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

new-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

new-text

Description Specify new password text (Default: New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

title-cfg

Specification	Value
Type	*object*

title

Description Configure title in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

title-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: title-color-name and title-color-value are mutually exclusive

title-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: title-color-value and title-color-name are mutually exclusive

title-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: title-face and title-font-custom are mutually exclusive

title-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: title-font-custom and title-face are mutually exclusive

title-size

Description Specify font size (Default: 5)

Type: number

Range: 1-7

Default: 5

title-text

Description Specify title (Default: Please Change Your Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

old-pwd-cfg

Specification	Value
Type	*object*

old-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: old-color-name and old-color-value are mutually exclusive

old-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: old-color-value and old-color-name are mutually exclusive

old-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: old-face and old-font-custom are mutually exclusive

old-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: old-font-custom and old-face are mutually exclusive

old-password

Description Configure old password text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

old-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

old-text

Description Specify old password text (Default: Old Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

cfm-pwd-cfg

Specification	Value
Type	*object*

cfm-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: cfm-color-name and cfm-color-value are mutually exclusive

cfm-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: cfm-color-value and cfm-color-name are mutually exclusive

cfm-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: cfm-face and cfm-font-custom are mutually exclusive

cfm-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: cfm-font-custom and cfm-face are mutually exclusive

cfm-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

cfm-text

Description Specify confirm password text (Default: Confirm New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

confirm-password

Description Configure confirm password text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

username-cfg

Specification	Value
Type	*object*

user-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: user-color-name and user-color-value are mutually exclusive

user-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: user-color-value and user-color-name are mutually exclusive

user-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: user-face and user-font-custom are mutually exclusive

user-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: user-font-custom and user-face are mutually exclusive

user-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

user-text

Description Specify username text (Default: Username)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username

Description Configure username text in default change password page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.1.43 aam authentication portal logon

Logon page configuration

logon Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	logon
Element URI	/axapi/v3/aam/authentication/portal/{name}/logon
Element Attributes	logon_attributes
Partition Visibility	shared
Schema	`logon schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/portal/{name}/logon

logon attributes

```
POST /axapi/v3/aam/authentication/portal/default-portal/logon
Payload:
{
    "logon": {
        "background": {
            "bgfile": "a"
        }
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/portal/{name}/logon

logon attributes

```
GET /axapi/v3/aam/authentication/portal/default-portal/logon
Reponse:
{
    "logon": {
        "background": {
            "bgcolor-name": "aqua"
        },
        "fail-msg-cfg": {
            "fail-msg": 0
        },
        "username-cfg": {
            "username": 0
        },
        "password-cfg": {
            "password": 0
        },
        "enable-passcode": 0,
        "passcode-cfg": {
            "passcode": 0
        },
        "enable-CAPTCHA": 0,
        "reCAPTCHA-cfg": {
            "reCAPTCHA-theme": "light",
            "reCAPTCHA-size": "normal",
            "reCAPTCHA-badge": "bottom-right",
            "reCAPTCHA-action": "A10_DEFAULT_LOGON"
        },
        "uuid": "0f74cb56-0874-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/portal/default-portal/logon"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/portal/{name}/logon

logon attributes

Replace Object

PUT

/axapi/v3/aam/authentication/portal/{name}/logon

logon attributes

```
PUT /axapi/v3/aam/authentication/portal/default-portal/logon
Payload:
{
    "logon": {
        "background": {
            "bgcolor-name": "black"
        }
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/portal/{name}/logon

logon attributes

```
DELETE /axapi/v3/aam/authentication/portal/default-portal/logon
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

logon attributes

action-url

Description Specify form action URL in default logon page (Default: /logon.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

background

Description: background is a **JSON Block**. Please see below for *background*

Type: Object

captcha-type

Description 'reCAPTCHAv2-checkbox': Google reCAPTCHAv2 Checkbox; 'reCAPTCHAv2-invisible': Google reCAPTCHAv2 Invisible; 'reCAPTCHAv3': Google reCAPTCHAv3;

Type: string

Supported Values: reCAPTCHAv2-checkbox, reCAPTCHAv2-invisible, reCAPTCHAv3

enable-CAPTCHA

Description Enable CAPTCHA in deafult logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-passcode

Description Enable passcode field in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

fail-msg-cfg

Description: fail-msg-cfg is a **JSON Block**. Please see below for *fail-msg-cfg*

Type: Object

passcode-cfg

Description: passcode-cfg is a **JSON Block**. Please see below for *passcode-cfg*

Type: Object

passcode-var

Description Specify passcode variable name in default logon page (Default: passcode)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

password-cfg

Description: password-cfg is a **JSON Block**. Please see below for *password-cfg*

Type: Object

password-var

Description Specify password variable name in default logon page (Default: pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

reCAPTCHA-cfg

Description: reCAPTCHA-cfg is a **JSON Block**. Please see below for *reCAPTCHA-cfg*

Type: Object

site-key-string

Description Site key string

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

submit-text

Description Specify submit button text in default logon page (Default: Log In)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username-cfg

Description: username-cfg is a **JSON Block**. Please see below for *username-cfg*

Type: Object

username-var

Description Specify username variable name in default logon page (Default: user)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

passcode-cfg

Specification	Value
Type	*object*

passcode

Description Configure passcode text in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

passcode-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

passcode-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: passcode-color-name and passcode-color-value are mutually exclusive

passcode-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: passcode-color-value and passcode-color-name are mutually exclusive

passcode-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: passcode-face and passcode-font-custom are mutually exclusive

passcode-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

passcode-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: passcode-font-custom and passcode-face are mutually exclusive

passcode-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

passcode-text

Description Specify passcode text (Default: Passcode)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

reCAPTCHA-cfg

Specification	Value
Type	*object*

reCAPTCHA-action

Description Specify reCAPTCHA action (Specify action string, only accept alphanumeric, underscore, and slash (Default: A10_DEFAULT_LOGON))

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: A10_DEFAULT_LOGON

reCAPTCHA-badge

Description 'bottom-left': bottom left corner; 'bottom-right': bottom right corner;

Type: string

Supported Values: bottom-left, bottom-right

Default: bottom-right

reCAPTCHA-size

Description 'normal': normal size; 'compact': compact size;

Type: string

Supported Values: normal, compact

Default: normal

reCAPTCHA-theme

Description 'light': light theme; 'dark': dark theme;

Type: string

Supported Values: light, dark

Default: light

background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

fail-msg-cfg

Specification	Value
Type	*object*

authz-fail-msg

Description Configure authorization failure message in default logon page, its text attributes follow fail-msg's (Specify authorization failure message (Default: Authorization failed. Please contact your system administrator.))

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

fail-color

Description Specify font color (Default: red)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: red

Mutual Exclusion: fail-color-name and fail-color-value are mutually exclusive

fail-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: fail-color-value and fail-color-name are mutually exclusive

fail-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: fail-face and fail-font-custom are mutually exclusive

fail-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fail-font-custom and fail-face are mutually exclusive

fail-msg

Description Configure login failure message in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fail-size

Description Specify font size (Default: 5)

Type: number

Range: 1-7

Default: 5

fail-text

Description Specify login failure message (Default: Invalid username or password. Please try again.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

password-cfg

Specification	Value
Type	*object*

pass-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

pass-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: pass-color-name and pass-color-value are mutually exclusive

pass-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: pass-color-value and pass-color-name are mutually exclusive

pass-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: pass-face and pass-font-custom are mutually exclusive

pass-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

pass-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: pass-font-custom and pass-face are mutually exclusive

pass-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

pass-text

Description Specify password text (Default: Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

password

Description Configure password text in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

username-cfg

Specification	Value
Type	*object*

user-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: user-color-name and user-color-value are mutually exclusive

user-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: user-color-value and user-color-name are mutually exclusive

user-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: user-face and user-font-custom are mutually exclusive

user-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: user-font-custom and user-face are mutually exclusive

user-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

user-text

Description Specify username text (Default: User Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username

Description Configure username text in default logon page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.1.44 aam authentication portal logon-fail

Logon fail page configuration

logon-fail Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	logon-fail
Element URI	/axapi/v3/aam/authentication/portal/{name}/logon-fail
Element Attributes	logon-fail_attributes
Partition Visibility	shared
Schema	`logon-fail schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/portal/{name}/logon-fail

logon-fail attributes

```
POST /axapi/v3/aam/authentication/portal/default-portal/logon-fail
Payload:
{
    "logon-fail": {
        "background": {
            "bgfile": "a"
        }
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/portal/{name}/logon-fail

logon-fail attributes

```
GET /axapi/v3/aam/authentication/portal/default-portal/logon-fail
Reponse:
{
    "logon-fail": {
        "background": {
            "bgcolor-name": "aqua"
        },
        "title-cfg": {
            "title": 0
        },
        "fail-msg-cfg": {
            "fail-msg": 0
        },
        "uuid": "e01351c4-0874-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/portal/default-portal/logon-fail"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/portal/{name}/logon-fail

logon-fail attributes

Replace Object

PUT

/axapi/v3/aam/authentication/portal/{name}/logon-fail

logon-fail attributes

```
PUT /axapi/v3/aam/authentication/portal/default-portal/logon-fail
Payload:
{
```

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```
    "logon-fail": {
        "background": {
            "bgcolor-name": "black"
        }
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/portal/{name}/logon-fail

logon-fail attributes

```
DELETE /axapi/v3/aam/authentication/portal/default-portal/logon-fail
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

logon-fail attributes

background

Description: background is a **JSON Block**. Please see below for *background*

Type: Object

fail-msg-cfg

Description: fail-msg-cfg is a **JSON Block**. Please see below for *fail-msg-cfg*

Type: Object

title-cfg

Description: title-cfg is a **JSON Block**. Please see below for *title-cfg*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fail-msg-cfg

Specification	Value
Type	*object*

fail-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: fail-color-name and fail-color-value are mutually exclusive

fail-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: fail-color-value and fail-color-name are mutually exclusive

fail-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: fail-face and fail-font-custom are mutually exclusive

fail-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

fail-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fail-font-custom and fail-face are mutually exclusive

fail-msg

Description Configure logon failure message in default logon fail page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fail-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

fail-text

Description Specify logon failure message (Default: Login Failed!!)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

title-cfg

Specification	Value
Type	*object*

title

Description Configure title in default logon fail page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

title-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: title-color-name and title-color-value are mutually exclusive

title-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: title-color-value and title-color-name are mutually exclusive

title-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: title-face and title-font-custom are mutually exclusive

title-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

title-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: title-font-custom and title-face are mutually exclusive

title-size

Description Specify font size (Default: 5)

Type: number

Range: 1-7

Default: 5

title-text

Description Specify title (Default: Try Too Many Times)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

2.1.45 aam authentication portal notify-change-password

Change password notification page configuration

notify-change-password Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	notify-change-password
Element URI	/axapi/v3/aam/authentication/portal/{name}/notify-change-password
Element Attributes	notify-change-password_attributes
Partition Visibility	shared
Schema	`notify-change-password schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/portal/{name}/notify-change-password

notify-change-password attributes

```
POST /axapi/v3/aam/authentication/portal/default-portal/notify-change-password
Payload:
{
    "notify-change-password": {
        "background": {
            "bgfile": "a"
        }
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/portal/{name}/notify-change-password

notify-change-password attributes

```
GET /axapi/v3/aam/authentication/portal/default-portal/notify-change-password
Reponse:
```

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```
{
    "notify-change-password": {
        "background": {
            "bgcolor-name": "aqua"
        },
        "username-cfg": {
            "username": 0
        },
        "old-pwd-cfg": {
            "old-password": 0
        },
        "new-pwd-cfg": {
            "new-password": 0
        },
        "cfm-pwd-cfg": {
            "confirm-password": 0
        },
        "uuid": "411ad212-0875-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/portal/default-portal/notify-change-
↪password"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/portal/{name}/notify-change-password

notify-change-password attributes

Replace Object

PUT

/axapi/v3/aam/authentication/portal/{name}/notify-change-password

notify-change-password attributes

```
PUT /axapi/v3/aam/authentication/portal/default-portal/notify-change-password
Payload:
{
    "notify-change-password": {
        "background": {
            "bgcolor-name": "black"
        }
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/portal/{name}/notify-change-password

notify-change-password attributes

```
DELETE /axapi/v3/aam/authentication/portal/default-portal/notify-change-password
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

notify-change-password attributes

background

Description: background is a **JSON Block**. Please see below for *background*

Type: Object

cfm-pwd-cfg

Description: cfm-pwd-cfg is a **JSON Block**. Please see below for *cfm-pwd-cfg*

Type: Object

change-text

Description Specify change button text in default change password notification page (Default: Change)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

change-url

Description Specify change password action URL in default change password notification page (Default: /notify_change.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

confirm-password-var

Description Specify confirm password variable name in default change password notification page (Default: cp_cfm_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

continue-text

Description Specify continue button text in default change password notification page (Default: Continue)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

continue-url

Description Specify continue action URL in default change password notification page (Default: /continue.fo)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-password-var

Description Specify new password variable name in default change password notification page (Default: cp_new_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

new-pwd-cfg

Description: new-pwd-cfg is a **JSON Block**. Please see below for *new-pwd-cfg*

Type: Object

old-password-var

Description Specify old password variable name in default change password notification page (Default: cp_old_pwd)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

old-pwd-cfg

Description: old-pwd-cfg is a **JSON Block**. Please see below for *old-pwd-cfg*

Type: Object

username-cfg

Description: username-cfg is a **JSON Block**. Please see below for *username-cfg*

Type: Object

username-var

Description Specify username variable name in default change password notification page (Default: cp_usr)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

new-pwd-cfg

Specification	Value
Type	*object*

new-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: new-color-name and new-color-value are mutually exclusive

new-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: new-color-value and new-color-name are mutually exclusive

new-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: new-face and new-font-custom are mutually exclusive

new-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

new-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: new-font-custom and new-face are mutually exclusive

new-password

Description Configure new password text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

new-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

new-text

Description Specify new password text (Default: New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

old-pwd-cfg

Specification	Value
Type	*object*

old-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: old-color-name and old-color-value are mutually exclusive

old-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: old-color-value and old-color-name are mutually exclusive

old-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: old-face and old-font-custom are mutually exclusive

old-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

old-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: old-font-custom and old-face are mutually exclusive

old-password

Description Configure old password text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

old-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

old-text

Description Specify old password text (Default: Old Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

background

Specification	Value
Type	*object*

bgcolor-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: white

Mutual Exclusion: bgcolor-name, bgfile, and bgcolor-value are mutually exclusive

bgcolor-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: bgcolor-value, bgfile, and bgcolor-name are mutually exclusive

bgfile

Description Specify background image filename

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: bgfile, bgcolor-name, and bgcolor-value are mutually exclusive

bgstyle

Description 'tile': Tile; 'stretch': Stretch; 'fit': Fit;

Type: string

Supported Values: tile, stretch, fit

Default: tile

cfm-pwd-cfg

Specification	Value
Type	*object*

cfm-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: cfm-color-name and cfm-color-value are mutually exclusive

cfm-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: cfm-color-value and cfm-color-name are mutually exclusive

cfm-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: cfm-face and cfm-font-custom are mutually exclusive

cfm-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

cfm-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: cfm-font-custom and cfm-face are mutually exclusive

cfm-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

cfm-text

Description Specify confirm password text (Default: Confirm New Password)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

confirm-password

Description Configure confirm password text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

username-cfg

Specification	Value
Type	*object*

user-color

Description Specify font color (Default: black)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-color-name

Description 'aqua': aqua; 'black': black; 'blue': blue; 'fuchsia': fuchsia; 'gray': gray; 'green': green; 'lime': lime; 'maroon': maroon; 'navy': navy; 'olive': olive; 'orange': orange; 'purple': purple; 'red': red; 'silver': silver; 'teal': teal; 'white': white; 'yellow': yellow;

Type: string

Supported Values: aqua, black, blue, fuchsia, gray, green, lime, maroon, navy, olive, orange, purple, red, silver, teal, white, yellow

Default: black

Mutual Exclusion: user-color-name and user-color-value are mutually exclusive

user-color-value

Description Specify 6-digit HEX color value

Type: string

Maximum Length: 6 characters

Maximum Length: 6 characters

Mutual Exclusion: user-color-value and user-color-name are mutually exclusive

user-face

Description 'Arial': Arial; 'Courier_New': Courier New; 'Georgia': Georgia; 'Times_New_Roman': Times New Roman; 'Verdana': Verdana;

Type: string

Supported Values: Arial, Courier_New, Georgia, Times_New_Roman, Verdana

Default: Arial

Mutual Exclusion: user-face and user-font-custom are mutually exclusive

user-font

Description Sepcify font (Default: Arial)

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

user-font-custom

Description Specify custom font

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: user-font-custom and user-face are mutually exclusive

user-size

Description Specify font size (Default: 3)

Type: number

Range: 1-7

Default: 3

user-text

Description Specify username text (Default: Username)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

username

Description Configure username text in default change password notification page

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.1.46 aam authentication relay

Authentication relay configuration

relay Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	relay
Element URI	/axapi/v3/aam/authentication/relay
Element Attributes	relay_attributes
Partition Visibility	shared
Schema	`relay schema`

Operations Allowed:

Get Object

GET

/axapi/v3/aam/authentication/relay

relay_attributes

relay attributes

form-based

Description: form-based is a **JSON Block**. Please see below for *form-based*

Type: Object

Reference Object: */axapi/v3/aam/authentication/relay/form-based*

http-basic

Description: http-basic is a **JSON Block**. Please see below for *http-basic*

Type: Object

Reference Object: */axapi/v3/aam/authentication/relay/http-basic*

kerberos

Description: kerberos is a **JSON Block**. Please see below for *kerberos*

Type: Object

Reference Object: */axapi/v3/aam/authentication/relay/kerberos*

oauth-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/oauth/{name}*

saml-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/saml/{name}*

ws-federation-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/ws-federation/{name}*

form-based

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/form-based/instance/{name}*

form-based_instance-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify form-based authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-form-inst-tmpl*

request-uri-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri/{match-type}+{uri}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

form-based_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'invalid_srv_rsp': Invalid Server Response; 'post_fail': POST Failed; 'invalid_cred': Invalid Credential; 'bad_req': Bad Request; 'not_fnd': Not Found; 'error': Internal Server Error; 'other_error': Other Error;

Type: string

Supported Values: all, request, invalid_srv_rsp, post_fail, invalid_cred, bad_req, not_fnd, error, other_error

form-based_instance-list_request-uri-list

Specification	Value
Type	*list*
Block object keys	

action-uri

Description Specify the action-URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

cookie

Description: cookie is a **JSON Block**. Please see below for *form-based_instance-list_request-uri-list_cookie*

Type: Object

domain-variable

Description Specify domain variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

max-packet-collect-size

Description Specify the max packet collection size in bytes, default is 1MB

Type: number

Range: 1024-2097152

Default: 1048576

other-variables

Description Specify other variables (n1=v1&n2=v2) in form relay

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

password-variable

Description Specify password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uri

Description Specify request URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-variable

Description Specify username variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

form-based_instance-list_request-uri-list_cookie

Specification	Value
Type	*object*

cookie-value

Description: cookie-value is a **JSON Block**. Please see below for *form-based_instance-list_request-uri-list_cookie_cookie-value*

Type: Object

form-based_instance-list_request-uri-list_cookie_cookie-value

Specification	Value
Type	*object*

cookie-value

Description Specify cookie in POST packet

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

ws-federation-list

Specification	Value
Type	*list*
Block object keys	

application-server

Description 'sharepoint': Microsoft SharePoint; 'exchange-owa': Microsoft Exchange OWA;

Type: string

Supported Values: sharepoint, exchange-owa

authentication-uri

Description Specify WS-Federation relay URI, default is /_trust/

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

name

Description Specify WS-Federation authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-ws-fed-tmpl*

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ws-federation-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'success': Success; 'failure': Failure;

Type: string

Supported Values: all, request, success, failure

oauth-list

Specification	Value
Type	*list*
Block object keys	

all

Description All URI can be relay

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: all and match-type are mutually exclusive

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

Mutual Exclusion: match-type and all are mutually exclusive

match-uri

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

name

Description Specify oauth authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

relay-type

Description 'access-token': Relay access token to backend; 'id-token': Relay JWT to backend;

Type: string

Supported Values: access-token, id-token

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

oauth-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'relay-req': some help string; 'relay-succ': some help string; 'relay-fail': some help string;

Type: string

Supported Values: all, relay-req, relay-succ, relay-fail

saml-list

Specification	Value
Type	*list*
Block object keys	

idp-auth-uri

Description Specify the URI for IDP to handle SAML authentication request

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

match-uri

Description Match URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

method

Description 'get-from-backend': Get RelayState parameter from backend server; 'request-uri': Use the (URL encoded) current request-uri as the RelayState;

Type: string

Supported Values: get-from-backend, request-uri

Mutual Exclusion: method and value are mutually exclusive

name

Description Specify SAML authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

relay-acs-uri

Description Specify the backend server assertion consuming service URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

retry-number

Description Specify how many continuous fail for SAML relay will trigger. Default will not retry.

Type: number

Range: 0-10

Default: 0

sampling-enable

Type: List

server-cookie-name

Description Specify the cookie name that used by backend server for authenticated users

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Use the fixed string as the RelayState

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: value and method are mutually exclusive

saml-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'success': Success; 'failure': Failure; 'error': Error;

Type: string

Supported Values: all, request, success, failure, error

kerberos

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/kerberos/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

kerberos_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-send': Total Request Send; 'response-get': Total Response Get; 'timeout-error': Total Timeout; 'other-error': Total Other Error; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response; 'job-start-error': Total Job Start Error; 'polling-control-error': Total Polling Control Error;

Type: string

Supported Values: all, request-send, response-get, timeout-error, other-error, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error

kerberos_instance-list

Specification	Value
Type	*list*
Block object keys	

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

kerberos-account

Description Specify the kerberos account name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

kerberos-kdc

Description Specify the kerberos kdc ip or host name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: kerberos-kdc and kerberos-kdc-service-group are mutually exclusive

kerberos-kdc-service-group

Description Specify an authentication service group as multiple KDCs

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: kerberos-kdc-service-group and kerberos-kdc are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

kerberos-realm

Description Specify the kerberos realm

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

name

Description Specify Kerberos authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

password

Description Specify password of Kerberos password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port

Description Specify The KDC port, default is 88

Type: number

Range: 1-65535

Default: 88

sampling-enable

Type: List

secret-string

Description The kerberos client password

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

timeout

Description Specify timeout for kerberos transport, default is 10 seconds (The timeout, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

kerberos_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-send': Request Send; 'response-receive': Response Receive; 'current-requests-of-user': Current Pending Requests of User; 'tickets': Tickets;

Type: string

Supported Values: all, request-send, response-receive, current-requests-of-user, tickets

http-basic

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/http-basic/instance/{name}*

http-basic_instance-list

Specification	Value
Type	*list*
Block object keys	

domain

Description Specify user domain, default is null

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-format

Description 'user-principal-name': Append domain with User Principal Name format. (e.g. user@domain); 'down-level-logon-name': Append domain with Down-Level Logon Name format. (e.g. domainuser);

Type: string

Supported Values: user-principal-name, down-level-logon-name

Default: down-level-logon-name

name

Description Specify HTTP basic authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-hbase-inst-tmpl*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

http-basic_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'success': Success; 'no-creds': No Credential; 'bad-req': Bad Request; 'unauth': Unauthorized; 'forbidden': Forbidden; 'not-found': Not Found; 'server-error': Internal Server Error; 'unavailable': Service Unavailable;

Type: string

Supported Values: all, success, no-creds, bad-req, unauth, forbidden, not-found, server-error, unavailable

2.1.47 aam authentication relay form-based

Form-based Authentication Relay

form-based Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	form-based
Element URI	/axapi/v3/aam/authentication/relay/form-based
Element Attributes	form-based_attributes
Partition Visibility	shared
Schema	`form-based schema`

Operations Allowed:

Get Object

GET

/axapi/v3/aam/authentication/relay/form-based

form-based_attributes

form-based attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/form-based/instance/{name}*

instance-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify form-based authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-form-inst-tmpl*

request-uri-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri/{match-type}+{uri}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'invalid_srv_rsp': Invalid Server Response; 'post_fail': POST Failed; 'invalid_cred': Invalid Credential; 'bad_req': Bad Request; 'not_fnd': Not Found; 'error': Internal Server Error; 'other_error': Other Error;

Type: string

Supported Values: all, request, invalid_srv_rsp, post_fail, invalid_cred, bad_req, not_fnd, error, other_error

instance-list_request-uri-list

Specification	Value
Type	*list*
Block object keys	

action-uri

Description Specify the action-URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

cookie

Description: cookie is a **JSON Block**. Please see below for *instance-list_request-uri-list_cookie*

Type: Object

domain-variable

Description Specify domain variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

max-packet-collect-size

Description Specify the max packet collection size in bytes, default is 1MB

Type: number

Range: 1024-2097152

Default: 1048576

other-variables

Description Specify other variables (n1=v1&n2=v2) in form relay

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

password-variable

Description Specify password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uri

Description Specify request URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-variable

Description Specify username variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

instance-list_request-uri-list_cookie

Specification	Value
Type	*object*

cookie-value

Description: cookie-value is a **JSON Block**. Please see below for *instance-list_request-uri-list_cookie_cookie-value*

Type: Object

instance-list_request-uri-list_cookie_cookie-value

Specification	Value
Type	*object*

cookie-value

Description Specify cookie in POST packet

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

2.1.48 aam authentication relay form-based instance

Form-based Authentication Relay

instance Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/relay/form-based/instance
Element Name	instance
Element URI	/axapi/v3/aam/authentication/relay/form-based/instance/{name}
Element Attributes	instance_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/relay/form-based/instance/{name}/stats
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/form-based/instance

instance attributes

```
POST /axapi/v3/aam/authentication/relay/form-based/instance/
Payload:
{
    "instance": {
        "name": "a",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/relay/form-based/instance

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/form-based/instance/{name}

instance attributes

```
GET /axapi/v3/aam/authentication/relay/form-based/instance/a
Reponse:
{
    "instance": {
        "name": "a",
        "uuid": "22ed40b2-0876-11f0-847f-51c757813e60",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/aam/authentication/relay/form-based/instance/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/relay/form-based/instance

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/form-based/instance/{name}

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/form-based/instance/{name}

instance attributes

```
PUT /axapi/v3/aam/authentication/relay/form-based/instance/a
Payload:
{
    "instance": {
        "name": "a",
        "sampling-enable": [
            {
                "counters1": "request"
```

(continues on next page)

(continued from previous page)

```
            }
        ]
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/relay/form-based/instance

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/form-based/instance/{name}

instance attributes

```
DELETE /axapi/v3/aam/authentication/relay/form-based/instance/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

name

Description Specify form-based authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-form-inst-tmpl*

request-uri-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri/{match-type}+{uri}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'invalid_srv_rsp': Invalid Server Response; 'post_fail': POST Failed; 'invalid_cred': Invalid Credential; 'bad_req': Bad Request; 'not_fnd': Not Found; 'error': Internal Server Error; 'other_error': Other Error;

Type: string

Supported Values: all, request, invalid_srv_rsp, post_fail, invalid_cred, bad_req, not_fnd, error, other_error

request-uri-list

Specification	Value
Type	*list*
Block object keys	

action-uri

Description Specify the action-URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

cookie

Description: cookie is a **JSON Block**. Please see below for *request-uri-list_cookie*

Type: Object

domain-variable

Description Specify domain variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

max-packet-collect-size

Description Specify the max packet collection size in bytes, default is 1MB

Type: number

Range: 1024-2097152

Default: 1048576

other-variables

Description Specify other variables (n1=v1&n2=v2) in form relay

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

password-variable

Description Specify password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uri

Description Specify request URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-variable

Description Specify username variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

request-uri-list_cookie

Specification	Value
Type	*object*

cookie-value

Description: cookie-value is a **JSON Block**. Please see below for *request-uri-list_cookie_cookie-value*

Type: Object

request-uri-list_cookie_cookie-value

Specification	Value
Type	*object*

cookie-value

Description Specify cookie in POST packet

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

2.1.49 aam authentication relay form-based instance request-uri

URI of authentication web page

request-uri Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*match-type, uri*
Collection Name	*request-uri-list*
Collection URI	/axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri
Element Name	request-uri
Element URI	/axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri/{match-type}+{uri}
Element Attributes	request-uri_attributes
Partition Visibility	shared
Schema	`request-uri schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri

request-uri attributes

Create List

POST

/axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri

request-uri attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri/{match-type}+{uri}

request-uri attributes

Get List

GET

/axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri

request-uri-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri/{match-type}+{uri}

request-uri attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri/{match-type}+{uri}

request-uri attributes

Replace List

PUT

/axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri

request-uri-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/form-based/instance/{name}/request-uri/{match-type}+{uri}

request-uri attributes

request-uri-list

request-uri-list is **JSON List** of *request-uri attributes*

request-uri-list : [

{ *request-uri attributes* },

{ *request-uri attributes* },

...

]

request-uri attributes

action-uri

Description Specify the action-URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

cookie

Description: cookie is a **JSON Block**. Please see below for *cookie*

Type: Object

domain-variable

Description Specify domain variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

max-packet-collect-size

Description Specify the max packet collection size in bytes, default is 1MB

Type: number

Range: 1024-2097152

Default: 1048576

other-variables

Description Specify other variables (n1=v1&n2=v2) in form relay

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

password-variable

Description Specify password variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uri

Description Specify request URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-variable

Description Specify username variable name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cookie

Specification	Value
Type	*object*

cookie-value

Description: cookie-value is a **JSON Block**. Please see below for *cookie_cookie-value*

Type: Object

cookie_cookie-value

Specification	Value
Type	*object*

cookie-value

Description Specify cookie in POST packet

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

2.1.50 aam authentication relay form-based instance stats

Statistics for the object instance

instance Specification

Parameter	Value
Type	*Collection*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/relay/form-based/instance/{name}
Element Name	instance
Element URI	/axapi/v3/aam/authentication/relay/form-based/instance/{name}/stats
Element Attributes	instance_attributes
Partition Visibility	None
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/form-based/instance/{name}

instance attributes

Create List

POST

/axapi/v3/aam/authentication/relay/form-based/instance/{name}

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/form-based/instance/{name}/stats

instance attributes

Get List

GET

/axapi/v3/aam/authentication/relay/form-based/instance/{name}

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/form-based/instance/{name}/stats

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/form-based/instance/{name}/stats

instance attributes

Replace List

PUT

/axapi/v3/aam/authentication/relay/form-based/instance/{name}

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/form-based/instance/{name}/stats

instance attributes

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

name

Description Specify form-based authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

bad_req

Description Bad Request

Type: number

Format: counter

error

Description Internal Server Error

Type: number

Format: counter

invalid_cred

Description Invalid Credential

Type: number

Format: counter

invalid_srv_rsp

Description Invalid Server Response

Type: number

Format: counter

not_fnd

Description Not Found

Type: number

Format: counter

other_error

Description Other Error

Type: number

Format: counter

post_fail

Description POST Failed

Type: number

Format: counter

request

Description Request

Type: number

Format: counter

2.1.51 aam authentication relay http-basic

HTTP Basic Authentication Relay

http-basic Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	http-basic
Element URI	/axapi/v3/aam/authentication/relay/http-basic
Element Attributes	http-basic_attributes
Partition Visibility	shared
Schema	`http-basic schema`

Operations Allowed:

Get Object

GET

/axapi/v3/aam/authentication/relay/http-basic

http-basic_attributes

http-basic attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/http-basic/instance/{name}*

instance-list

Specification	Value
Type	*list*
Block object keys	

domain

Description Specify user domain, default is null

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-format

Description 'user-principal-name': Append domain with User Principal Name format. (e.g. user@domain); 'down-level-logon-name': Append domain with Down-Level Logon Name format. (e.g. domainuser);

Type: string

Supported Values: user-principal-name, down-level-logon-name

Default: down-level-logon-name

name

Description Specify HTTP basic authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-hbase-inst-tmpl*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'success': Success; 'no-creds': No Credential; 'bad-req': Bad Request; 'unauth': Unauthorized; 'forbidden': Forbidden; 'not-found': Not Found; 'server-error': Internal Server Error; 'unavailable': Service Unavailable;

Type: string

Supported Values: all, success, no-creds, bad-req, unauth, forbidden, not-found, server-error, unavailable

2.1.52 aam authentication relay http-basic instance

HTTP Basic Authentication Relay instance

instance Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/relay/http-basic/instance
Element Name	instance
Element URI	/axapi/v3/aam/authentication/relay/http-basic/instance/{name}
Element Attributes	instance_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/relay/http-basic/instance/{name}/stats
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/http-basic/instance

instance attributes

```
POST /axapi/v3/aam/authentication/relay/http-basic/instance/
Payload:
{
    "instance": {
        "name": "a",
        "domain": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/relay/http-basic/instance

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/http-basic/instance/{name}

instance attributes

```
GET /axapi/v3/aam/authentication/relay/http-basic/instance/a
Reponse:
```

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```
{
    "instance": {
        "name": "a",
        "domain": "a",
        "domain-format": "down-level-logon-name",
        "uuid": "a0a03398-0876-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/relay/http-basic/instance/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/relay/http-basic/instance

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/http-basic/instance/{name}

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/http-basic/instance/{name}

instance attributes

```
PUT /axapi/v3/aam/authentication/relay/http-basic/instance/a
Payload:
{
    "instance": {
        "name": "a",
        "domain": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/relay/http-basic/instance

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/http-basic/instance/{name}

instance attributes

```
DELETE /axapi/v3/aam/authentication/relay/http-basic/instance/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

domain

Description Specify user domain, default is null

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-format

Description 'user-principal-name': Append domain with User Principal Name format. (e.g. user@domain); 'down-level-logon-name': Append domain with Down-Level Logon Name format. (e.g. domainuser);

Type: string

Supported Values: user-principal-name, down-level-logon-name

Default: down-level-logon-name

name

Description Specify HTTP basic authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-hbase-inst-tmpl*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'success': Success; 'no-creds': No Credential; 'bad-req': Bad Request; 'unauth': Unauthorized; 'forbidden': Forbidden; 'not-found': Not Found; 'server-error': Internal Server Error; 'unavailable': Service Unavailable;

Type: string

Supported Values: all, success, no-creds, bad-req, unauth, forbidden, not-found, server-error, unavailable

2.1.53 aam authentication relay http-basic instance stats

Statistics for the object instance

instance Specification

Parameter	Value
Type	*Collection*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/relay/http-basic/instance/{name}
Element Name	instance
Element URI	/axapi/v3/aam/authentication/relay/http-basic/instance/{name}/stats
Element Attributes	instance_attributes
Partition Visibility	None
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/http-basic/instance/{name}

instance attributes

Create List

POST

/axapi/v3/aam/authentication/relay/http-basic/instance/{name}

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/http-basic/instance/{name}/stats

instance attributes

Get List

GET

/axapi/v3/aam/authentication/relay/http-basic/instance/{name}

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/http-basic/instance/{name}/stats

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/http-basic/instance/{name}/stats

instance attributes

Replace List

PUT

/axapi/v3/aam/authentication/relay/http-basic/instance/{name}

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/http-basic/instance/{name}/stats

instance attributes

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

name

Description Specify HTTP basic authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

bad-req

Description Bad Request

Type: number

Format: counter

forbidden

Description Forbidden

Type: number

Format: counter

no-creds

Description No Credential

Type: number

Format: counter

not-found

Description Not Found

Type: number

Format: counter

server-error

Description Internal Server Error

Type: number

Format: counter

success

Description Success

Type: number

Format: counter

unauth

Description Unauthorized

Type: number

Format: counter

unavailable

Description Service Unavailable

Type: number

Format: counter

2.1.54 aam authentication relay kerberos

Kerberos Authentication Relay

kerberos Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	kerberos
Element URI	/axapi/v3/aam/authentication/relay/kerberos
Element Attributes	kerberos_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/relay/kerberos/stats
Schema	`kerberos schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/kerberos

kerberos attributes

```
POST /axapi/v3/aam/authentication/relay/kerberos
Payload:
{
    "kerberos": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/relay/kerberos

kerberos attributes

```
GET /axapi/v3/aam/authentication/relay/kerberos
Reponse:
{
    "kerberos": {
        "uuid": "5605f91e-086a-11f0-b2f1-51c757813e60",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/aam/authentication/relay/kerberos"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/relay/kerberos

kerberos attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/kerberos

kerberos attributes

```
PUT /axapi/v3/aam/authentication/relay/kerberos
Payload:
{
    "kerberos": {
        "sampling-enable": [
```

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```
            {
                "counters1": "request-send"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/kerberos

kerberos attributes

```
DELETE /axapi/v3/aam/authentication/relay/kerberos
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

kerberos attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/kerberos/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-send': Total Request Send; 'response-get': Total Response Get; 'timeout-error': Total Timeout; 'other-error': Total Other Error; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response; 'job-start-error': Total Job Start Error; 'polling-control-error': Total Polling Control Error;

Type: string

Supported Values: all, request-send, response-get, timeout-error, other-error, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error

instance-list

Specification	Value
Type	*list*
Block object keys	

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

kerberos-account

Description Specify the kerberos account name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

kerberos-kdc

Description Specify the kerberos kdc ip or host name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: kerberos-kdc and kerberos-kdc-service-group are mutually exclusive

kerberos-kdc-service-group

Description Specify an authentication service group as multiple KDCs

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: kerberos-kdc-service-group and kerberos-kdc are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

kerberos-realm

Description Specify the kerberos realm

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

name

Description Specify Kerberos authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

password

Description Specify password of Kerberos password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port

Description Specify The KDC port, default is 88

Type: number

Range: 1-65535

Default: 88

sampling-enable

Type: List

secret-string

Description The kerberos client password

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

timeout

Description Specify timeout for kerberos transport, default is 10 seconds (The timeout, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-send': Request Send; 'response-receive': Response Receive; 'current-requests-of-user': Current Pending Requests of User; 'tickets': Tickets;

Type: string

Supported Values: all, request-send, response-receive, current-requests-of-user, tickets

2.1.55 aam authentication relay kerberos instance

Kerberos Authentication Relay

instance Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/relay/kerberos/instance
Element Name	instance
Element URI	/axapi/v3/aam/authentication/relay/kerberos/instance/{name}
Element Attributes	instance_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/relay/kerberos/instance/{name}/stats
Operational Data URI	/axapi/v3/aam/authentication/relay/kerberos/instance/{name}/oper
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/kerberos/instance

instance attributes

```
POST /axapi/v3/aam/authentication/relay/kerberos/instance/
Payload:
{
    "instance": {
        "name": "a",
        "kerberos-realm": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/relay/kerberos/instance

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}

instance attributes

```
GET /axapi/v3/aam/authentication/relay/kerberos/instance/a
Reponse:
{
    "instance": {
        "name": "a",
        "kerberos-realm": "a",
        "password": 0,
        "port": 88,
        "timeout": 10,
        "uuid": "e8395f40-0876-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/relay/kerberos/instance/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/relay/kerberos/instance

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}

instance attributes

```
PUT /axapi/v3/aam/authentication/relay/kerberos/instance/a
Payload:
{
    "instance": {
        "name": "a",
        "kerberos-realm": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/relay/kerberos/instance

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}

instance attributes

```
DELETE /axapi/v3/aam/authentication/relay/kerberos/instance/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

kerberos-account

Description Specify the kerberos account name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

kerberos-kdc

Description Specify the kerberos kdc ip or host name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: kerberos-kdc and kerberos-kdc-service-group are mutually exclusive

kerberos-kdc-service-group

Description Specify an authentication service group as multiple KDCs

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: kerberos-kdc-service-group and kerberos-kdc are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

kerberos-realm

Description Specify the kerberos realm

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

name

Description Specify Kerberos authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

password

Description Specify password of Kerberos password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port

Description Specify The KDC port, default is 88

Type: number

Range: 1-65535

Default: 88

sampling-enable

Type: List

secret-string

Description The kerberos client password

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

timeout

Description Specify timeout for kerberos transport, default is 10 seconds (The timeout, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-send': Request Send; 'response-receive': Response Receive; 'current-requests-of-user': Current Pending Requests of User; 'tickets': Tickets;

Type: string

Supported Values: all, request-send, response-receive, current-requests-of-user, tickets

2.1.56 aam authentication relay kerberos instance oper

Operational Status for the object instance

instance Specification

Parameter	Value
Type	*Collection*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/relay/kerberos/instance/{name}
Element Name	instance
Element URI	/axapi/v3/aam/authentication/relay/kerberos/instance/{name}/oper
Element Attributes	instance_attributes
Partition Visibility	None
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}

instance attributes

Create List

POST

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}/oper

instance attributes

Get List

GET

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}/oper

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}/oper

instance attributes

Replace List

PUT

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}/oper

instance attributes

instance-list

instance-list is **JSON List** of *instance attributes*

```
instance-list : [
        { instance attributes },
        { instance attributes },
        ...
    ]
```

instance attributes

name

Description Specify Kerberos authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

default-principal

Description

Type: string

item-list

Type: List

ticket-cache

Description

Type: string

oper_item-list

Specification	Value
Type	*list*
Block object keys	

client-principal

Description

Type: string

end-time

Description

Type: string

flags

Description

Type: string

renew-time

Description

Type: string

service-principal

Description

Type: string

start-time

Description

Type: string

2.1.57 aam authentication relay kerberos instance stats

Statistics for the object instance

instance Specification

Parameter	Value
Type	*Collection*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/relay/kerberos/instance/{name}
Element Name	instance
Element URI	/axapi/v3/aam/authentication/relay/kerberos/instance/{name}/stats
Element Attributes	instance_attributes
Partition Visibility	None
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}

instance attributes

Create List

POST

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}/stats

instance attributes

Get List

GET

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}/stats

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}/stats

instance attributes

Replace List

PUT

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/kerberos/instance/{name}/stats

instance attributes

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

name

Description Specify Kerberos authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

current-requests-of-user

Description Current Pending Requests of User

Type: number

Format: counter

request-send

Description Request Send

Type: number

Format: counter

response-receive

Description Response Receive

Type: number

Format: counter

tickets

Description Tickets

Type: number

Format: counter

2.1.58 aam authentication relay kerberos stats

Statistics for the object kerberos

kerberos Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	kerberos
Element URI	/axapi/v3/aam/authentication/relay/kerberos/stats
Element Attributes	kerberos_attributes
Partition Visibility	None
Schema	`kerberos schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/kerberos/stats

kerberos attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/kerberos/stats

kerberos attributes

Modify Object

POST

/axapi/v3/aam/authentication/relay/kerberos/stats

kerberos attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/kerberos/stats

kerberos attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/kerberos/stats

kerberos attributes

kerberos attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/relay/kerberos/instance/{name}*

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

job-start-error

Description Total Job Start Error

Type: number

Format: counter

other-error

Description Total Other Error

Type: number

Format: counter

polling-control-error

Description Total Polling Control Error

Type: number

Format: counter

request-dropped

Description Total Dropped Request

Type: number

Format: counter

request-normal

Description Total Normal Request

Type: number

Format: counter

request-send

Description Total Request Send

Type: number

Format: counter

response-error

Description Total Error Response

Type: number

Format: counter

response-failure

Description Total Failure Response

Type: number

Format: counter

response-get

Description Total Response Get

Type: number

Format: counter

response-other

Description Total Other Response

Type: number

Format: counter

response-success

Description Total Success Response

Type: number

Format: counter

response-timeout

Description Total Timeout Response

Type: number

Format: counter

timeout-error

Description Total Timeout

Type: number

Format: counter

instance-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify Kerberos authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *instance-list_stats*

Type: Object

instance-list_stats

Specification	Value
Type	*object*

current-requests-of-user

Description Current Pending Requests of User

Type: number

Format: counter

request-send

Description Request Send

Type: number

Format: counter

response-receive

Description Response Receive

Type: number

Format: counter

tickets

Description Tickets

Type: number

Format: counter

2.1.59 aam authentication relay oauth

Oauth 2.0 Authentication Relay

oauth Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*oauth-list*
Collection URI	/axapi/v3/aam/authentication/relay/oauth
Element Name	oauth
Element URI	/axapi/v3/aam/authentication/relay/oauth/{name}
Element Attributes	oauth_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/relay/oauth/{name}/stats
Schema	`oauth schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/oauth

oauth attributes

```
POST /axapi/v3/aam/authentication/relay/oauth/
Payload:
{
    "oauth": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/relay/oauth

oauth attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/oauth/{name}

oauth attributes

```
GET /axapi/v3/aam/authentication/relay/oauth/a
Reponse:
{
    "oauth": {
        "name": "a",
        "all": 0,
        "uuid": "18fd2a9e-0877-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authentication/relay/oauth/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/relay/oauth

oauth-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/oauth/{name}

oauth attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/oauth/{name}

oauth attributes

```
PUT /axapi/v3/aam/authentication/relay/oauth/a
Payload:
{
    "oauth": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/relay/oauth

oauth-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/oauth/{name}

oauth attributes

```
DELETE /axapi/v3/aam/authentication/relay/oauth/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

oauth-list

oauth-list is **JSON List** of *oauth attributes*

oauth-list : [

{ *oauth attributes* },

{ *oauth attributes* },

...

]

oauth attributes

all

Description All URI can be relay

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: all and match-type are mutually exclusive

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

Mutual Exclusion: match-type and all are mutually exclusive

match-uri

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

name

Description Specify oauth authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

relay-type

Description 'access-token': Relay access token to backend; 'id-token': Relay JWT to backend;

Type: string

Supported Values: access-token, id-token

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'relay-req': some help string; 'relay-succ': some help string; 'relay-fail': some help string;

Type: string

Supported Values: all, relay-req, relay-succ, relay-fail

2.1.60 aam authentication relay oauth stats

Statistics for the object oauth

oauth Specification

Parameter	Value
Type	*Collection*
Collection Name	*oauth-list*
Collection URI	/axapi/v3/aam/authentication/relay/oauth/{name}
Element Name	oauth
Element URI	/axapi/v3/aam/authentication/relay/oauth/{name}/stats
Element Attributes	oauth_attributes
Partition Visibility	None
Schema	`oauth schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/oauth/{name}

oauth attributes

Create List

POST

/axapi/v3/aam/authentication/relay/oauth/{name}

oauth attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/oauth/{name}/stats

oauth attributes

Get List

GET

/axapi/v3/aam/authentication/relay/oauth/{name}

oauth-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/oauth/{name}/stats

oauth attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/oauth/{name}/stats

oauth attributes

Replace List

PUT

/axapi/v3/aam/authentication/relay/oauth/{name}

oauth-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/oauth/{name}/stats

oauth attributes

oauth-list

oauth-list is **JSON List** of *oauth attributes*

```
oauth-list : [
        { oauth attributes },
        { oauth attributes },
        ...
    ]
```

oauth attributes

name

Description Specify oauth authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

relay-fail

Description some help string

Type: number

Format: counter

relay-req

Description some help string

Type: number

Format: counter

relay-succ

Description some help string

Type: number

Format: counter

2.1.61 aam authentication relay saml

SAML Authentication Relay

saml Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*saml-list*
Collection URI	/axapi/v3/aam/authentication/relay/saml
Element Name	saml
Element URI	/axapi/v3/aam/authentication/relay/saml/{name}
Element Attributes	saml_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/relay/saml/{name}/stats
Schema	`saml schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/saml

saml attributes

```
POST /axapi/v3/aam/authentication/relay/saml/
Payload:
{
    "saml": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/relay/saml

saml attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/saml/{name}

saml attributes

```
GET /axapi/v3/aam/authentication/relay/saml/a
Reponse:
{
    "saml": {
        "name": "a",
        "retry-number": 0,
        "uuid": "44e48ef4-0877-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authentication/relay/saml/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/relay/saml

saml-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/saml/{name}

saml attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/saml/{name}

saml attributes

```
PUT /axapi/v3/aam/authentication/relay/saml/a
Payload:
{
    "saml": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/relay/saml

saml-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/saml/{name}

saml attributes

```
DELETE /axapi/v3/aam/authentication/relay/saml/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

saml-list

saml-list is **JSON List** of *saml attributes*

saml-list : [

{ *saml attributes* },

{ *saml attributes* },

...

]

saml attributes

idp-auth-uri

Description Specify the URI for IDP to handle SAML authentication request

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

match-type

Description 'equals': URI exactly matches the string; 'contains': URI string contains another sub string; 'starts-with': URI string starts with sub string; 'ends-with': URI string ends with sub string;

Type: string

Supported Values: equals, contains, starts-with, ends-with

match-uri

Description Match URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

method

Description 'get-from-backend': Get RelayState parameter from backend server; 'request-uri': Use the (URL encoded) current request-uri as the RelayState;

Type: string

Supported Values: get-from-backend, request-uri

Mutual Exclusion: method and value are mutually exclusive

name

Description Specify SAML authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

relay-acs-uri

Description Specify the backend server assertion consuming service URI

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

retry-number

Description Specify how many continuous fail for SAML relay will trigger. Default will not retry.

Type: number

Range: 0-10

Default: 0

sampling-enable

Type: List

server-cookie-name

Description Specify the cookie name that used by backend server for authenticated users

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Use the fixed string as the RelayState

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: value and method are mutually exclusive

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'success': Success; 'failure': Failure; 'error': Error;

Type: string

Supported Values: all, request, success, failure, error

2.1.62 aam authentication relay saml stats

Statistics for the object saml

saml Specification

Parameter	Value
Type	*Collection*
Collection Name	*saml-list*
Collection URI	/axapi/v3/aam/authentication/relay/saml/{name}
Element Name	saml
Element URI	/axapi/v3/aam/authentication/relay/saml/{name}/stats
Element Attributes	saml_attributes
Partition Visibility	None
Schema	`saml schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/saml/{name}

saml attributes

Create List

POST

/axapi/v3/aam/authentication/relay/saml/{name}

saml attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/saml/{name}/stats

saml attributes

Get List

GET

/axapi/v3/aam/authentication/relay/saml/{name}

saml-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/saml/{name}/stats

saml attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/saml/{name}/stats

saml attributes

Replace List

PUT

/axapi/v3/aam/authentication/relay/saml/{name}

saml-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/saml/{name}/stats

saml attributes

saml-list

saml-list is **JSON List** of *saml attributes*

saml-list : [

{ *saml attributes* },

{ *saml attributes* },

…

]

saml attributes

name

Description Specify SAML authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

error

Description Error

Type: number

Format: counter

failure

Description Failure

Type: number

Format: counter

request

Description Request

Type: number

Format: counter

success

Description Success

Type: number

Format: counter

2.1.63 aam authentication relay ws-federation

WS-Federation Authentication Relay

ws-federation Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*ws-federation-list*
Collection URI	/axapi/v3/aam/authentication/relay/ws-federation
Element Name	ws-federation
Element URI	/axapi/v3/aam/authentication/relay/ws-federation/{name}
Element Attributes	ws-federation_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/relay/ws-federation/{name}/stats
Schema	`ws-federation schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/ws-federation

ws-federation attributes

```
POST /axapi/v3/aam/authentication/relay/ws-federation/
Payload:
{
    "ws-federation": {
        "name": "a",
        "user-tag": "a"
```

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```
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/relay/ws-federation

ws-federation attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/ws-federation/{name}

ws-federation attributes

```
GET /axapi/v3/aam/authentication/relay/ws-federation/a
Reponse:
{
    "ws-federation": {
        "name": "a",
        "uuid": "88a78128-0877-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authentication/relay/ws-federation/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/relay/ws-federation

ws-federation-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/ws-federation/{name}

ws-federation attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/ws-federation/{name}

ws-federation attributes

```
PUT /axapi/v3/aam/authentication/relay/ws-federation/a
Payload:
{
    "ws-federation": {
        "name": "a",
```

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```
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/relay/ws-federation

ws-federation-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/ws-federation/{name}

ws-federation attributes

```
DELETE /axapi/v3/aam/authentication/relay/ws-federation/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ws-federation-list

ws-federation-list is **JSON List** of *ws-federation attributes*

ws-federation-list : [

{ *ws-federation attributes* },

{ *ws-federation attributes* },

...

]

ws-federation attributes

application-server

Description 'sharepoint': Microsoft SharePoint; 'exchange-owa': Microsoft Exchange OWA;

Type: string

Supported Values: sharepoint, exchange-owa

authentication-uri

Description Specify WS-Federation relay URI, default is /_trust/

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

name

Description Specify WS-Federation authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-relay-ws-fed-tmpl*

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'success': Success; 'failure': Failure;

Type: string

Supported Values: all, request, success, failure

2.1.64 aam authentication relay ws-federation stats

Statistics for the object ws-federation

ws-federation Specification

Parameter	Value
Type	*Collection*
Collection Name	*ws-federation-list*
Collection URI	/axapi/v3/aam/authentication/relay/ws-federation/{name}
Element Name	ws-federation
Element URI	/axapi/v3/aam/authentication/relay/ws-federation/{name}/stats
Element Attributes	ws-federation_attributes
Partition Visibility	None
Schema	`ws-federation schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/relay/ws-federation/{name}

ws-federation attributes

Create List

POST

/axapi/v3/aam/authentication/relay/ws-federation/{name}

ws-federation attributes

Get Object

GET

/axapi/v3/aam/authentication/relay/ws-federation/{name}/stats

ws-federation attributes

Get List

GET

/axapi/v3/aam/authentication/relay/ws-federation/{name}

ws-federation-list

Modify Object

POST

/axapi/v3/aam/authentication/relay/ws-federation/{name}/stats

ws-federation attributes

Replace Object

PUT

/axapi/v3/aam/authentication/relay/ws-federation/{name}/stats

ws-federation attributes

Replace List

PUT

/axapi/v3/aam/authentication/relay/ws-federation/{name}

ws-federation-list

Delete Object

DELETE

/axapi/v3/aam/authentication/relay/ws-federation/{name}/stats

ws-federation attributes

ws-federation-list

ws-federation-list is **JSON List** of *ws-federation attributes*

```
ws-federation-list : [
        { ws-federation attributes },
        { ws-federation attributes },
        ...
    ]
```

ws-federation attributes

name

Description Specify WS-Federation authentication relay name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

failure

Description Failure

Type: number

Format: counter

request

Description Request

Type: number

Format: counter

success

Description Success

Type: number

Format: counter

2.1.65 aam authentication saml

AAM SAML related configuration

saml Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	saml
Element URI	/axapi/v3/aam/authentication/saml
Element Attributes	saml_attributes
Partition Visibility	shared
Schema	`saml schema`

Operations Allowed:

Get Object

GET

/axapi/v3/aam/authentication/saml

saml_attributes

saml attributes

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml/global*

identity-provider-list

Type: List

Reference Object: */axapi/v3/aam/authentication/saml/identity-provider/{name}*

metadata

Description: metadata is a **JSON Block**. Please see below for *metadata*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml/metadata*

metadata-monitor

Description: metadata-monitor is a **JSON Block**. Please see below for *metadata-monitor*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml/metadata-monitor*

service-provider-list

Type: List

Reference Object: */axapi/v3/aam/authentication/saml/service-provider/{name}*

session

Description: session is a **JSON Block**. Please see below for *session*

Type: Object

Reference Object: */axapi/v3/aam/authentication/saml/session*

service-provider-list

Specification	Value
Type	*list*
Block object keys	

SP-initiated-single-logout-service

Type: List

acs-uri-bypass

Description After user authenticated, bypass requests with assertion-consuming-service location URI

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

adfs-ws-federation

Description: adfs-ws-federation is a **JSON Block**. Please see below for *service-provider-list_adfs-ws-federation*

Type: Object

artifact-resolution-service

Type: List

assertion-consuming-service

Type: List

bad-request-redirect-url

Description Specify URL to redirect

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

certificate

Description SAML service provider certificate file (PFX format is required.)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

entity-id

Description SAML service provider entity ID

Type: string

Format: string-rlx

Maximum Length: 1023 characters

Maximum Length: 1 characters

metadata-export-service

Description: metadata-export-service is a **JSON Block**. Please see below for *service-provider-list_metadata-export-service*

Type: Object

name

Description Specify SAML authentication service provider name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-saml-service-prov-tmpl*

require-assertion-signed

Description: require-assertion-signed is a **JSON Block**. Please see below for *service-provider-list_require-assertion-signed*

Type: Object

saml-request-signed

Description: saml-request-signed is a **JSON Block**. Please see below for *service-provider-list_saml-request-signed*

Type: Object

sampling-enable

Type: List

service-url

Description SAML service provider service URL (ex. https://www.a10networks.com/saml.sso)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

signature-algorithm

Description 'SHA1': use SHA1 as signature algorithm (default); 'SHA256': use SHA256 as signature algorithm;

Type: string

Supported Values: SHA1, SHA256

Default: SHA1

single-logout-service

Type: List

soap-tls-certificate-validate

Description: soap-tls-certificate-validate is a **JSON Block**. Please see below for *service-provider-list_soap-tls-certificate-validate*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

username-attribute

Description Specify the assertion attribute which value is username

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service-provider-list_require-assertion-signed

Specification	Value
Type	*object*

require-assertion-signed-enable

Description Enable required signing of SAML assertion

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-provider-list_single-logout-service

Specification	Value
Type	*list*
Block object keys	

SLO-binding

Description 'post': POST binding of single logout service; 'redirect': Redirect binding of single logout service; 'soap': SOAP binding of single logout service;

Type: string

Supported Values: post, redirect, soap

SLO-location

Description The location of name-id management service. (ex. /SAML/POST)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

service-provider-list_assertion-consuming-service

Specification	Value
Type	*list*
Block object keys	

assertion-binding

Description 'artifact': Artifact binding of assertion consuming service; 'paos': PAOS binding of assertion consuming service; 'post': POST binding of assertion consuming service;

Type: string

Supported Values: artifact, paos, post

assertion-index

Description The index of assertion consuming service

Type: number

Range: 0-5

assertion-location

Description The location of assertion consuming service endpoint. (ex. /SAML/POST)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

service-provider-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'sp-metadata-export-req': Metadata Export Request; 'sp-metadata-export-success': Metadata Export Success; 'login-auth-req': Login Authentication Request; 'login-auth-resp': Login Authentication Response; 'acs-req': SAML Single-Sign-On Request; 'acs-success': SAML Single-Sign-On Success; 'acs-authz-fail': SAML Single-Sign-On Authorization Fail; 'acs-error': SAML Single-Sign-On Error; 'slo-req': Single Logout Request;

'slo-success': Single Logout Success; 'slo-error': Single Logout Error; 'sp-slo-req': SP-initiated Single Logout Request; 'glo-slo-success': Total Global Logout Success; 'loc-slo-success': Total Local Logout Success; 'par-slo-success': Total Partial Logout Success; 'other-error': Other Error;

Type: string

Supported Values: all, sp-metadata-export-req, sp-metadata-export-success, login-auth-req, login-auth-resp, acs-req, acs-success, acs-authz-fail, acs-error, slo-req, slo-success, slo-error, sp-slo-req, glo-slo-success, loc-slo-success, par-slo-success, other-error

service-provider-list_saml-request-signed

Specification	Value
Type	*object*

saml-request-signed-disable

Description Disable signing signature for SAML (Authn/Artifact Resolve) requests

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-provider-list_SP-initiated-single-logout-service

Specification	Value
Type	*list*
Block object keys	

SP-SLO-location

Description The location of SP-initiated single logout service endpoint. (ex. /Logout)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

asynchronous

Description the IDP will not send a logout response to AX

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-provider-list_adfs-ws-federation

Specification	Value
Type	*object*

ws-federation-enable

Description Enable ADFS WS-Federation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-provider-list_soap-tls-certificate-validate

Specification	Value
Type	*object*

soap-tls-certificate-validate-disable

Description Disable verification for server certificate in TLS session when resolving artificate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-provider-list_artifact-resolution-service

Specification	Value
Type	*list*
Block object keys	

artifact-binding

Description 'soap': SOAP binding of artifact resolution service;

Type: string

Supported Values: soap

artifact-index

Description The index of artifact resolution service

Type: number

Range: 0-5

artifact-location

Description The location of artifact resolution service. (ex. /SAML/POST)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

service-provider-list_metadata-export-service

Specification	Value
Type	*object*

md-export-location

Description Specify the URI to export SP metadata (Export URI. Default is /A10SP_Metadata)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sign-xml

Description Sign exported SP metadata XML with SP's certificate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

identity-provider-list

Specification	Value
Type	*list*
Block object keys	

metadata

Description URL of SAML identity provider's metadata file

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

name

Description SAML authentication identity provider name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

reload-interval

Description Specify URI metadata reload period (Specify URI metadata reload period in seconds, default is 28800)

Type: number

Range: 1-86400

Default: 28800

reload-metadata

Description Reload IdP's metadata immediately

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'requests-to-a10saml': Total Request to A10 SAML Service; 'responses-from-a10saml': Total Response from A10 SAML Service; 'sp-metadata-export-req': Total Metadata Export Request; 'sp-metadata-export-success': Toal Metadata Export Success; 'login-auth-req': Total Login Authentication Request; 'login-auth-resp': Total Login Authentication Response; 'acs-req': Total SAML Single-Sign-On Request; 'acs-success': Total SAML Single-Sign-On Success; 'acs-authz-fail': Total SAML Single-Sign-On Authorization Fail; 'acs-error': Total SAML Single-Sign-On Error; 'slo-req': Total Single Logout Request; 'slo-success': Total Single Logout Success; 'slo-error': Total Single Logout Error; 'sp-slo-req': Total SP-initiated Single Logout Request; 'glo-slo-success': Total Global Logout Success; 'loc-slo-success': Total Local Logout Success; 'par-slo-success': Total Partial Logout Success; 'relay-req': some help string; 'relay-success': some help string; 'relay-fail': some help string; 'relay-error': some help string; 'other-error': Total Other Error;

Type: string

Supported Values: all, requests-to-a10saml, responses-from-a10saml, sp-metadata-export-req, sp-metadata-export-success, login-auth-req, login-auth-resp, acs-req, acs-success, acs-authz-fail, acs-error, slo-req, slo-success, slo-error, sp-slo-req, glo-slo-success, loc-slo-success, par-slo-success, relay-req, relay-success, relay-fail, relay-error, other-error

session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

metadata-monitor

Specification	Value
Type	*object*

acs-continuous-fail-threshold

Description Specify how many ACS continuous fails will trigger metadata reload (ACS continuous fail threshold (default: 10))

Type: number

Range: 2-254

acs-missing-period

Description Specify how long no acs request will trigger metadata reload (in seconds (default: 60))

Type: number

Range: 1-254

acs-missing-threshold

Description Specify how many ACS request missing in the period will trigger metadata reload (ACS request missing threshold (default: 100))

Type: number

Range: 10-254

status

Description 'enable': Enable SAML metadata out-of-sync detection; 'disable': Disable SAML metadata out-of-sync detection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

metadata

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.66 aam authentication saml global

Global SAML statistics

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/aam/authentication/saml/global
Element Attributes	global_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/saml/global/stats
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/saml/global

global attributes

```
POST /axapi/v3/aam/authentication/saml/global
Payload:
{
    "global": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/saml/global

global attributes

```
GET /axapi/v3/aam/authentication/saml/global
Reponse:
{
    "global": {
        "uuid": "5605f52c-086a-11f0-b2f1-51c757813e60",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/aam/authentication/saml/global"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/saml/global

global attributes

Replace Object

PUT

/axapi/v3/aam/authentication/saml/global

global attributes

```
PUT /axapi/v3/aam/authentication/saml/global
Payload:
{
    "global": {
        "sampling-enable": [
            {
                "counters1": "requests-to-a10saml"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/saml/global

global attributes

```
DELETE /axapi/v3/aam/authentication/saml/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

global attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'requests-to-a10saml': Total Request to A10 SAML Service; 'responses-from-a10saml': Total Response from A10 SAML Service; 'sp-metadata-export-req': Total Metadata Export Request; 'sp-metadata-export-success': Toal Metadata Export Success; 'login-auth-req': Total Login Authentication Request; 'login-auth-resp': Total Login Authentication Response; 'acs-req': Total SAML Single-Sign-On Request; 'acs-success': Total SAML Single-Sign-On Success; 'acs-authz-fail': Total SAML Single-Sign-On Authorization Fail; 'acs-error': Total SAML Single-Sign-On Error; 'slo-req': Total Single Logout Request; 'slo-success': Total Single Logout Success; 'slo-error': Total Single Logout Error; 'sp-slo-req': Total SP-initiated Single Logout Request; 'glo-slo-success': Total Global Logout Success; 'loc-slo-success': Total Local Logout Success; 'par-slo-success': Total Partial Logout Success; 'relay-req': some help string; 'relay-success': some help string; 'relay-fail': some help string; 'relay-error': some help string; 'other-error': Total Other Error;

Type: string

Supported Values: all, requests-to-a10saml, responses-from-a10saml, sp-metadata-export-req, sp-metadata-export-success, login-auth-req, login-auth-resp, acs-req, acs-success, acs-authz-fail, acs-error, slo-req, slo-success, slo-error, sp-slo-req, glo-slo-success, loc-slo-success, par-slo-success, relay-req, relay-success, relay-fail, relay-error, other-error

2.1.67 aam authentication saml global stats

Statistics for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/aam/authentication/saml/global/stats
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/saml/global/stats

global attributes

Get Object

GET

/axapi/v3/aam/authentication/saml/global/stats

global attributes

Modify Object

POST

/axapi/v3/aam/authentication/saml/global/stats

global attributes

Replace Object

PUT

/axapi/v3/aam/authentication/saml/global/stats

global attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/saml/global/stats

global attributes

global attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

acs-authz-fail

Description Total SAML Single-Sign-On Authorization Fail

Type: number

Format: counter

acs-error

Description Total SAML Single-Sign-On Error

Type: number

Format: counter

acs-req

Description Total SAML Single-Sign-On Request

Type: number

Format: counter

acs-success

Description Total SAML Single-Sign-On Success

Type: number

Format: counter

glo-slo-success

Description Total Global Logout Success

Type: number

Format: counter

loc-slo-success

Description Total Local Logout Success

Type: number

Format: counter

login-auth-req

Description Total Login Authentication Request

Type: number

Format: counter

login-auth-resp

Description Total Login Authentication Response

Type: number

Format: counter

other-error

Description Total Other Error

Type: number

Format: counter

par-slo-success

Description Total Partial Logout Success

Type: number

Format: counter

relay-error

Description some help string

Type: number

Format: counter

relay-fail

Description some help string

Type: number

Format: counter

relay-req

Description some help string

Type: number

Format: counter

relay-success

Description some help string

Type: number

Format: counter

requests-to-a10saml

Description Total Request to A10 SAML Service

Type: number

Format: counter

responses-from-a10saml

Description Total Response from A10 SAML Service

Type: number

Format: counter

slo-error

Description Total Single Logout Error

Type: number

Format: counter

slo-req

Description Total Single Logout Request

Type: number

Format: counter

slo-success

Description Total Single Logout Success

Type: number

Format: counter

sp-metadata-export-req

Description Total Metadata Export Request

Type: number

Format: counter

sp-metadata-export-success

Description Toal Metadata Export Success

Type: number

Format: counter

sp-slo-req

Description Total SP-initiated Single Logout Request

Type: number

Format: counter

2.1.68 aam authentication saml identity-provider

Authentication identity provider

identity-provider Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*identity-provider-list*
Collection URI	/axapi/v3/aam/authentication/saml/identity-provider
Element Name	identity-provider
Element URI	/axapi/v3/aam/authentication/saml/identity-provider/{name}
Element Attributes	identity-provider_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/saml/identity-provider/{name}/stats
Operational Data URI	/axapi/v3/aam/authentication/saml/identity-provider/{name}/oper
Schema	`identity-provider schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/saml/identity-provider

identity-provider attributes

```
POST /axapi/v3/aam/authentication/saml/identity-provider/
Payload:
{
    "identity-provider": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/saml/identity-provider

identity-provider attributes

Get Object

GET

/axapi/v3/aam/authentication/saml/identity-provider/{name}

identity-provider attributes

```
GET /axapi/v3/aam/authentication/saml/identity-provider/a
Reponse:
{
    "identity-provider": {
        "name": "a",
        "reload-interval": 28800,
```

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```
        "uuid": "e671f1c6-0877-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authentication/saml/identity-provider/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/saml/identity-provider

identity-provider-list

Modify Object

POST

/axapi/v3/aam/authentication/saml/identity-provider/{name}

identity-provider attributes

Replace Object

PUT

/axapi/v3/aam/authentication/saml/identity-provider/{name}

identity-provider attributes

```
PUT /axapi/v3/aam/authentication/saml/identity-provider/a
Payload:
{
    "identity-provider": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/saml/identity-provider

identity-provider-list

Delete Object

DELETE

/axapi/v3/aam/authentication/saml/identity-provider/{name}

identity-provider attributes

```
DELETE /axapi/v3/aam/authentication/saml/identity-provider/a
Reponse:
{
    "response": {
```

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```
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

identity-provider-list

identity-provider-list is **JSON List** of *identity-provider attributes*

identity-provider-list : [

{ *identity-provider attributes* },

{ *identity-provider attributes* },

...

]

identity-provider attributes

metadata

Description URL of SAML identity provider's metadata file

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

name

Description SAML authentication identity provider name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

reload-interval

Description Specify URI metadata reload period (Specify URI metadata reload period in seconds, default is 28800)

Type: number

Range: 1-86400

Default: 28800

reload-metadata

Description Reload IdP's metadata immediately

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.69 aam authentication saml identity-provider oper

Operational Status for the object identity-provider

identity-provider Specification

Parameter	Value
Type	*Collection*
Collection Name	*identity-provider-list*
Collection URI	/axapi/v3/aam/authentication/saml/identity-provider/{name}
Element Name	identity-provider
Element URI	/axapi/v3/aam/authentication/saml/identity-provider/{name}/oper
Element Attributes	identity-provider_attributes
Partition Visibility	None
Schema	`identity-provider schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/saml/identity-provider/{name}

identity-provider attributes

Create List

POST

/axapi/v3/aam/authentication/saml/identity-provider/{name}

identity-provider attributes

Get Object

GET

/axapi/v3/aam/authentication/saml/identity-provider/{name}/oper

identity-provider attributes

Get List

GET

/axapi/v3/aam/authentication/saml/identity-provider/{name}

identity-provider-list

Modify Object

POST

/axapi/v3/aam/authentication/saml/identity-provider/{name}/oper

identity-provider attributes

Replace Object

PUT

/axapi/v3/aam/authentication/saml/identity-provider/{name}/oper

identity-provider attributes

Replace List

PUT

/axapi/v3/aam/authentication/saml/identity-provider/{name}

identity-provider-list

Delete Object

DELETE

/axapi/v3/aam/authentication/saml/identity-provider/{name}/oper

identity-provider attributes

identity-provider-list

identity-provider-list is **JSON List** of *identity-provider attributes*

identity-provider-list : [

{ *identity-provider attributes* },

{ *identity-provider attributes* },

...

]

identity-provider attributes

name

Description SAML authentication identity provider name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

aqs-list

Type: List

ars-list

Type: List

cert

Description

Type: string

entity-id

Description

Type: string

md

Description

Type: string

slo-list

Type: List

sso-list

Type: List

oper_sso-list

Specification	Value
Type	*list*
Block object keys	

sso-binding

Description

Type: string

sso-location

Description

Type: string

oper_slo-list

Specification	Value
Type	*list*
Block object keys	

slo-binding

Description

Type: string

slo-location

Description

Type: string

oper_ars-list

Specification	Value
Type	*list*
Block object keys	

ars-binding

Description

Type: string

ars-index

Description

Type: number

ars-location

Description

Type: string

oper_aqs-list

Specification	Value
Type	*list*
Block object keys	

aqs-binding

Description

Type: string

aqs-location

Description

Type: string

2.1.70 aam authentication saml identity-provider stats

Statistics for the object identity-provider

identity-provider Specification

Parameter	Value
Type	*Collection*
Collection Name	*identity-provider-list*
Collection URI	/axapi/v3/aam/authentication/saml/identity-provider/{name}
Element Name	identity-provider
Element URI	/axapi/v3/aam/authentication/saml/identity-provider/{name}/stats
Element Attributes	identity-provider_attributes
Partition Visibility	None
Schema	`identity-provider schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/saml/identity-provider/{name}

identity-provider attributes

Create List

POST

/axapi/v3/aam/authentication/saml/identity-provider/{name}

identity-provider attributes

Get Object

GET

/axapi/v3/aam/authentication/saml/identity-provider/{name}/stats

identity-provider attributes

Get List

GET

/axapi/v3/aam/authentication/saml/identity-provider/{name}

identity-provider-list

Modify Object

POST

/axapi/v3/aam/authentication/saml/identity-provider/{name}/stats

identity-provider attributes

Replace Object

PUT

/axapi/v3/aam/authentication/saml/identity-provider/{name}/stats

identity-provider attributes

Replace List

PUT

/axapi/v3/aam/authentication/saml/identity-provider/{name}

identity-provider-list

Delete Object

DELETE

/axapi/v3/aam/authentication/saml/identity-provider/{name}/stats

identity-provider attributes

identity-provider-list

identity-provider-list is **JSON List** of *identity-provider attributes*

identity-provider-list : [

{ *identity-provider attributes* },

{ *identity-provider attributes* },

...

]

identity-provider attributes

name

Description SAML authentication identity provider name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

acs-fail

Description ACS Fail Count

Type: number

Format: counter

acs-pass

Description ACS Pass Count

Type: number

Format: counter

acs-req

Description ACS Request Total Count

Type: number

Format: counter

acs-state

Description ACS State

Type: number

Format: counter

md-fail

Description Metadata Update Fail Count

Type: number

Format: counter

md-state

Description Metadata State

Type: number

Format: counter

md-update

Description Metadata Update Success Count

Type: number

Format: counter

valid-status

Description Valid IdP status or not

Type: number

Format: counter

2.1.71 aam authentication saml metadata

metadata Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	metadata
Element URI	/axapi/v3/aam/authentication/saml/metadata
Element Attributes	metadata_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/aam/authentication/saml/metadata/oper
Schema	`metadata schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/saml/metadata

metadata attributes

Get Object

GET

/axapi/v3/aam/authentication/saml/metadata

metadata attributes

Modify Object

POST

/axapi/v3/aam/authentication/saml/metadata

metadata attributes

Replace Object

PUT

/axapi/v3/aam/authentication/saml/metadata

metadata attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/saml/metadata

metadata attributes

metadata attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.72 aam authentication saml metadata-monitor

Configure SAML metadata out-of-sync detection and recovery options

metadata-monitor Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	metadata-monitor
Element URI	/axapi/v3/aam/authentication/saml/metadata-monitor
Element Attributes	metadata-monitor_attributes
Partition Visibility	shared
Schema	`metadata-monitor schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/saml/metadata-monitor

metadata-monitor attributes

```
POST /axapi/v3/aam/authentication/saml/metadata-monitor
Payload:
{
    "metadata-monitor": {
        "status": "enable"
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/saml/metadata-monitor

metadata-monitor attributes

```
GET /axapi/v3/aam/authentication/saml/metadata-monitor
Reponse:
{
    "metadata-monitor": {
        "status": "enable",
        "uuid": "2892747c-0878-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/saml/metadata-monitor"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/saml/metadata-monitor

metadata-monitor attributes

Replace Object

PUT

/axapi/v3/aam/authentication/saml/metadata-monitor

metadata-monitor attributes

```
PUT /axapi/v3/aam/authentication/saml/metadata-monitor
Payload:
{
    "metadata-monitor": {
        "acs-continuous-fail-threshold": 3
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/saml/metadata-monitor

metadata-monitor attributes

```
DELETE /axapi/v3/aam/authentication/saml/metadata-monitor
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

metadata-monitor attributes

acs-continuous-fail-threshold

Description Specify how many ACS continuous fails will trigger metadata reload (ACS continuous fail threshold (default: 10))

Type: number

Range: 2-254

acs-missing-period

Description Specify how long no acs request will trigger metadata reload (in seconds (default: 60))

Type: number

Range: 1-254

acs-missing-threshold

Description Specify how many ACS request missing in the period will trigger metadata reload (ACS request missing threshold (default: 100))

Type: number

Range: 10-254

status

Description 'enable': Enable SAML metadata out-of-sync detection; 'disable': Disable SAML metadata out-of-sync detection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.73 aam authentication saml metadata oper

Operational Status for the object metadata

metadata Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	metadata
Element URI	/axapi/v3/aam/authentication/saml/metadata/oper
Element Attributes	metadata_attributes
Partition Visibility	None
Schema	`metadata schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/saml/metadata/oper

metadata attributes

Get Object

GET

/axapi/v3/aam/authentication/saml/metadata/oper

metadata attributes

Modify Object

POST

/axapi/v3/aam/authentication/saml/metadata/oper

metadata attributes

Replace Object

PUT

/axapi/v3/aam/authentication/saml/metadata/oper

metadata attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/saml/metadata/oper

metadata attributes

metadata attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

binding

Description

Type: string

file

Description

Type: string

size

Description

Type: number

2.1.74 aam authentication saml service-provider

Authentication service provider

service-provider Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*service-provider-list*
Collection URI	/axapi/v3/aam/authentication/saml/service-provider
Element Name	service-provider
Element URI	/axapi/v3/aam/authentication/saml/service-provider/{name}
Element Attributes	service-provider_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/saml/service-provider/{name}/stats
Schema	`service-provider schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/saml/service-provider

service-provider attributes

```
POST /axapi/v3/aam/authentication/saml/service-provider/
Payload:
{
    "service-provider": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/saml/service-provider

service-provider attributes

Get Object

GET

/axapi/v3/aam/authentication/saml/service-provider/{name}

service-provider attributes

```
GET /axapi/v3/aam/authentication/saml/service-provider/a
Reponse:
{
    "service-provider": {
        "name": "a",
        "adfs-ws-federation": {
            "ws-federation-enable": 0
```

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```
        },
        "saml-request-signed": {
            "saml-request-signed-disable": 0
        },
        "soap-tls-certificate-validate": {
            "soap-tls-certificate-validate-disable": 0
        },
        "signature-algorithm": "SHA1",
        "require-assertion-signed": {
            "require-assertion-signed-enable": 0
        },
        "acs-uri-bypass": 0,
        "uuid": "534ac728-0878-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authentication/saml/service-provider/a"
    }
}
```


Get List

GET

/axapi/v3/aam/authentication/saml/service-provider

service-provider-list

Modify Object

POST

/axapi/v3/aam/authentication/saml/service-provider/{name}

service-provider attributes

Replace Object

PUT

/axapi/v3/aam/authentication/saml/service-provider/{name}

service-provider attributes

Replace List

PUT

/axapi/v3/aam/authentication/saml/service-provider

service-provider-list

Delete Object

DELETE

/axapi/v3/aam/authentication/saml/service-provider/{name}

service-provider attributes

service-provider-list

service-provider-list is **JSON List** of *service-provider attributes*

service-provider-list : [

{ *service-provider attributes* },

{ *service-provider attributes* },

...

]

service-provider attributes

SP-initiated-single-logout-service

Type: List

acs-uri-bypass

Description After user authenticated, bypass requests with assertion-consuming-service location URI

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

adfs-ws-federation

Description: adfs-ws-federation is a **JSON Block**. Please see below for *adfs-ws-federation*

Type: Object

artifact-resolution-service

Type: List

assertion-consuming-service

Type: List

bad-request-redirect-url

Description Specify URL to redirect

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

certificate

Description SAML service provider certificate file (PFX format is required.)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

entity-id

Description SAML service provider entity ID

Type: string

Format: string-rlx

Maximum Length: 1023 characters

Maximum Length: 1 characters

metadata-export-service

Description: metadata-export-service is a **JSON Block**. Please see below for *metadata-export-service*

Type: Object

name

Description Specify SAML authentication service provider name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-saml-service-prov-tmpl*

require-assertion-signed

Description: require-assertion-signed is a **JSON Block**. Please see below for *require-assertion-signed*

Type: Object

saml-request-signed

Description: saml-request-signed is a **JSON Block**. Please see below for *saml-request-signed*

Type: Object

sampling-enable

Type: List

service-url

Description SAML service provider service URL (ex. https://www.a10networks.com/saml.sso)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

signature-algorithm

Description 'SHA1': use SHA1 as signature algorithm (default); 'SHA256': use SHA256 as signature algorithm;

Type: string

Supported Values: SHA1, SHA256

Default: SHA1

single-logout-service

Type: List

soap-tls-certificate-validate

Description: soap-tls-certificate-validate is a **JSON Block**. Please see below for *soap-tls-certificate-validate*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

username-attribute

Description Specify the assertion attribute which value is username

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

require-assertion-signed

Specification	Value
Type	*object*

require-assertion-signed-enable

Description Enable required signing of SAML assertion

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

single-logout-service

Specification	Value
Type	*list*
Block object keys	

SLO-binding

Description 'post': POST binding of single logout service; 'redirect': Redirect binding of single logout service; 'soap': SOAP binding of single logout service;

Type: string

Supported Values: post, redirect, soap

SLO-location

Description The location of name-id management service. (ex. /SAML/POST)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

assertion-consuming-service

Specification	Value
Type	*list*
Block object keys	

assertion-binding

Description 'artifact': Artifact binding of assertion consuming service; 'paos': PAOS binding of assertion consuming service; 'post': POST binding of assertion consuming service;

Type: string

Supported Values: artifact, paos, post

assertion-index

Description The index of assertion consuming service

Type: number

Range: 0-5

assertion-location

Description The location of assertion consuming service endpoint. (ex. /SAML/POST)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'sp-metadata-export-req': Metadata Export Request; 'sp-metadata-export-success': Metadata Export Success; 'login-auth-req': Login Authentication Request; 'login-auth-resp': Login Authentication Response; 'acs-req': SAML Single-Sign-On Request; 'acs-success': SAML Single-Sign-On Success; 'acs-authz-fail': SAML Single-Sign-On Authorization Fail; 'acs-error': SAML Single-Sign-On Error; 'slo-req': Single Logout Request; 'slo-success': Single Logout Success; 'slo-error': Single Logout Error; 'sp-slo-req': SP-initiated Single Logout Request; 'glo-slo-success': Total Global Logout Success; 'loc-slo-success': Total Local Logout Success; 'par-slo-success': Total Partial Logout Success; 'other-error': Other Error;

Type: string

Supported Values: all, sp-metadata-export-req, sp-metadata-export-success, login-auth-req, login-auth-resp, acs-req, acs-success, acs-authz-fail, acs-error, slo-req, slo-success, slo-error, sp-slo-req, glo-slo-success, loc-slo-success, par-slo-success, other-error

saml-request-signed

Specification	Value
Type	*object*

saml-request-signed-disable

Description Disable signing signature for SAML (Authn/Artifact Resolve) requests

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

SP-initiated-single-logout-service

Specification	Value
Type	*list*
Block object keys	

SP-SLO-location

Description The location of SP-initiated single logout service endpoint. (ex. /Logout)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

asynchronous

Description the IDP will not send a logout response to AX

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

adfs-ws-federation

Specification	Value
Type	*object*

ws-federation-enable

Description Enable ADFS WS-Federation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

soap-tls-certificate-validate

Specification	Value
Type	*object*

soap-tls-certificate-validate-disable

Description Disable verification for server certificate in TLS session when resolving artificate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

artifact-resolution-service

Specification	Value
Type	*list*
Block object keys	

artifact-binding

Description 'soap': SOAP binding of artifact resolution service;

Type: string

Supported Values: soap

artifact-index

Description The index of artifact resolution service

Type: number

Range: 0-5

artifact-location

Description The location of artifact resolution service. (ex. /SAML/POST)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

metadata-export-service

Specification	Value
Type	*object*

md-export-location

Description Specify the URI to export SP metadata (Export URI. Default is /A10SP_Metadata)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sign-xml

Description Sign exported SP metadata XML with SP's certificate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.1.75 aam authentication saml service-provider stats

Statistics for the object service-provider

service-provider Specification

Parameter	Value
Type	*Collection*
Collection Name	*service-provider-list*
Collection URI	/axapi/v3/aam/authentication/saml/service-provider/{name}
Element Name	service-provider
Element URI	/axapi/v3/aam/authentication/saml/service-provider/{name}/stats
Element Attributes	service-provider_attributes
Partition Visibility	None
Schema	`service-provider schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/saml/service-provider/{name}

service-provider attributes

Create List

POST

/axapi/v3/aam/authentication/saml/service-provider/{name}

service-provider attributes

Get Object

GET

/axapi/v3/aam/authentication/saml/service-provider/{name}/stats

service-provider attributes

Get List

GET

/axapi/v3/aam/authentication/saml/service-provider/{name}

service-provider-list

Modify Object

POST

/axapi/v3/aam/authentication/saml/service-provider/{name}/stats

service-provider attributes

Replace Object

PUT

/axapi/v3/aam/authentication/saml/service-provider/{name}/stats

service-provider attributes

Replace List

PUT

/axapi/v3/aam/authentication/saml/service-provider/{name}

service-provider-list

Delete Object

DELETE

/axapi/v3/aam/authentication/saml/service-provider/{name}/stats

service-provider attributes

service-provider-list

service-provider-list is **JSON List** of *service-provider attributes*

service-provider-list : [

{ *service-provider attributes* },

{ *service-provider attributes* },

...

]

service-provider attributes

name

Description Specify SAML authentication service provider name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

acs-authz-fail

Description SAML Single-Sign-On Authorization Fail

Type: number

Format: counter

acs-error

Description SAML Single-Sign-On Error

Type: number

Format: counter

acs-req

Description SAML Single-Sign-On Request

Type: number

Format: counter

acs-success

Description SAML Single-Sign-On Success

Type: number

Format: counter

glo-slo-success

Description Total Global Logout Success

Type: number

Format: counter

loc-slo-success

Description Total Local Logout Success

Type: number

Format: counter

login-auth-req

Description Login Authentication Request

Type: number

Format: counter

login-auth-resp

Description Login Authentication Response

Type: number

Format: counter

other-error

Description Other Error

Type: number

Format: counter

par-slo-success

Description Total Partial Logout Success

Type: number

Format: counter

slo-error

Description Single Logout Error

Type: number

Format: counter

slo-req

Description Single Logout Request

Type: number

Format: counter

slo-success

Description Single Logout Success

Type: number

Format: counter

sp-metadata-export-req

Description Metadata Export Request

Type: number

Format: counter

sp-metadata-export-success

Description Metadata Export Success

Type: number

Format: counter

sp-slo-req

Description SP-initiated Single Logout Request

Type: number

Format: counter

2.1.76 aam authentication saml session

session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	session
Element URI	/axapi/v3/aam/authentication/saml/session
Element Attributes	session_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/aam/authentication/saml/session/oper
Schema	`session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/saml/session

session attributes

Get Object

GET

/axapi/v3/aam/authentication/saml/session

session attributes

Modify Object

POST

/axapi/v3/aam/authentication/saml/session

session attributes

Replace Object

PUT

/axapi/v3/aam/authentication/saml/session

session attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/saml/session

session attributes

session attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.77 aam authentication saml session oper

Operational Status for the object session

session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	session
Element URI	/axapi/v3/aam/authentication/saml/session/oper
Element Attributes	session_attributes
Partition Visibility	None
Schema	`session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/saml/session/oper

session attributes

Get Object

GET

/axapi/v3/aam/authentication/saml/session/oper

session attributes

Modify Object

POST

/axapi/v3/aam/authentication/saml/session/oper

session attributes

Replace Object

PUT

/axapi/v3/aam/authentication/saml/session/oper

session attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/saml/session/oper

session attributes

session attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

name

Description

Type: string

sp-list

Type: List

oper_sp-list

Specification	Value
Type	*list*
Block object keys	

session-count

Description

Type: number

session-list

Type: List

sp-id

Description

Type: string

oper_sp-list_session-list

Specification	Value
Type	*list*
Block object keys	

auth-instant

Description

Type: string

client-addr

Description

Type: string

expire-time

Description

Type: string

id-provider

Description

Type: string

nameid

Description

Type: string

2.1.78 aam authentication server

Authentication server configuration

server Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	server
Element URI	/axapi/v3/aam/authentication/server
Element Attributes	server_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/aam/authentication/server/oper
Schema	`server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server

server attributes

```
POST /axapi/v3/aam/authentication/server
Payload:
{
    "server": {
        "ldap": {
            "sampling-enable": [
                {
                    "counters1": "all"
                }
            ]
        }
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/server

server attributes

```
GET /axapi/v3/aam/authentication/server
Reponse:
{
    "server": {
        "uuid": "5605f11c-086a-11f0-b2f1-51c757813e60",
        "ldap": {
            "uuid": "5605f1bc-086a-11f0-b2f1-51c757813e60",
            "sampling-enable": [
                {
                    "counters1": "all"
                }
            ],
            "a10-url": "/axapi/v3/aam/authentication/server/ldap"
        },
        "ocsp": {
            "uuid": "5605f25c-086a-11f0-b2f1-51c757813e60",
            "a10-url": "/axapi/v3/aam/authentication/server/ocsp"
        },
        "radius": {
            "uuid": "5605f2fc-086a-11f0-b2f1-51c757813e60",
            "a10-url": "/axapi/v3/aam/authentication/server/radius"
        },
        "windows": {
            "uuid": "5605f39c-086a-11f0-b2f1-51c757813e60",
            "a10-url": "/axapi/v3/aam/authentication/server/windows"
        },
        "a10-url": "/axapi/v3/aam/authentication/server"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/server

server attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server

server attributes

```
PUT /axapi/v3/aam/authentication/server
Payload:
{
```

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```
    "server": {
        "ldap": {
            "instance-list": [
                {
                    "name": "a",
                    "host": {
                        "hostipv6": "2003::2"
                    }
                }
            ]
        }
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/server

server attributes

```
DELETE /axapi/v3/aam/authentication/server
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

server attributes

ldap

Description: ldap is a **JSON Block**. Please see below for *ldap*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/ldap*

ocsp

Description: ocsp is a **JSON Block**. Please see below for *ocsp*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/ocsp*

radius

Description: radius is a **JSON Block**. Please see below for *radius*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/radius*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

windows

Description: windows is a **JSON Block**. Please see below for *windows*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/windows*

windows

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/windows/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

windows_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'kerberos-request-send': Total Kerberos Request; 'kerberos-response-get': Total Kerberos Response; 'kerberos-timeout-error': Total Kerberos Timeout; 'kerberos-other-error': Total Kerberos Other Error; 'ntlm-authentication-success': Total NTLM Authentication Success; 'ntlm-authentication-failure': Total NTLM Authentication Failure; 'ntlm-proto-negotiation-success': Total NTLM Protocol Negotiation Success; 'ntlm-proto-negotiation-failure': Total NTLM Protocol Negotiation Failure; 'ntlm-session-setup-success': Total NTLM Session Setup Success; 'ntlm-session-setup-failed': Total NTLM Session

Setup Failure; 'kerberos-request-normal': Total Kerberos Normal Request; 'kerberos-request-dropped': Total Kerberos Dropped Request; 'kerberos-response-success': Total Kerberos Success Response; 'kerberos-response-failure': Total Kerberos Failure Response; 'kerberos-response-error': Total Kerberos Error Response; 'kerberos-response-timeout': Total Kerberos Timeout Response; 'kerberos-response-other': Total Kerberos Other Response; 'kerberos-job-start-error': Total Kerberos Job Start Error; 'kerberos-polling-control-error': Total Kerberos Polling Control Error; 'ntlm-prepare-req-success': Total NTLM Prepare Request Success; 'ntlm-prepare-req-failed': Total NTLM Prepare Request Failed; 'ntlm-timeout-error': Total NTLM Timeout; 'ntlm-other-error': Total NTLM Other Error; 'ntlm-request-normal': Total NTLM Normal Request; 'ntlm-request-dropped': Total NTLM Dropped Request; 'ntlm-response-success': Total NTLM Success Response; 'ntlm-response-failure': Total NTLM Failure Response; 'ntlm-response-error': Total NTLM Error Response; 'ntlm-response-timeout': Total NTLM Timeout Response; 'ntlm-response-other': Total NTLM Other Response; 'ntlm-job-start-error': Total NTLM Job Start Error; 'ntlm-polling-control-error': Total NTLM Polling Control Error; 'kerberos-pw-expiry': Total Kerberos password expiry; 'kerberos-pw-change-success': Total Kerberos password change success; 'kerberos-pw-change-failure': Total Kerberos password change failure; 'kerberos-validate-kdc-success': Total Kerberos KDC Validation Success; 'kerberos-validate-kdc-failure': Total Kerberos KDC Validation Failure; 'kerberos-generate-kdc-keytab-success': Total Kerberos KDC Keytab Generation Success; 'kerberos-generate-kdc-keytab-failure': Total Kerberos KDC Keytab Generation Failure; 'kerberos-delete-kdc-keytab-success': Total Kerberos KDC Keytab Deletion Success; 'kerberos-delete-kdc-keytab-failure': Total Kerberos KDC Keytab Deletion Failure; 'kerberos-kdc-keytab-count': Current Kerberos KDC Keytab Count;

Type: string

Supported Values: all, kerberos-request-send, kerberos-response-get, kerberos-timeout-error, kerberos-other-error, kerberos-request-normal, kerberos-request-dropped, kerberos-response-success, kerberos-response-failure, kerberos-response-error, kerberos-response-timeout, kerberos-response-other, kerberos-job-start-error, kerberos-polling-control-error, kerberos-pw-expiry, kerberos-pw-change-success, kerberos-pw-change-failure, kerberos-validate-kdc-success, kerberos-validate-kdc-failure, kerberos-generate-kdc-keytab-success, kerberos-generate-kdc-keytab-failure, kerberos-delete-kdc-keytab-success, kerberos-delete-kdc-keytab-failure, kerberos-kdc-keytab-count

windows_instance-list

Specification	Value
Type	*list*
Block object keys	

auth-protocol

Description: auth-protocol is a **JSON Block**. Please see below for *windows_instance-list_auth-protocol*

Type: Object

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *windows_instance-list_host*

Type: Object

name

Description Specify Windows authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-win-inst-tmpl*

realm

Description Specify realm of Windows server

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

support-apacheds-kdc

Description Enable weak cipher (DES CRC/MD5/MD4) and merge AS-REQ in single packet

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Specify connection timeout to server, default is 10 seconds

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

windows_instance-list_host

Specification	Value
Type	*object*

hostip

Description Specify the Windows server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Specify the Windows server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

windows_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'krb_send_req_success': Kerberos Request; 'krb_get_resp_success': Kerberos Response; 'krb_timeout_error': Kerberos Timeout; 'krb_other_error': Kerberos Other Error; 'krb_pw_expiry': Kerberos password expiry; 'krb_pw_change_success': Kerberos password change success; 'krb_pw_change_failure': Kerberos password change failure; 'ntlm_proto_nego_success': NTLM Protocol Negotiation Success; 'ntlm_proto_nego_failure': NTLM Protocol Negotiation Failure; 'ntlm_session_setup_success': NTLM Session Setup Success; 'ntlm_session_setup_failure': NTLM Session Setup Failure; 'ntlm_prepare_req_success': NTLM Prepare Request Success; 'ntlm_prepare_req_error': NTLM Prepare Request Error; 'ntlm_auth_success': NTLM Authentication Success; 'ntlm_auth_failure': NTLM Authentication Failure; 'ntlm_timeout_error': NTLM Timeout; 'ntlm_other_error': NTLM Other Error; 'krb_validate_kdc_success': Kerberos KDC Validation Success; 'krb_validate_kdc_failure': Kerberos KDC Validation Failure;

Type: string

Supported Values: all, krb_send_req_success, krb_get_resp_success, krb_timeout_error, krb_other_error, krb_pw_expiry, krb_pw_change_success, krb_pw_change_failure, krb_validate_kdc_success, krb_validate_kdc_failure

windows_instance-list_auth-protocol

Specification	Value
Type	*object*

kdc-validate

Description Enable KDC validation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

kerberos-kdc-validation

Description: kerberos-kdc-validation is a **JSON Block**. Please see below for *windows_instance-list_auth-protocol_kerberos-kdc-validation*

Type: Object

kerberos-password-change-port

Description Specify the Kerbros password change port, default is 464

Type: number

Range: 1-65534

Default: 464

kerberos-port

Description Specify the Kerberos port, default is 88

Type: number

Range: 1-65534

Default: 88

kport-hm

Description Check Kerberos port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: kport-hm and kport-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

kport-hm-disable

Description Disable configured Kerberos port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: kport-hm-disable and kport-hm are mutually exclusive

windows_instance-list_auth-protocol_kerberos-kdc-validation

Specification	Value
Type	*object*

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.)

kdc-account

Description Specify account for KDC validation

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

kdc-password

Description Specify account password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

kdc-pwd

Description Account password

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

kdc-spn

Description Specify SPN for KDC validation

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ocsp

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/ocsp/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ocsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'stapling-certificate-good': Total OCSP Stapling Good Certificate Response; 'stapling-certificate-revoked': Total OCSP Stapling Revoked Certificate Response; 'stapling-certificate-unknown': Total OCSP Stapling Unknown Certificate Response; 'stapling-request-normal': Total OSCP Stapling Normal Request; 'stapling-request-dropped': Total OCSP Stapling Dropped Request; 'stapling-response-success': Total OCSP Stapling Success Response; 'stapling-response-failure': Total OCSP Stapling Failure Response; 'stapling-response-error': Total OCSP Stapling Error Response; 'stapling-response-timeout': Total OCSP Stapling Timeout Response; 'stapling-response-other': Total OCSP Stapling Other Response; 'request-normal': Total OSCP Normal Request; 'request-dropped': Total OCSP Dropped Request; 'response-success': Total OCSP Success Response; 'response-failure': Total OCSP Failure Response; 'response-error': Total OCSP Error Response; 'response-timeout': Total OCSP Timeout Response; 'response-other': Total OCSP Other Response; 'job-start-error': Total OCSP Job Start Error; 'polling-control-error': Total OCSP Polling Control Error;

Type: string

Supported Values: all, stapling-certificate-good, stapling-certificate-revoked, stapling-certificate-unknown, stapling-request-normal, stapling-request-dropped, stapling-response-success, stapling-response-failure, stapling-response-error, stapling-response-timeout, stapling-response-other, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error

ocsp_instance-list

Specification	Value
Type	*list*
Block object keys	

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

http-version

Description Set HTTP version (default 1.0)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Specify OCSP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-ocsp-inst-tmpl*

port-health-check

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-health-check and port-health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-health-check-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-health-check-disable and port-health-check are mutually exclusive

responder-ca

Description Specify the trusted OCSP responder's CA cert filename

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

responder-cert

Description Specify the trusted OCSP responder's cert filename

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

sampling-enable

Type: List

url

Description Specify the OCSP server's address (Format: http://host{[}:port{]}/) (The OCSP server's address(Format: http://host{[}:port{]}/))

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

version-type

Description '1.1': HTTP version 1.1;

Type: string

Supported Values: 1.1

ocsp_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'certificate-good': Good Certificate Response; 'certificate-revoked': Revoked Certificate Response; 'certificate-unknown': Unknown Certificate Response; 'timeout': Timeout; 'fail': Handle OCSP response failed; 'stapling-request': OCSP Stapling Request Send; 'stapling-certificate-good': OCSP Stapling Good Certificate Response; 'stapling-certificate-revoked': OCSP Stapling Revoked Certificate Response; 'stapling-certificate-unknown': OCSP Stapling Unknown Certificate Response; 'stapling-timeout': OCSP Stapling Timeout; 'stapling-fail': Handle OCSP response failed;

Type: string

Supported Values: all, request, certificate-good, certificate-revoked, certificate-unknown, timeout, fail, stapling-request, stapling-certificate-good, stapling-certificate-revoked, stapling-certificate-unknown, stapling-timeout, stapling-fail

radius

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/radius/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

radius_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'authen_success': Total Authentication Success; 'authen_failure': Total Authentication Failure; 'authorize_success': Total Authorization Success; 'authorize_failure': Total Authorization Failure; 'access_challenge': Total Access-Challenge Message Receive; 'timeout_error': Total Timeout; 'other_error': Total Other Error; 'request': Total Request; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response; 'job-start-error': Total Job Start Error; 'polling-control-error': Total Polling Control Error; 'accounting-request-sent': Accounting-Request Sent; 'accounting-success': Accounting Success; 'accounting-failure': Accounting Failure;

Type: string

Supported Values: all, authen_success, authen_failure, authorize_success, authorize_failure, access_challenge, timeout_error, other_error, request, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error, accounting-request-sent, accounting-success, accounting-failure

radius_instance-list

Specification	Value
Type	*list*
Block object keys	

accounting-port

Description Specify the RADIUS server's accounting port, default is 1813

Type: number

Range: 1-65534

Default: 1813

acct-port-hm

Description Specify accounting port health check method

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: acct-port-hm and acct-port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

acct-port-hm-disable

Description Disable configured accounting port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: acct-port-hm-disable and acct-port-hm are mutually exclusive

auth-type

Description 'pap': PAP authentication. Default; 'mschapv2': MS-CHAPv2 authentication; 'mschapv2-pap': Use MS-CHAPv2 first. If server doesn't support it, try PAP;

Type: string

Supported Values: pap, mschapv2, mschapv2-pap

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *radius_instance-list_host*

Type: Object

interval

Description Specify the interval time for resend the request (second), default is 3 seconds (The interval time(second), default is 3 seconds)

Type: number

Range: 1-1024

Default: 3

message-authenticator-verify-enable

Description Verify Message-Authenticator attribute

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Specify RADIUS authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-rad-inst-tmpl*

port

Description Specify the RADIUS server's authentication port, default is 1812

Type: number

Range: 1-65534

Default: 1812

port-hm

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-hm and port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-hm-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-hm-disable and port-hm are mutually exclusive

retry

Description Specify the retry number for resend the request, default is 5 (The retry number, default is 5)

Type: number

Range: 1-32

Default: 5

sampling-enable

Type: List

secret

Description Specify the RADIUS server's secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-string

Description The RADIUS server's secret

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

radius_instance-list_host

Specification	Value
Type	*object*

hostip

Description Server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

radius_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'authen_success': Authentication Success; 'authen_failure': Authentication Failure; 'authorize_success': Authorization Success; 'authorize_failure': Authorization Failure; 'access_challenge': Access-Challenge Message Receive; 'timeout_error': Timeout; 'other_error': Other Error; 'request': Request; 'accounting-request-sent': Accounting-Request Sent; 'accounting-success': Accounting Success; 'accounting-failure': Accounting Failure;

Type: string

Supported Values: all, authen_success, authen_failure, authorize_success, authorize_failure, access_challenge, timeout_error, other_error, request, accounting-request-sent, accounting-success, accounting-failure

ldap

Specification	Value
Type	*object*

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/ldap/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ldap_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'admin-bind-success': Total Admin Bind Success; 'admin-bind-failure': Total Admin Bind Failure; 'bind-success': Total User Bind Success; 'bind-failure': Total User Bind Failure; 'search-success': Total Search Success; 'search-failure': Total Search Failure; 'authorize-success': Total Authorization Success; 'authorize-failure': Total Authorization Failure; 'timeout-error': Total Timeout; 'other-error': Total Other Error; 'request': Total Request; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response; 'job-start-error': Total Job Start Error; 'polling-control-error': Total Polling Control Error; 'ssl-session-created': TLS/SSL Session Created;

'ssl-session-failure': TLS/SSL Session Failure; 'ldaps-idle-conn-num': LDAPS Idle Connection Number; 'ldaps-inuse-conn-num': LDAPS In-use Connection Number; 'pw-expiry': Total Password expiry; 'pw-change-success': Total password change success; 'pw-change-failure': Total password change failure;

Type: string

Supported Values: all, admin-bind-success, admin-bind-failure, bind-success, bind-failure, search-success, search-failure, authorize-success, authorize-failure, timeout-error, other-error, request, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error, ssl-session-created, ssl-session-failure, ldaps-idle-conn-num, ldaps-inuse-conn-num, pw-expiry, pw-change-success, pw-change-failure

ldap_instance-list

Specification	Value
Type	*list*
Block object keys	

admin-dn

Description The LDAP server's admin DN

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

admin-secret

Description Specify the LDAP server's admin secret password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-type

Description 'ad': Active Directory. Default; 'open-ldap': OpenLDAP;

Type: string

Supported Values: ad, open-ldap

base

Description Specify the LDAP server's search base

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

bind-with-dn

Description Enforce using DN for LDAP binding(All user input name will be used to create DN)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ca-cert

Description Specify the LDAPS CA cert filename (Trusted LDAPS CA cert filename)

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

default-domain

Description Specify default domain for LDAP

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

derive-bind-dn

Description: derive-bind-dn is a **JSON Block**. Please see below for *ldap_instance-list_derive-bind-dn*

Type: Object

dn-attribute

Description Specify Distinguished Name attribute, default is CN

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

Default: cn

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *ldap_instance-list_host*

Type: Object

ldaps-conn-reuse-idle-timeout

Description Specify LDAPS connection reuse idle timeout value (in seconds) (Specify idle timeout value (in seconds), default is 0 (not reuse LDAPS connection))

Type: number

Range: 0-86400

Default: 0

name

Description Specify LDAP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-ldap-inst-tmpl*

port

Description Specify the LDAP server's authentication port, default is 389

Type: number

Range: 1-65534

Default: 389

port-hm

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-hm and port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-hm-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-hm-disable and port-hm are mutually exclusive

prompt-pw-change-before-exp

Description Prompt user to change password before expiration in N days. This option only takes effect when server type is AD (Prompt user to change password before expiration in N days, default is not to prompt the user)

Type: number

Range: 1-999

protocol

Description 'ldap': Use LDAP (default); 'ldaps': Use LDAP over SSL; 'starttls': Use LDAP StartTLS;

Type: string

Supported Values: ldap, ldaps, starttls

Default: ldap

pwdmaxage

Description Specify the LDAP server's default password expiration time (in seconds) (The LDAP server's default password expiration time (in seconds), default is 0 (no expiration))

Type: number

Range: 0-4294967295

Default: 0

sampling-enable

Type: List

secret-string

Description secret password

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

timeout

Description Specify timout for LDAP, default is 10 seconds (The timeout, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ldap_instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'admin-bind-success': Admin Bind Success; 'admin-bind-failure': Admin Bind Failure; 'bind-success': User Bind Success; 'bind-failure': User Bind Failure; 'search-success': Search Success; 'search-failure': Search Failure; 'authorize-success': Authorization Success; 'authorize-failure': Authorization Failure; 'timeout-error': Timeout; 'other-error': Other Error; 'request': Request; 'ssl-session-created': TLS/SSL Session Created; 'ssl-session-failure': TLS/SSL Session Failure; 'pw_expiry': Password expiry; 'pw_change_success': Password change success; 'pw_change_failure': Password change failure;

Type: string

Supported Values: all, admin-bind-success, admin-bind-failure, bind-success, bind-failure, search-success, search-failure, authorize-success, authorize-failure, timeout-error, other-error, request, ssl-session-created, ssl-session-failure, pw_expiry, pw_change_success, pw_change_failure

ldap_instance-list_derive-bind-dn

Specification	Value
Type	*object*

username-attr

Description Specify attribute name of username

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

ldap_instance-list_host

Specification	Value
Type	*object*

hostip

Description Server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

2.1.79 aam authentication server ldap

LDAP Authentication Server

ldap Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ldap
Element URI	/axapi/v3/aam/authentication/server/ldap
Element Attributes	ldap_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/server/ldap/stats
Operational Data URI	/axapi/v3/aam/authentication/server/ldap/oper
Schema	`ldap schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/ldap

ldap attributes

```
POST /axapi/v3/aam/authentication/server/ldap
Payload:
{
    "ldap": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/server/ldap

ldap attributes

```
GET /axapi/v3/aam/authentication/server/ldap
Reponse:
{
    "ldap": {
        "uuid": "5605f1bc-086a-11f0-b2f1-51c757813e60",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/aam/authentication/server/ldap"
```

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```
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/server/ldap

ldap attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/ldap

ldap attributes

```
PUT /axapi/v3/aam/authentication/server/ldap
Payload:
{
    "ldap": {
        "sampling-enable": [
            {
                "counters1": "admin-bind-success"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/server/ldap

ldap attributes

```
DELETE /axapi/v3/aam/authentication/server/ldap
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ldap attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/ldap/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'admin-bind-success': Total Admin Bind Success; 'admin-bind-failure': Total Admin Bind Failure; 'bind-success': Total User Bind Success; 'bind-failure': Total User Bind Failure; 'search-success': Total Search Success; 'search-failure': Total Search Failure; 'authorize-success': Total Authorization Success; 'authorize-failure': Total Authorization Failure; 'timeout-error': Total Timeout; 'other-error': Total Other Error; 'request': Total Request; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response; 'job-start-error': Total Job Start Error; 'polling-control-error': Total Polling Control Error; 'ssl-session-created': TLS/SSL Session Created; 'ssl-session-failure': TLS/SSL Session Failure; 'ldaps-idle-conn-num': LDAPS Idle Connection Number; 'ldaps-inuse-conn-num': LDAPS In-use Connection Number; 'pw-expiry': Total Password expiry; 'pw-change-success': Total password change success; 'pw-change-failure': Total password change failure;

Type: string

Supported Values: all, admin-bind-success, admin-bind-failure, bind-success, bind-failure, search-success, search-failure, authorize-success, authorize-failure, timeout-error, other-error, request, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error, ssl-session-created, ssl-session-failure, ldaps-idle-conn-num, ldaps-inuse-conn-num, pw-expiry, pw-change-success, pw-change-failure

instance-list

Specification	Value
Type	*list*
Block object keys	

admin-dn

Description The LDAP server's admin DN

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

admin-secret

Description Specify the LDAP server's admin secret password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-type

Description 'ad': Active Directory. Default; 'open-ldap': OpenLDAP;

Type: string

Supported Values: ad, open-ldap

base

Description Specify the LDAP server's search base

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

bind-with-dn

Description Enforce using DN for LDAP binding(All user input name will be used to create DN)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ca-cert

Description Specify the LDAPS CA cert filename (Trusted LDAPS CA cert filename)

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

default-domain

Description Specify default domain for LDAP

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

derive-bind-dn

Description: derive-bind-dn is a **JSON Block**. Please see below for *instance-list_derive-bind-dn*

Type: Object

dn-attribute

Description Specify Distinguished Name attribute, default is CN

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

Default: cn

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *instance-list_host*

Type: Object

ldaps-conn-reuse-idle-timeout

Description Specify LDAPS connection reuse idle timeout value (in seconds) (Specify idle timeout value (in seconds), default is 0 (not reuse LDAPS connection))

Type: number

Range: 0-86400

Default: 0

name

Description Specify LDAP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-ldap-inst-tmpl*

port

Description Specify the LDAP server's authentication port, default is 389

Type: number

Range: 1-65534

Default: 389

port-hm

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-hm and port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-hm-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-hm-disable and port-hm are mutually exclusive

prompt-pw-change-before-exp

Description Prompt user to change password before expiration in N days. This option only takes effect when server type is AD (Prompt user to change password before expiration in N days, default is not to prompt the user)

Type: number

Range: 1-999

protocol

Description 'ldap': Use LDAP (default); 'ldaps': Use LDAP over SSL; 'starttls': Use LDAP StartTLS;

Type: string

Supported Values: ldap, ldaps, starttls

Default: ldap

pwdmaxage

Description Specify the LDAP server's default password expiration time (in seconds) (The LDAP server's default password expiration time (in seconds), default is 0 (no expiration))

Type: number

Range: 0-4294967295

Default: 0

sampling-enable

Type: List

secret-string

Description secret password

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

timeout

Description Specify timout for LDAP, default is 10 seconds (The timeout, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'admin-bind-success': Admin Bind Success; 'admin-bind-failure': Admin Bind Failure; 'bind-success': User Bind Success; 'bind-failure': User Bind Failure; 'search-success': Search Success; 'search-failure': Search Failure; 'authorize-success': Authorization Success; 'authorize-failure': Authorization Failure; 'timeout-error': Timeout; 'other-error': Other Error; 'request': Request; 'ssl-session-created': TLS/SSL Session Created; 'ssl-session-failure': TLS/SSL Session Failure; 'pw_expiry': Password expiry; 'pw_change_success': Password change success; 'pw_change_failure': Password change failure;

Type: string

Supported Values: all, admin-bind-success, admin-bind-failure, bind-success, bind-failure, search-success, search-failure, authorize-success, authorize-failure, timeout-error, other-error, request, ssl-session-created, ssl-session-failure, pw_expiry, pw_change_success, pw_change_failure

instance-list_derive-bind-dn

Specification	Value
Type	*object*

username-attr

Description Specify attribute name of username

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

instance-list_host

Specification	Value
Type	*object*

hostip

Description Server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

2.1.80 aam authentication server ldap instance

LDAP Authentication Server

instance Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/server/ldap/instance
Element Name	instance
Element URI	/axapi/v3/aam/authentication/server/ldap/instance/{name}
Element Attributes	instance_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/server/ldap/instance/{name}/stats
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/ldap/instance

instance attributes

```
POST /axapi/v3/aam/authentication/server/ldap/instance/
Payload:
{
    "instance": {
        "name": "a",
        "host": {
            "hostip": "a"
        }
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/server/ldap/instance

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/server/ldap/instance/{name}

instance attributes

```
GET /axapi/v3/aam/authentication/server/ldap/instance/a
Reponse:
{
    "instance": {
        "name": "a",
        "host": {
            "hostip": "a"
        },
        "port": 389,
        "port-hm-disable": 0,
        "pwdmaxage": 0,
        "admin-secret": 0,
        "timeout": 10,
        "dn-attribute": "cn",
        "bind-with-dn": 0,
        "health-check": 0,
        "protocol": "ldap",
        "uuid": "29092bca-0879-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/server/ldap/instance/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/server/ldap/instance

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/server/ldap/instance/{name}

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/ldap/instance/{name}

instance attributes

```
PUT /axapi/v3/aam/authentication/server/ldap/instance/a
Payload:
{
    "instance": {
        "name": "a",
        "host": {
            "hostip": "abcd"
        }
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/server/ldap/instance

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/server/ldap/instance/{name}

instance attributes

```
DELETE /axapi/v3/aam/authentication/server/ldap/instance/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

admin-dn

Description The LDAP server's admin DN

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

admin-secret

Description Specify the LDAP server's admin secret password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-type

Description 'ad': Active Directory. Default; 'open-ldap': OpenLDAP;

Type: string

Supported Values: ad, open-ldap

base

Description Specify the LDAP server's search base

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

bind-with-dn

Description Enforce using DN for LDAP binding(All user input name will be used to create DN)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ca-cert

Description Specify the LDAPS CA cert filename (Trusted LDAPS CA cert filename)

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

default-domain

Description Specify default domain for LDAP

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

derive-bind-dn

Description: derive-bind-dn is a **JSON Block**. Please see below for *derive-bind-dn*

Type: Object

dn-attribute

Description Specify Distinguished Name attribute, default is CN

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

Default: cn

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *host*

Type: Object

ldaps-conn-reuse-idle-timeout

Description Specify LDAPS connection reuse idle timeout value (in seconds) (Specify idle timeout value (in seconds), default is 0 (not reuse LDAPS connection))

Type: number

Range: 0-86400

Default: 0

name

Description Specify LDAP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-ldap-inst-tmpl*

port

Description Specify the LDAP server's authentication port, default is 389

Type: number

Range: 1-65534

Default: 389

port-hm

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-hm and port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-hm-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-hm-disable and port-hm are mutually exclusive

prompt-pw-change-before-exp

Description Prompt user to change password before expiration in N days. This option only takes effect when server type is AD (Prompt user to change password before expiration in N days, default is not to prompt the user)

Type: number

Range: 1-999

protocol

Description 'ldap': Use LDAP (default); 'ldaps': Use LDAP over SSL; 'starttls': Use LDAP StartTLS;

Type: string

Supported Values: ldap, ldaps, starttls

Default: ldap

pwdmaxage

Description Specify the LDAP server's default password expiration time (in seconds) (The LDAP server's default password expiration time (in seconds), default is 0 (no expiration))

Type: number

Range: 0-4294967295

Default: 0

sampling-enable

Type: List

secret-string

Description secret password

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

timeout

Description Specify timout for LDAP, default is 10 seconds (The timeout, default is 10 seconds)

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'admin-bind-success': Admin Bind Success; 'admin-bind-failure': Admin Bind Failure; 'bind-success': User Bind Success; 'bind-failure': User Bind Failure; 'search-success': Search Success; 'search-failure': Search Failure; 'authorize-success': Authorization Success; 'authorize-failure': Authorization Failure; 'timeout-error': Timeout; 'other-error': Other Error; 'request': Request; 'ssl-session-created': TLS/SSL Session Created; 'ssl-session-failure': TLS/SSL Session Failure; 'pw_expiry': Password expiry; 'pw_change_success': Password change success; 'pw_change_failure': Password change failure;

Type: string

Supported Values: all, admin-bind-success, admin-bind-failure, bind-success, bind-failure, search-success, search-failure, authorize-success, authorize-failure, timeout-error, other-error, request, ssl-session-created, ssl-session-failure, pw_expiry, pw_change_success, pw_change_failure

derive-bind-dn

Specification	Value
Type	*object*

username-attr

Description Specify attribute name of username

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

host

Specification	Value
Type	*object*

hostip

Description Server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

2.1.81 aam authentication server ldap instance stats

Statistics for the object instance

instance Specification

Parameter	Value
Type	*Collection*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/server/ldap/instance/{name}
Element Name	instance
Element URI	/axapi/v3/aam/authentication/server/ldap/instance/{name}/stats
Element Attributes	instance_attributes
Partition Visibility	None
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/ldap/instance/{name}

instance attributes

Create List

POST

/axapi/v3/aam/authentication/server/ldap/instance/{name}

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/server/ldap/instance/{name}/stats

instance attributes

Get List

GET

/axapi/v3/aam/authentication/server/ldap/instance/{name}

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/server/ldap/instance/{name}/stats

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/ldap/instance/{name}/stats

instance attributes

Replace List

PUT

/axapi/v3/aam/authentication/server/ldap/instance/{name}

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/server/ldap/instance/{name}/stats

instance attributes

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

name

Description Specify LDAP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

admin-bind-failure

Description Admin Bind Failure

Type: number

Format: counter

admin-bind-success

Description Admin Bind Success

Type: number

Format: counter

authorize-failure

Description Authorization Failure

Type: number

Format: counter

authorize-success

Description Authorization Success

Type: number

Format: counter

bind-failure

Description User Bind Failure

Type: number

Format: counter

bind-success

Description User Bind Success

Type: number

Format: counter

other-error

Description Other Error

Type: number

Format: counter

pw_change_failure

Description Password change failure

Type: number

Format: counter

pw_change_success

Description Password change success

Type: number

Format: counter

pw_expiry

Description Password expiry

Type: number

Format: counter

request

Description Request

Type: number

Format: counter

search-failure

Description Search Failure

Type: number

Format: counter

search-success

Description Search Success

Type: number

Format: counter

ssl-session-created

Description TLS/SSL Session Created

Type: number

Format: counter

ssl-session-failure

Description TLS/SSL Session Failure

Type: number

Format: counter

timeout-error

Description Timeout

Type: number

Format: counter

2.1.82 aam authentication server ldap oper

Operational Status for the object ldap

ldap Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ldap
Element URI	/axapi/v3/aam/authentication/server/ldap/oper
Element Attributes	ldap_attributes
Partition Visibility	None
Schema	`ldap schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/ldap/oper

ldap attributes

Get Object

GET

/axapi/v3/aam/authentication/server/ldap/oper

ldap attributes

Modify Object

POST

/axapi/v3/aam/authentication/server/ldap/oper

ldap attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/ldap/oper

ldap attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/server/ldap/oper

ldap attributes

ldap attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

ldaps-server-list

Type: List

oper_ldaps-server-list

Specification	Value
Type	*list*
Block object keys	

ldap-uri

Description

Type: string

ldaps-idle-conn-fd-list

Description

Type: string

ldaps-idle-conn-num

Description

Type: number

ldaps-inuse-conn-fd-list

Description

Type: string

ldaps-inuse-conn-num

Description

Type: number

2.1.83 aam authentication server ldap stats

Statistics for the object ldap

ldap Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ldap
Element URI	/axapi/v3/aam/authentication/server/ldap/stats
Element Attributes	ldap_attributes
Partition Visibility	None
Schema	`ldap schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/ldap/stats

ldap attributes

Get Object

GET

/axapi/v3/aam/authentication/server/ldap/stats

ldap attributes

Modify Object

POST

/axapi/v3/aam/authentication/server/ldap/stats

ldap attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/ldap/stats

ldap attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/server/ldap/stats

ldap attributes

ldap attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/ldap/instance/{name}*

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

admin-bind-failure

Description Total Admin Bind Failure

Type: number

Format: counter

admin-bind-success

Description Total Admin Bind Success

Type: number

Format: counter

authorize-failure

Description Total Authorization Failure

Type: number

Format: counter

authorize-success

Description Total Authorization Success

Type: number

Format: counter

bind-failure

Description Total User Bind Failure

Type: number

Format: counter

bind-success

Description Total User Bind Success

Type: number

Format: counter

job-start-error

Description Total Job Start Error

Type: number

Format: counter

ldaps-idle-conn-num

Description LDAPS Idle Connection Number

Type: number

Format: counter

ldaps-inuse-conn-num

Description LDAPS In-use Connection Number

Type: number

Format: counter

other-error

Description Total Other Error

Type: number

Format: counter

polling-control-error

Description Total Polling Control Error

Type: number

Format: counter

pw-change-failure

Description Total password change failure

Type: number

Format: counter

pw-change-success

Description Total password change success

Type: number

Format: counter

pw-expiry

Description Total Password expiry

Type: number

Format: counter

request

Description Total Request

Type: number

Format: counter

request-dropped

Description Total Dropped Request

Type: number

Format: counter

request-normal

Description Total Normal Request

Type: number

Format: counter

response-error

Description Total Error Response

Type: number

Format: counter

response-failure

Description Total Failure Response

Type: number

Format: counter

response-other

Description Total Other Response

Type: number

Format: counter

response-success

Description Total Success Response

Type: number

Format: counter

response-timeout

Description Total Timeout Response

Type: number

Format: counter

search-failure

Description Total Search Failure

Type: number

Format: counter

search-success

Description Total Search Success

Type: number

Format: counter

ssl-session-created

Description TLS/SSL Session Created

Type: number

Format: counter

ssl-session-failure

Description TLS/SSL Session Failure

Type: number

Format: counter

timeout-error

Description Total Timeout

Type: number

Format: counter

instance-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify LDAP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *instance-list_stats*

Type: Object

instance-list_stats

Specification	Value
Type	*object*

admin-bind-failure

Description Admin Bind Failure

Type: number

Format: counter

admin-bind-success

Description Admin Bind Success

Type: number

Format: counter

authorize-failure

Description Authorization Failure

Type: number

Format: counter

authorize-success

Description Authorization Success

Type: number

Format: counter

bind-failure

Description User Bind Failure

Type: number

Format: counter

bind-success

Description User Bind Success

Type: number

Format: counter

other-error

Description Other Error

Type: number

Format: counter

pw_change_failure

Description Password change failure

Type: number

Format: counter

pw_change_success

Description Password change success

Type: number

Format: counter

pw_expiry

Description Password expiry

Type: number

Format: counter

request

Description Request

Type: number

Format: counter

search-failure

Description Search Failure

Type: number

Format: counter

search-success

Description Search Success

Type: number

Format: counter

ssl-session-created

Description TLS/SSL Session Created

Type: number

Format: counter

ssl-session-failure

Description TLS/SSL Session Failure

Type: number

Format: counter

timeout-error

Description Timeout

Type: number

Format: counter

2.1.84 aam authentication server ocsp

OCSP Authentication Server

ocsp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ocsp
Element URI	/axapi/v3/aam/authentication/server/ocsp
Element Attributes	ocsp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/server/ocsp/stats
Operational Data URI	/axapi/v3/aam/authentication/server/ocsp/oper
Schema	`ocsp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/ocsp

ocsp attributes

```
POST /axapi/v3/aam/authentication/server/ocsp
Payload:
{
    "ocsp": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/server/ocsp

ocsp attributes

```
GET /axapi/v3/aam/authentication/server/ocsp
Reponse:
{
    "ocsp": {
        "uuid": "5605f25c-086a-11f0-b2f1-51c757813e60",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/aam/authentication/server/ocsp"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/server/ocsp

ocsp attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/ocsp

ocsp attributes

```
PUT /axapi/v3/aam/authentication/server/ocsp
Payload:
{
    "ocsp": {
        "sampling-enable": [
            {
                "counters1": "stapling-certificate-good"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/server/ocsp

ocsp attributes

```
DELETE /axapi/v3/aam/authentication/server/ocsp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ocsp attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/ocsp/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'stapling-certificate-good': Total OCSP Stapling Good Certificate Response; 'stapling-certificate-revoked': Total OCSP Stapling Revoked Certificate Response; 'stapling-certificate-unknown': Total OCSP Stapling Unknown Certificate Response; 'stapling-request-normal': Total OSCP Stapling Normal Request; 'stapling-request-dropped': Total OCSP Stapling Dropped Request; 'stapling-response-success': Total OCSP Stapling Success Response; 'stapling-response-failure': Total OCSP Stapling Failure Response; 'stapling-response-error': Total OCSP Stapling Error Response; 'stapling-response-timeout': Total OCSP Stapling Timeout Response; 'stapling-response-other': Total OCSP Stapling Other Response; 'request-normal': Total OSCP Normal Request; 'request-dropped': Total OCSP Dropped Request; 'response-success': Total OCSP Success Response; 'response-failure': Total OCSP Failure Response; 'response-error': Total OCSP Error Response; 'response-timeout': Total OCSP Timeout Response; 'response-other': Total OCSP Other Response; 'job-start-error': Total OCSP Job Start Error; 'polling-control-error': Total OCSP Polling Control Error;

Type: string

Supported Values: all, stapling-certificate-good, stapling-certificate-revoked, stapling-certificate-unknown, stapling-request-normal, stapling-request-dropped, stapling-response-success, stapling-response-failure, stapling-response-error, stapling-response-timeout, stapling-response-other, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error

instance-list

Specification	Value
Type	*list*
Block object keys	

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

http-version

Description Set HTTP version (default 1.0)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Specify OCSP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-ocsp-inst-tmpl*

port-health-check

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-health-check and port-health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-health-check-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-health-check-disable and port-health-check are mutually exclusive

responder-ca

Description Specify the trusted OCSP responder's CA cert filename

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

responder-cert

Description Specify the trusted OCSP responder's cert filename

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

sampling-enable

Type: List

url

Description Specify the OCSP server's address (Format: http://host{[}:port{]}/) (The OCSP server's address(Format: http://host{[}:port{]}/))

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

version-type

Description '1.1': HTTP version 1.1;

Type: string

Supported Values: 1.1

instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'certificate-good': Good Certificate Response; 'certificate-revoked': Revoked Certificate Response; 'certificate-unknown': Unknown Certificate Response; 'timeout': Timeout; 'fail': Handle OCSP response failed; 'stapling-request': OCSP Stapling Request Send; 'stapling-certificate-good': OCSP Stapling Good Certificate Response; 'stapling-certificate-revoked': OCSP Stapling Revoked Certificate Response; 'stapling-certificate-unknown': OCSP Stapling Unknown Certificate Response; 'stapling-timeout': OCSP Stapling Timeout; 'stapling-fail': Handle OCSP response failed;

Type: string

Supported Values: all, request, certificate-good, certificate-revoked, certificate-unknown, timeout, fail, stapling-request, stapling-certificate-good, stapling-certificate-revoked, stapling-certificate-unknown, stapling-timeout, stapling-fail

2.1.85 aam authentication server ocsp instance

Specify OCSP authentication server name

instance Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/server/ocsp/instance
Element Name	instance
Element URI	/axapi/v3/aam/authentication/server/ocsp/instance/{name}
Element Attributes	instance_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/server/ocsp/instance/{name}/stats
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/ocsp/instance

instance attributes

```
POST /axapi/v3/aam/authentication/server/ocsp/instance/
```

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```
Payload:
{
    "instance": {
        "name": "a",
        "url": "http://a/"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/server/ocsp/instance

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/server/ocsp/instance/{name}

instance attributes

```
GET /axapi/v3/aam/authentication/server/ocsp/instance/a
Reponse:
{
    "instance": {
        "name": "a",
        "url": "http://a/",
        "health-check": 0,
        "port-health-check-disable": 0,
        "http-version": 0,
        "uuid": "c394a3c2-0879-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/server/ocsp/instance/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/server/ocsp/instance

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/server/ocsp/instance/{name}

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/ocsp/instance/{name}

instance attributes

```
PUT /axapi/v3/aam/authentication/server/ocsp/instance/a
Payload:
{
    "instance": {
        "name": "a",
        "url": "http://ab/"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/server/ocsp/instance

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/server/ocsp/instance/{name}

instance attributes

```
DELETE /axapi/v3/aam/authentication/server/ocsp/instance/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

http-version

Description Set HTTP version (default 1.0)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Specify OCSP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-ocsp-inst-tmpl*

port-health-check

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-health-check and port-health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-health-check-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-health-check-disable and port-health-check are mutually exclusive

responder-ca

Description Specify the trusted OCSP responder's CA cert filename

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

responder-cert

Description Specify the trusted OCSP responder's cert filename

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

sampling-enable

Type: List

url

Description Specify the OCSP server's address (Format: http://host{[}:port{]}/) (The OCSP server's address(Format: http://host{[}:port{]}/))

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

version-type

Description '1.1': HTTP version 1.1;

Type: string

Supported Values: 1.1

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request': Request; 'certificate-good': Good Certificate Response; 'certificate-revoked': Revoked Certificate Response; 'certificate-unknown': Unknown Certificate Response; 'timeout': Timeout; 'fail': Handle OCSP response failed; 'stapling-request': OCSP Stapling Request Send; 'stapling-certificate-good': OCSP Stapling Good Certificate Response; 'stapling-certificate-revoked': OCSP Stapling Revoked Certificate Response; 'stapling-certificate-unknown': OCSP Stapling Unknown Certificate Response; 'stapling-timeout': OCSP Stapling Timeout; 'stapling-fail': Handle OCSP response failed;

Type: string

Supported Values: all, request, certificate-good, certificate-revoked, certificate-unknown, timeout, fail, stapling-request, stapling-certificate-good, stapling-certificate-revoked, stapling-certificate-unknown, stapling-timeout, stapling-fail

2.1.86 aam authentication server ocsp instance stats

Statistics for the object instance

instance Specification

Parameter	Value
Type	*Collection*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/server/ocsp/instance/{name}
Element Name	instance
Element URI	/axapi/v3/aam/authentication/server/ocsp/instance/{name}/stats
Element Attributes	instance_attributes
Partition Visibility	None
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/ocsp/instance/{name}

instance attributes

Create List

POST

/axapi/v3/aam/authentication/server/ocsp/instance/{name}

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/server/ocsp/instance/{name}/stats

instance attributes

Get List

GET

/axapi/v3/aam/authentication/server/ocsp/instance/{name}

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/server/ocsp/instance/{name}/stats

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/ocsp/instance/{name}/stats

instance attributes

Replace List

PUT

/axapi/v3/aam/authentication/server/ocsp/instance/{name}

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/server/ocsp/instance/{name}/stats

instance attributes

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

name

Description Specify OCSP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

certificate-good

Description Good Certificate Response

Type: number

Format: counter

certificate-revoked

Description Revoked Certificate Response

Type: number

Format: counter

certificate-unknown

Description Unknown Certificate Response

Type: number

Format: counter

fail

Description Handle OCSP response failed

Type: number

Format: counter

request

Description Request

Type: number

Format: counter

stapling-certificate-good

Description OCSP Stapling Good Certificate Response

Type: number

Format: counter

stapling-certificate-revoked

Description OCSP Stapling Revoked Certificate Response

Type: number

Format: counter

stapling-certificate-unknown

Description OCSP Stapling Unknown Certificate Response

Type: number

Format: counter

stapling-fail

Description Handle OCSP response failed

Type: number

Format: counter

stapling-request

Description OCSP Stapling Request Send

Type: number

Format: counter

stapling-timeout

Description OCSP Stapling Timeout

Type: number

Format: counter

timeout

Description Timeout

Type: number

Format: counter

2.1.87 aam authentication server ocsp oper

Operational Status for the object ocsp

ocsp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ocsp
Element URI	/axapi/v3/aam/authentication/server/ocsp/oper
Element Attributes	ocsp_attributes
Partition Visibility	None
Schema	`ocsp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/ocsp/oper

ocsp attributes

Get Object

GET

/axapi/v3/aam/authentication/server/ocsp/oper

ocsp attributes

Modify Object

POST

/axapi/v3/aam/authentication/server/ocsp/oper

ocsp attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/ocsp/oper

ocsp attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/server/ocsp/oper

ocsp attributes

ocsp attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

name

Description

Type: string

stats-clear-type

Description

Type: string

Supported Values: ocsp, ocsp-stapling

2.1.88 aam authentication server ocsp stats

Statistics for the object ocsp

ocsp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ocsp
Element URI	/axapi/v3/aam/authentication/server/ocsp/stats
Element Attributes	ocsp_attributes
Partition Visibility	None
Schema	`ocsp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/ocsp/stats

ocsp attributes

Get Object

GET

/axapi/v3/aam/authentication/server/ocsp/stats

ocsp attributes

Modify Object

POST

/axapi/v3/aam/authentication/server/ocsp/stats

ocsp attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/ocsp/stats

ocsp attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/server/ocsp/stats

ocsp attributes

ocsp attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/ocsp/instance/{name}*

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

job-start-error

Description Total OCSP Job Start Error

Type: number

Format: counter

polling-control-error

Description Total OCSP Polling Control Error

Type: number

Format: counter

request-dropped

Description Total OCSP Dropped Request

Type: number

Format: counter

request-normal

Description Total OSCP Normal Request

Type: number

Format: counter

response-error

Description Total OCSP Error Response

Type: number

Format: counter

response-failure

Description Total OCSP Failure Response

Type: number

Format: counter

response-other

Description Total OCSP Other Response

Type: number

Format: counter

response-success

Description Total OCSP Success Response

Type: number

Format: counter

response-timeout

Description Total OCSP Timeout Response

Type: number

Format: counter

stapling-certificate-good

Description Total OCSP Stapling Good Certificate Response

Type: number

Format: counter

stapling-certificate-revoked

Description Total OCSP Stapling Revoked Certificate Response

Type: number

Format: counter

stapling-certificate-unknown

Description Total OCSP Stapling Unknown Certificate Response

Type: number

Format: counter

stapling-request-dropped

Description Total OCSP Stapling Dropped Request

Type: number

Format: counter

stapling-request-normal

Description Total OSCP Stapling Normal Request

Type: number

Format: counter

stapling-response-error

Description Total OCSP Stapling Error Response

Type: number

Format: counter

stapling-response-failure

Description Total OCSP Stapling Failure Response

Type: number

Format: counter

stapling-response-other

Description Total OCSP Stapling Other Response

Type: number

Format: counter

stapling-response-success

Description Total OCSP Stapling Success Response

Type: number

Format: counter

stapling-response-timeout

Description Total OCSP Stapling Timeout Response

Type: number

Format: counter

instance-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify OCSP authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *instance-list_stats*

Type: Object

instance-list_stats

Specification	Value
Type	*object*

certificate-good

Description Good Certificate Response

Type: number

Format: counter

certificate-revoked

Description Revoked Certificate Response

Type: number

Format: counter

certificate-unknown

Description Unknown Certificate Response

Type: number

Format: counter

fail

Description Handle OCSP response failed

Type: number

Format: counter

request

Description Request

Type: number

Format: counter

stapling-certificate-good

Description OCSP Stapling Good Certificate Response

Type: number

Format: counter

stapling-certificate-revoked

Description OCSP Stapling Revoked Certificate Response

Type: number

Format: counter

stapling-certificate-unknown

Description OCSP Stapling Unknown Certificate Response

Type: number

Format: counter

stapling-fail

Description Handle OCSP response failed

Type: number

Format: counter

stapling-request

Description OCSP Stapling Request Send

Type: number

Format: counter

stapling-timeout

Description OCSP Stapling Timeout

Type: number

Format: counter

timeout

Description Timeout

Type: number

Format: counter

2.1.89 aam authentication server oper

Operational Status for the object server

server Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	server
Element URI	/axapi/v3/aam/authentication/server/oper
Element Attributes	server_attributes
Partition Visibility	None
Schema	`server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/oper

server attributes

Get Object

GET

/axapi/v3/aam/authentication/server/oper

server attributes

Modify Object

POST

/axapi/v3/aam/authentication/server/oper

server attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/oper

server attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/server/oper

server attributes

server attributes

ldap

Description: ldap is a **JSON Block**. Please see below for *ldap*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/ldap*

ocsp

Description: ocsp is a **JSON Block**. Please see below for *ocsp*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/ocsp*

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

windows

Description: windows is a **JSON Block**. Please see below for *windows*

Type: Object

Reference Object: */axapi/v3/aam/authentication/server/windows*

oper

Specification	Value
Type	*object*

get-count

Description

Type: string

name

Description

Type: string

part-id

Description

Type: number

rport-count

Description

Type: number

rserver-count

Description

Type: number

rserver-list

Type: List

oper_rserver-list

Specification	Value
Type	*list*
Block object keys	

hm

Description

Type: string

host

Description

Type: string

ip

Description

Type: string

max-conn

Description

Type: number

rport-list

Type: List

server-name

Description

Type: string

status

Description

Type: string

weight

Description

Type: number

oper_rserver-list_rport-list

Specification	Value
Type	*list*
Block object keys	

port

Description

Type: number

port-hm

Description

Type: string

port-max-conn

Description

Type: number

port-state

Description

Type: string

port-status

Description

Type: string

port-weight

Description

Type: number

protocol

Description

Type: string

sg-list

Type: List

oper_rserver-list_rport-list_sg-list

Specification	Value
Type	*list*
Block object keys	

sg-name

Description

Type: string

sg-state

Description

Type: string

windows

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *windows_oper*

Type: Object

windows_oper

Specification	Value
Type	*object*

name

Description

Type: string

stats-clear-type

Description

Type: string

Supported Values: windows, kerberos

ocsp

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ocsp_oper*

Type: Object

ocsp_oper

Specification	Value
Type	*object*

name

Description

Type: string

stats-clear-type

Description

Type: string

Supported Values: ocsp, ocsp-stapling

ldap

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ldap_oper*

Type: Object

ldap_oper

Specification	Value
Type	*object*

ldaps-server-list

Type: List

ldap_oper_ldaps-server-list

Specification	Value
Type	*list*
Block object keys	

ldap-uri

Description

Type: string

ldaps-idle-conn-fd-list

Description

Type: string

ldaps-idle-conn-num

Description

Type: number

ldaps-inuse-conn-fd-list

Description

Type: string

ldaps-inuse-conn-num

Description

Type: number

2.1.90 aam authentication server radius

RADIUS Authentication Server

radius Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	radius
Element URI	/axapi/v3/aam/authentication/server/radius
Element Attributes	radius_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/server/radius/stats
Schema	`radius schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/radius

radius attributes

```
POST /axapi/v3/aam/authentication/server/radius
Payload:
{
    "radius": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
```

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```
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/server/radius

radius attributes

```
GET /axapi/v3/aam/authentication/server/radius
Reponse:
{
    "radius": {
        "uuid": "5605f2fc-086a-11f0-b2f1-51c757813e60",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/aam/authentication/server/radius"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/server/radius

radius attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/radius

radius attributes

```
PUT /axapi/v3/aam/authentication/server/radius
Payload:
{
    "radius": {
        "sampling-enable": [
            {
                "counters1": "authen_success"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/server/radius

radius attributes

```
DELETE /axapi/v3/aam/authentication/server/radius
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

radius attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/radius/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'authen_success': Total Authentication Success; 'authen_failure': Total Authentication Failure; 'authorize_success': Total Authorization Success; 'authorize_failure': Total Authorization Failure; 'access_challenge': Total Access-Challenge Message Receive; 'timeout_error': Total Timeout; 'other_error': Total Other Error; 'request': Total Request; 'request-normal': Total Normal Request; 'request-dropped': Total Dropped Request; 'response-success': Total Success Response; 'response-failure': Total Failure Response; 'response-error': Total Error Response; 'response-timeout': Total Timeout Response; 'response-other': Total Other Response; 'job-start-error': Total Job Start Error; 'polling-control-error': Total Polling Control Error; 'accounting-request-sent': Accounting-Request Sent; 'accounting-success': Accounting Success; 'accounting-failure': Accounting Failure;

Type: string

Supported Values: all, authen_success, authen_failure, authorize_success, authorize_failure, access_challenge, timeout_error, other_error, request, request-normal, request-dropped, response-success, response-failure, response-error, response-timeout, response-other, job-start-error, polling-control-error, accounting-request-sent, accounting-success, accounting-failure

instance-list

Specification	Value
Type	*list*
Block object keys	

accounting-port

Description Specify the RADIUS server's accounting port, default is 1813

Type: number

Range: 1-65534

Default: 1813

acct-port-hm

Description Specify accounting port health check method

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: acct-port-hm and acct-port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

acct-port-hm-disable

Description Disable configured accounting port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: acct-port-hm-disable and acct-port-hm are mutually exclusive

auth-type

Description 'pap': PAP authentication. Default; 'mschapv2': MS-CHAPv2 authentication; 'mschapv2-pap': Use MS-CHAPv2 first. If server doesn't support it, try PAP;

Type: string

Supported Values: pap, mschapv2, mschapv2-pap

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *instance-list_host*

Type: Object

interval

Description Specify the interval time for resend the request (second), default is 3 seconds (The interval time(second), default is 3 seconds)

Type: number

Range: 1-1024

Default: 3

message-authenticator-verify-enable

Description Verify Message-Authenticator attribute

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Specify RADIUS authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-rad-inst-tmpl*

port

Description Specify the RADIUS server's authentication port, default is 1812

Type: number

Range: 1-65534

Default: 1812

port-hm

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-hm and port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-hm-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-hm-disable and port-hm are mutually exclusive

retry

Description Specify the retry number for resend the request, default is 5 (The retry number, default is 5)

Type: number

Range: 1-32

Default: 5

sampling-enable

Type: List

secret

Description Specify the RADIUS server's secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-string

Description The RADIUS server's secret

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

instance-list_host

Specification	Value
Type	*object*

hostip

Description Server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'authen_success': Authentication Success; 'authen_failure': Authentication Failure; 'authorize_success': Authorization Success; 'authorize_failure': Authorization Failure; 'access_challenge': Access-Challenge Message Receive; 'timeout_error': Timeout; 'other_error': Other Error; 'request': Request; 'accounting-request-sent': Accounting-Request Sent; 'accounting-success': Accounting Success; 'accounting-failure': Accounting Failure;

Type: string

Supported Values: all, authen_success, authen_failure, authorize_success, authorize_failure, access_challenge, timeout_error, other_error, request, accounting-request-sent, accounting-success, accounting-failure

2.1.91 aam authentication server radius instance

RADIUS Authentication Server instance

instance Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/server/radius/instance
Element Name	instance
Element URI	/axapi/v3/aam/authentication/server/radius/instance/{name}
Element Attributes	instance_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/server/radius/instance/{name}/stats
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/radius/instance

instance attributes

```
POST /axapi/v3/aam/authentication/server/radius/instance/
Payload:
{
```

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```
    "instance": {
        "name": "a",
        "host": {
            "hostip": "a"
        }
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/server/radius/instance

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/server/radius/instance/{name}

instance attributes

```
GET /axapi/v3/aam/authentication/server/radius/instance/a
Reponse:
{
    "instance": {
        "name": "a",
        "host": {
            "hostip": "a"
        },
        "secret": 0,
        "port": 1812,
        "port-hm-disable": 0,
        "interval": 3,
        "retry": 5,
        "health-check": 0,
        "accounting-port": 1813,
        "acct-port-hm-disable": 0,
        "message-authenticator-verify-enable": 0,
        "uuid": "31076570-087a-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/server/radius/instance/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/server/radius/instance

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/server/radius/instance/{name}

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/radius/instance/{name}

instance attributes

```
PUT /axapi/v3/aam/authentication/server/radius/instance/a
Payload:
{
    "instance": {
        "name": "a",
        "host": {
            "hostip": "abcd"
        }
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/server/radius/instance

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/server/radius/instance/{name}

instance attributes

```
DELETE /axapi/v3/aam/authentication/server/radius/instance/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

accounting-port

Description Specify the RADIUS server's accounting port, default is 1813

Type: number

Range: 1-65534

Default: 1813

acct-port-hm

Description Specify accounting port health check method

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: acct-port-hm and acct-port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

acct-port-hm-disable

Description Disable configured accounting port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: acct-port-hm-disable and acct-port-hm are mutually exclusive

auth-type

Description 'pap': PAP authentication. Default; 'mschapv2': MS-CHAPv2 authentication; 'mschapv2-pap': Use MS-CHAPv2 first. If server doesn't support it, try PAP;

Type: string

Supported Values: pap, mschapv2, mschapv2-pap

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *host*

Type: Object

interval

Description Specify the interval time for resend the request (second), default is 3 seconds (The interval time(second), default is 3 seconds)

Type: number

Range: 1-1024

Default: 3

message-authenticator-verify-enable

Description Verify Message-Authenticator attribute

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Specify RADIUS authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-rad-inst-tmpl*

port

Description Specify the RADIUS server's authentication port, default is 1812

Type: number

Range: 1-65534

Default: 1812

port-hm

Description Check port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: port-hm and port-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

port-hm-disable

Description Disable configured port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port-hm-disable and port-hm are mutually exclusive

retry

Description Specify the retry number for resend the request, default is 5 (The retry number, default is 5)

Type: number

Range: 1-32

Default: 5

sampling-enable

Type: List

secret

Description Specify the RADIUS server's secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-string

Description The RADIUS server's secret

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

host

Specification	Value
Type	*object*

hostip

Description Server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'authen_success': Authentication Success; 'authen_failure': Authentication Failure; 'authorize_success': Authorization Success; 'authorize_failure': Authorization Failure; 'access_challenge': Access-Challenge Message Receive; 'timeout_error': Timeout; 'other_error': Other Error; 'request': Request; 'accounting-request-sent': Accounting-Request Sent; 'accounting-success': Accounting Success; 'accounting-failure': Accounting Failure;

Type: string

Supported Values: all, authen_success, authen_failure, authorize_success, authorize_failure, access_challenge, timeout_error, other_error, request, accounting-request-sent, accounting-success, accounting-failure

2.1.92 aam authentication server radius instance stats

Statistics for the object instance

instance Specification

Parameter	Value
Type	*Collection*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/server/radius/instance/{name}
Element Name	instance
Element URI	/axapi/v3/aam/authentication/server/radius/instance/{name}/stats
Element Attributes	instance_attributes
Partition Visibility	None
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/radius/instance/{name}

instance attributes

Create List

POST

/axapi/v3/aam/authentication/server/radius/instance/{name}

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/server/radius/instance/{name}/stats

instance attributes

Get List

GET

/axapi/v3/aam/authentication/server/radius/instance/{name}

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/server/radius/instance/{name}/stats

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/radius/instance/{name}/stats

instance attributes

Replace List

PUT

/axapi/v3/aam/authentication/server/radius/instance/{name}

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/server/radius/instance/{name}/stats

instance attributes

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

name

Description Specify RADIUS authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

access_challenge

Description Access-Challenge Message Receive

Type: number

Format: counter

accounting-failure

Description Accounting Failure

Type: number

Format: counter

accounting-request-sent

Description Accounting-Request Sent

Type: number

Format: counter

accounting-success

Description Accounting Success

Type: number

Format: counter

authen_failure

Description Authentication Failure

Type: number

Format: counter

authen_success

Description Authentication Success

Type: number

Format: counter

authorize_failure

Description Authorization Failure

Type: number

Format: counter

authorize_success

Description Authorization Success

Type: number

Format: counter

other_error

Description Other Error

Type: number

Format: counter

request

Description Request

Type: number

Format: counter

timeout_error

Description Timeout

Type: number

Format: counter

2.1.93 aam authentication server radius stats

Statistics for the object radius

radius Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	radius
Element URI	/axapi/v3/aam/authentication/server/radius/stats
Element Attributes	radius_attributes
Partition Visibility	None
Schema	`radius schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/radius/stats

radius attributes

Get Object

GET

/axapi/v3/aam/authentication/server/radius/stats

radius attributes

Modify Object

POST

/axapi/v3/aam/authentication/server/radius/stats

radius attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/radius/stats

radius attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/server/radius/stats

radius attributes

radius attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/radius/instance/{name}*

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

access_challenge

Description Total Access-Challenge Message Receive

Type: number

Format: counter

accounting-failure

Description Accounting Failure

Type: number

Format: counter

accounting-request-sent

Description Accounting-Request Sent

Type: number

Format: counter

accounting-success

Description Accounting Success

Type: number

Format: counter

authen_failure

Description Total Authentication Failure

Type: number

Format: counter

authen_success

Description Total Authentication Success

Type: number

Format: counter

authorize_failure

Description Total Authorization Failure

Type: number

Format: counter

authorize_success

Description Total Authorization Success

Type: number

Format: counter

job-start-error

Description Total Job Start Error

Type: number

Format: counter

other_error

Description Total Other Error

Type: number

Format: counter

polling-control-error

Description Total Polling Control Error

Type: number

Format: counter

request

Description Total Request

Type: number

Format: counter

request-dropped

Description Total Dropped Request

Type: number

Format: counter

request-normal

Description Total Normal Request

Type: number

Format: counter

response-error

Description Total Error Response

Type: number

Format: counter

response-failure

Description Total Failure Response

Type: number

Format: counter

response-other

Description Total Other Response

Type: number

Format: counter

response-success

Description Total Success Response

Type: number

Format: counter

response-timeout

Description Total Timeout Response

Type: number

Format: counter

timeout_error

Description Total Timeout

Type: number

Format: counter

instance-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify RADIUS authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *instance-list_stats*

Type: Object

instance-list_stats

Specification	Value
Type	*object*

access_challenge

Description Access-Challenge Message Receive

Type: number

Format: counter

accounting-failure

Description Accounting Failure

Type: number

Format: counter

accounting-request-sent

Description Accounting-Request Sent

Type: number

Format: counter

accounting-success

Description Accounting Success

Type: number

Format: counter

authen_failure

Description Authentication Failure

Type: number

Format: counter

authen_success

Description Authentication Success

Type: number

Format: counter

authorize_failure

Description Authorization Failure

Type: number

Format: counter

authorize_success

Description Authorization Success

Type: number

Format: counter

other_error

Description Other Error

Type: number

Format: counter

request

Description Request

Type: number

Format: counter

timeout_error

Description Timeout

Type: number

Format: counter

2.1.94 aam authentication server windows

"Windows Server, using Kerberos or NTLM for authentication"

windows Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	windows
Element URI	/axapi/v3/aam/authentication/server/windows
Element Attributes	windows_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/server/windows/stats
Operational Data URI	/axapi/v3/aam/authentication/server/windows/oper
Schema	`windows schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/windows

windows attributes

```
POST /axapi/v3/aam/authentication/server/windows
Payload:
{
    "windows": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/aam/authentication/server/windows

windows attributes

```
GET /axapi/v3/aam/authentication/server/windows
Reponse:
{
    "windows": {
        "uuid": "5605f39c-086a-11f0-b2f1-51c757813e60",
        "sampling-enable": [
            {
```

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```
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/aam/authentication/server/windows"
    }
}
```

Modify Object

POST

/axapi/v3/aam/authentication/server/windows

windows attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/windows

windows attributes

```
PUT /axapi/v3/aam/authentication/server/windows
Payload:
{
    "windows": {
        "sampling-enable": [
            {
                "counters1": "kerberos-request-send"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/authentication/server/windows

windows attributes

```
DELETE /axapi/v3/aam/authentication/server/windows
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

windows attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/windows/instance/{name}*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'kerberos-request-send': Total Kerberos Request; 'kerberos-response-get': Total Kerberos Response; 'kerberos-timeout-error': Total Kerberos Timeout; 'kerberos-other-error': Total Kerberos Other Error; 'ntlm-authentication-success': Total NTLM Authentication Success; 'ntlm-authentication-failure': Total NTLM Authentication Failure; 'ntlm-proto-negotiation-success': Total NTLM Protocol Negotiation Success; 'ntlm-proto-negotiation-failure': Total NTLM Protocol Negotiation Failure; 'ntlm-session-setup-success': Total NTLM Session Setup Success; 'ntlm-session-setup-failed': Total NTLM Session Setup Failure; 'kerberos-request-normal': Total Kerberos Normal Request; 'kerberos-request-dropped': Total Kerberos Dropped Request; 'kerberos-response-success': Total Kerberos Success Response; 'kerberos-response-failure': Total Kerberos Failure Response; 'kerberos-response-error': Total Kerberos Error Response; 'kerberos-response-timeout': Total Kerberos Timeout Response; 'kerberos-response-other': Total Kerberos Other Response; 'kerberos-job-start-error': Total Kerberos Job Start Error; 'kerberos-polling-control-error': Total Kerberos Polling Control Error; 'ntlm-prepare-req-success': Total NTLM Prepare Request Success; 'ntlm-prepare-req-failed': Total NTLM Prepare Request Failed; 'ntlm-timeout-error': Total NTLM Timeout; 'ntlm-other-error': Total NTLM Other Error; 'ntlm-request-normal': Total NTLM Normal Request; 'ntlm-request-dropped': Total NTLM Dropped Request; 'ntlm-response-success': Total NTLM Success Response; 'ntlm-response-failure': Total NTLM Failure Response; 'ntlm-response-error': Total NTLM Error Response; 'ntlm-response-timeout': Total NTLM Timeout Response; 'ntlm-response-other': Total NTLM Other Response; 'ntlm-job-start-error': Total NTLM Job Start Error; 'ntlm-polling-control-error': Total NTLM Polling Control Error; 'kerberos-pw-expiry': Total Kerberos password expiry; 'kerberos-pw-change-success': Total Kerberos password change success; 'kerberos-pw-change-failure': Total Kerberos password change failure; 'kerberos-validate-kdc-success': Total Kerberos KDC Validation Success; 'kerberos-validate-kdc-failure': Total Kerberos KDC Validation Failure; 'kerberos-generate-kdc-keytab-success': Total Kerberos KDC Keytab Generation Success; 'kerberos-generate-kdc-keytab-failure': Total Kerberos KDC Keytab Generation Fail-

ure; 'kerberos-delete-kdc-keytab-success': Total Kerberos KDC Keytab Deletion Success; 'kerberos-delete-kdc-keytab-failure': Total Kerberos KDC Keytab Deletion Failure; 'kerberos-kdc-keytab-count': Current Kerberos KDC Keytab Count;

Type: string

Supported Values: all, kerberos-request-send, kerberos-response-get, kerberos-timeout-error, kerberos-other-error, kerberos-request-normal, kerberos-request-dropped, kerberos-response-success, kerberos-response-failure, kerberos-response-error, kerberos-response-timeout, kerberos-response-other, kerberos-job-start-error, kerberos-polling-control-error, kerberos-pw-expiry, kerberos-pw-change-success, kerberos-pw-change-failure, kerberos-validate-kdc-success, kerberos-validate-kdc-failure, kerberos-generate-kdc-keytab-success, kerberos-generate-kdc-keytab-failure, kerberos-delete-kdc-keytab-success, kerberos-delete-kdc-keytab-failure, kerberos-kdc-keytab-count

instance-list

Specification	Value
Type	*list*
Block object keys	

auth-protocol

Description: auth-protocol is a **JSON Block**. Please see below for *instance-list_auth-protocol*

Type: Object

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *instance-list_host*

Type: Object

name

Description Specify Windows authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-win-inst-tmpl*

realm

Description Specify realm of Windows server

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

support-apacheds-kdc

Description Enable weak cipher (DES CRC/MD5/MD4) and merge AS-REQ in single packet

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Specify connection timeout to server, default is 10 seconds

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

instance-list_host

Specification	Value
Type	*object*

hostip

Description Specify the Windows server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Specify the Windows server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

instance-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'krb_send_req_success': Kerberos Request; 'krb_get_resp_success': Kerberos Response; 'krb_timeout_error': Kerberos Timeout; 'krb_other_error': Kerberos Other Error; 'krb_pw_expiry': Kerberos password expiry; 'krb_pw_change_success': Kerberos password change success; 'krb_pw_change_failure': Kerberos password change failure; 'ntlm_proto_nego_success': NTLM Protocol Negotiation Success; 'ntlm_proto_nego_failure': NTLM Protocol Negotiation Failure; 'ntlm_session_setup_success': NTLM Session Setup Success; 'ntlm_session_setup_failure': NTLM Session Setup Failure; 'ntlm_prepare_req_success': NTLM Prepare Request Success; 'ntlm_prepare_req_error': NTLM Prepare Request Error; 'ntlm_auth_success': NTLM Authentication Success; 'ntlm_auth_failure': NTLM Authentication Failure; 'ntlm_timeout_error': NTLM Timeout; 'ntlm_other_error': NTLM Other Error; 'krb_validate_kdc_success': Kerberos KDC Validation Success; 'krb_validate_kdc_failure': Kerberos KDC Validation Failure;

Type: string

Supported Values: all, krb_send_req_success, krb_get_resp_success, krb_timeout_error, krb_other_error, krb_pw_expiry, krb_pw_change_success, krb_pw_change_failure, krb_validate_kdc_success, krb_validate_kdc_failure

instance-list_auth-protocol

Specification	Value
Type	*object*

kdc-validate

Description Enable KDC validation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

kerberos-kdc-validation

Description: kerberos-kdc-validation is a **JSON Block**. Please see below for *instance-list_auth-protocol_kerberos-kdc-validation*

Type: Object

kerberos-password-change-port

Description Specify the Kerbros password change port, default is 464

Type: number

Range: 1-65534

Default: 464

kerberos-port

Description Specify the Kerberos port, default is 88

Type: number

Range: 1-65534

Default: 88

kport-hm

Description Check Kerberos port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: kport-hm and kport-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

kport-hm-disable

Description Disable configured Kerberos port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: kport-hm-disable and kport-hm are mutually exclusive

instance-list_auth-protocol_kerberos-kdc-validation

Specification	Value
Type	*object*

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.)

kdc-account

Description Specify account for KDC validation

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

kdc-password

Description Specify account password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

kdc-pwd

Description Account password

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

kdc-spn

Description Specify SPN for KDC validation

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.1.95 aam authentication server windows instance

"Windows Server, using Kerberos or NTLM for authentication"

instance Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/server/windows/instance
Element Name	instance
Element URI	/axapi/v3/aam/authentication/server/windows/instance/{name}
Element Attributes	instance_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/server/windows/instance/{name}/stats
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/windows/instance

instance attributes

```
POST /axapi/v3/aam/authentication/server/windows/instance/
Payload:
{
    "instance": {
        "name": "a",
        "host": {
            "hostip": "a"
        }
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/server/windows/instance

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/server/windows/instance/{name}

instance attributes

```
GET /axapi/v3/aam/authentication/server/windows/instance/a
Reponse:
{
    "instance": {
        "name": "a",
        "host": {
            "hostip": "a"
        },
        "timeout": 10,
        "auth-protocol": {
            "kerberos-port": 88,
            "kport-hm-disable": 0,
            "kerberos-password-change-port": 464,
            "kdc-validate": 0
        },
        "support-apacheds-kdc": 0,
        "health-check": 0,
        "uuid": "c1c0dd30-087a-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/aam/authentication/server/windows/instance/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/server/windows/instance

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/server/windows/instance/{name}

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/windows/instance/{name}

instance attributes

```
PUT /axapi/v3/aam/authentication/server/windows/instance/a
Payload:
{
    "instance": {
        "name": "a",
        "host": {
            "hostip": "abcd"
        }
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/server/windows/instance

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/server/windows/instance/{name}

instance attributes

```
DELETE /axapi/v3/aam/authentication/server/windows/instance/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

auth-protocol

Description: auth-protocol is a **JSON Block**. Please see below for *auth-protocol*

Type: Object

health-check

Description Check server's health status

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-string

Description Health monitor name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

host

Description: host is a **JSON Block**. Please see below for *host*

Type: Object

name

Description Specify Windows authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-server-win-inst-tmpl*

realm

Description Specify realm of Windows server

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

support-apacheds-kdc

Description Enable weak cipher (DES CRC/MD5/MD4) and merge AS-REQ in single packet

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Specify connection timeout to server, default is 10 seconds

Type: number

Range: 1-255

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

host

Specification	Value
Type	*object*

hostip

Description Specify the Windows server's hostname(Length 1-31) or IP address

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: hostip and hostipv6 are mutually exclusive

hostipv6

Description Specify the Windows server's IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: hostipv6 and hostip are mutually exclusive

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'krb_send_req_success': Kerberos Request; 'krb_get_resp_success': Kerberos Response; 'krb_timeout_error': Kerberos Timeout; 'krb_other_error': Kerberos Other Error; 'krb_pw_expiry': Kerberos password expiry; 'krb_pw_change_success': Kerberos password change success; 'krb_pw_change_failure': Kerberos password change failure; 'ntlm_proto_nego_success': NTLM Protocol Negotiation Success; 'ntlm_proto_nego_failure': NTLM Protocol Negotiation Failure; 'ntlm_session_setup_success': NTLM Session Setup Success; 'ntlm_session_setup_failure': NTLM Session Setup Failure; 'ntlm_prepare_req_success': NTLM Prepare Request Success; 'ntlm_prepare_req_error': NTLM Prepare Request Error; 'ntlm_auth_success': NTLM Authentication Success; 'ntlm_auth_failure': NTLM Authentication Failure; 'ntlm_timeout_error': NTLM Timeout; 'ntlm_other_error': NTLM Other Error; 'krb_validate_kdc_success': Kerberos KDC Validation Success; 'krb_validate_kdc_failure': Kerberos KDC Validation Failure;

Type: string

Supported Values: all, krb_send_req_success, krb_get_resp_success, krb_timeout_error, krb_other_error, krb_pw_expiry, krb_pw_change_success, krb_pw_change_failure, krb_validate_kdc_success, krb_validate_kdc_failure

auth-protocol

Specification	Value
Type	*object*

kdc-validate

Description Enable KDC validation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

kerberos-kdc-validation

Description: kerberos-kdc-validation is a **JSON Block**. Please see below for *auth-protocol_kerberos-kdc-validation*

Type: Object

kerberos-password-change-port

Description Specify the Kerbros password change port, default is 464

Type: number

Range: 1-65534

Default: 464

kerberos-port

Description Specify the Kerberos port, default is 88

Type: number

Range: 1-65534

Default: 88

kport-hm

Description Check Kerberos port's health status

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: kport-hm and kport-hm-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

kport-hm-disable

Description Disable configured Kerberos port health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: kport-hm-disable and kport-hm are mutually exclusive

auth-protocol_kerberos-kdc-validation

Specification	Value
Type	*object*

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.)

kdc-account

Description Specify account for KDC validation

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

kdc-password

Description Specify account password

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

kdc-pwd

Description Account password

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

kdc-spn

Description Specify SPN for KDC validation

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.1.96 aam authentication server windows instance stats

Statistics for the object instance

instance Specification

Parameter	Value
Type	*Collection*
Collection Name	*instance-list*
Collection URI	/axapi/v3/aam/authentication/server/windows/instance/{name}
Element Name	instance
Element URI	/axapi/v3/aam/authentication/server/windows/instance/{name}/stats
Element Attributes	instance_attributes
Partition Visibility	None
Schema	`instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/windows/instance/{name}

instance attributes

Create List

POST

/axapi/v3/aam/authentication/server/windows/instance/{name}

instance attributes

Get Object

GET

/axapi/v3/aam/authentication/server/windows/instance/{name}/stats

instance attributes

Get List

GET

/axapi/v3/aam/authentication/server/windows/instance/{name}

instance-list

Modify Object

POST

/axapi/v3/aam/authentication/server/windows/instance/{name}/stats

instance attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/windows/instance/{name}/stats

instance attributes

Replace List

PUT

/axapi/v3/aam/authentication/server/windows/instance/{name}

instance-list

Delete Object

DELETE

/axapi/v3/aam/authentication/server/windows/instance/{name}/stats

instance attributes

instance-list

instance-list is **JSON List** of *instance attributes*

instance-list : [

{ *instance attributes* },

{ *instance attributes* },

...

]

instance attributes

name

Description Specify Windows authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

krb_get_resp_success

Description Kerberos Response

Type: number

Format: counter

krb_other_error

Description Kerberos Other Error

Type: number

Format: counter

krb_pw_change_failure

Description Kerberos password change failure

Type: number

Format: counter

krb_pw_change_success

Description Kerberos password change success

Type: number

Format: counter

krb_pw_expiry

Description Kerberos password expiry

Type: number

Format: counter

krb_send_req_success

Description Kerberos Request

Type: number

Format: counter

krb_timeout_error

Description Kerberos Timeout

Type: number

Format: counter

krb_validate_kdc_failure

Description Kerberos KDC Validation Failure

Type: number

Format: counter

krb_validate_kdc_success

Description Kerberos KDC Validation Success

Type: number

Format: counter

2.1.97 aam authentication server windows oper

Operational Status for the object windows

windows Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	windows
Element URI	/axapi/v3/aam/authentication/server/windows/oper
Element Attributes	windows_attributes
Partition Visibility	None
Schema	`windows schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/windows/oper

windows attributes

Get Object

GET

/axapi/v3/aam/authentication/server/windows/oper

windows attributes

Modify Object

POST

/axapi/v3/aam/authentication/server/windows/oper

windows attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/windows/oper

windows attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/server/windows/oper

windows attributes

windows attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

name

Description

Type: string

stats-clear-type

Description

Type: string

Supported Values: windows, kerberos

2.1.98 aam authentication server windows stats

Statistics for the object windows

windows Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	windows
Element URI	/axapi/v3/aam/authentication/server/windows/stats
Element Attributes	windows_attributes
Partition Visibility	None
Schema	`windows schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/server/windows/stats

windows attributes

Get Object

GET

/axapi/v3/aam/authentication/server/windows/stats

windows attributes

Modify Object

POST

/axapi/v3/aam/authentication/server/windows/stats

windows attributes

Replace Object

PUT

/axapi/v3/aam/authentication/server/windows/stats

windows attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/server/windows/stats

windows attributes

windows attributes

instance-list

Type: List

Reference Object: */axapi/v3/aam/authentication/server/windows/instance/{name}*

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

kerberos-delete-kdc-keytab-failure

Description Total Kerberos KDC Keytab Deletion Failure

Type: number

Format: counter

kerberos-delete-kdc-keytab-success

Description Total Kerberos KDC Keytab Deletion Success

Type: number

Format: counter

kerberos-generate-kdc-keytab-failure

Description Total Kerberos KDC Keytab Generation Failure

Type: number

Format: counter

kerberos-generate-kdc-keytab-success

Description Total Kerberos KDC Keytab Generation Success

Type: number

Format: counter

kerberos-job-start-error

Description Total Kerberos Job Start Error

Type: number

Format: counter

kerberos-kdc-keytab-count

Description Current Kerberos KDC Keytab Count

Type: number

Format: counter

kerberos-other-error

Description Total Kerberos Other Error

Type: number

Format: counter

kerberos-polling-control-error

Description Total Kerberos Polling Control Error

Type: number

Format: counter

kerberos-pw-change-failure

Description Total Kerberos password change failure

Type: number

Format: counter

kerberos-pw-change-success

Description Total Kerberos password change success

Type: number

Format: counter

kerberos-pw-expiry

Description Total Kerberos password expiry

Type: number

Format: counter

kerberos-request-dropped

Description Total Kerberos Dropped Request

Type: number

Format: counter

kerberos-request-normal

Description Total Kerberos Normal Request

Type: number

Format: counter

kerberos-request-send

Description Total Kerberos Request

Type: number

Format: counter

kerberos-response-error

Description Total Kerberos Error Response

Type: number

Format: counter

kerberos-response-failure

Description Total Kerberos Failure Response

Type: number

Format: counter

kerberos-response-get

Description Total Kerberos Response

Type: number

Format: counter

kerberos-response-other

Description Total Kerberos Other Response

Type: number

Format: counter

kerberos-response-success

Description Total Kerberos Success Response

Type: number

Format: counter

kerberos-response-timeout

Description Total Kerberos Timeout Response

Type: number

Format: counter

kerberos-timeout-error

Description Total Kerberos Timeout

Type: number

Format: counter

kerberos-validate-kdc-failure

Description Total Kerberos KDC Validation Failure

Type: number

Format: counter

kerberos-validate-kdc-success

Description Total Kerberos KDC Validation Success

Type: number

Format: counter

instance-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify Windows authentication server name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *instance-list_stats*

Type: Object

instance-list_stats

Specification	Value
Type	*object*

krb_get_resp_success

Description Kerberos Response

Type: number

Format: counter

krb_other_error

Description Kerberos Other Error

Type: number

Format: counter

krb_pw_change_failure

Description Kerberos password change failure

Type: number

Format: counter

krb_pw_change_success

Description Kerberos password change success

Type: number

Format: counter

krb_pw_expiry

Description Kerberos password expiry

Type: number

Format: counter

krb_send_req_success

Description Kerberos Request

Type: number

Format: counter

krb_timeout_error

Description Kerberos Timeout

Type: number

Format: counter

krb_validate_kdc_failure

Description Kerberos KDC Validation Failure

Type: number

Format: counter

krb_validate_kdc_success

Description Kerberos KDC Validation Success

Type: number

Format: counter

2.1.99 aam authentication service-group

Authentication service group

service-group Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*service-group-list*
Collection URI	/axapi/v3/aam/authentication/service-group
Element Name	service-group
Element URI	/axapi/v3/aam/authentication/service-group/{name}
Element Attributes	service-group_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/service-group/{name}/stats
Operational Data URI	/axapi/v3/aam/authentication/service-group/{name}/oper
Schema	`service-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/service-group

service-group attributes

```
POST /axapi/v3/aam/authentication/service-group/
Payload:
{
    "service-group": {
        "protocol": "tcp",
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/service-group

service-group attributes

Get Object

GET

/axapi/v3/aam/authentication/service-group/{name}

service-group attributes

```
GET /axapi/v3/aam/authentication/service-group/a
Reponse:
{
    "service-group": {
        "name": "a",
        "protocol": "tcp",
        "health-check-disable": 0,
        "uuid": "2241baa8-087b-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authentication/service-group/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/service-group

service-group-list

Modify Object

POST

/axapi/v3/aam/authentication/service-group/{name}

service-group attributes

Replace Object

PUT

/axapi/v3/aam/authentication/service-group/{name}

service-group attributes

```
PUT /axapi/v3/aam/authentication/service-group/a
Payload:
{
    "service-group": {
        "protocol": "tcp",
        "name": "a",
        "user-tag": "abcd"
```

(continues on next page)

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```
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/service-group

service-group-list

Delete Object

DELETE

/axapi/v3/aam/authentication/service-group/{name}

service-group attributes

```
DELETE /axapi/v3/aam/authentication/service-group/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

service-group-list

service-group-list is **JSON List** of *service-group attributes*

service-group-list : [

{ *service-group attributes* },

{ *service-group attributes* },

...

]

service-group attributes

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable health check

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

lb-method

Description 'round-robin': Round robin on server level;

Type: string

Supported Values: round-robin

member-list

Type: List

Reference Object: */axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}*

name

Description Specify AAM service group name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-service-group-tmpl*

protocol

Description 'tcp': TCP AAM service; 'udp': UDP AAM service;

Type: string

Supported Values: tcp, udp

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'server_selection_fail_drop': Drops due to Service selection failure; 'server_selection_fail_reset': Resets sent out for Service selection failure; 'service_peak_conn': Peak connection count for the Service Group; 'service_healthy_host': Service Group healthy host count; 'service_unhealthy_host': Service Group unhealthy host count; 'service_req_count': Service Group request count; 'service_resp_count': Service Group response count; 'service_resp_2xx': Service Group response 2xx count; 'service_resp_3xx': Service Group response 3xx count; 'service_resp_4xx': Service Group response 4xx count; 'service_resp_5xx': Service Group response 5xx count; 'service_curr_conn_overflow': Current connection counter overflow count;

Type: string

Supported Values: all, server_selection_fail_drop, server_selection_fail_reset, service_peak_conn, service_healthy_host, service_unhealthy_host, service_req_count, service_resp_count, service_resp_2xx, service_resp_3xx, service_resp_4xx, service_resp_5xx, service_curr_conn_overflow

member-list

Specification	Value
Type	*list*
Block object keys	

member-priority

Description Priority of Port in the Group

Type: number

Range: 1-16

member-state

Description 'enable': Enable member service port; 'disable': Disable member service port;

Type: string

Supported Values: enable, disable

Default: enable

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/server/ldap*

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-service-group-mem-tmpl*

port

Description Port number

Type: number

Range: 1-65534

Default: 65534

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

member-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_fwd_bytes': Bytes processed in forward direction; 'total_fwd_pkts': Packets processed in forward direction; 'total_rev_bytes': Bytes processed in reverse direction; 'total_rev_pkts': Packets processed in reverse direction; 'total_conn': Total established connections; 'total_rev_pkts_inspected': Total reverse packets inspected; 'total_rev_pkts_inspected_status_code_2xx': Total reverse packets inspected status code 2xx; 'total_rev_pkts_inspected_status_code_non_5xx': Total reverse packets inspected status code non 5xx; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total requests successful; 'peak_conn': some help string; 'response_time': Response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time; 'curr_ssl_conn': Current SSL connections; 'total_ssl_conn': Total SSL connections; 'curr_conn_overflow': Current connection counter overflow count;

Type: string

Supported Values: all, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_conn, total_rev_pkts_inspected, total_rev_pkts_inspected_status_code_2xx, total_rev_pkts_inspected_status_code_non_5xx, curr_req, total_req, total_req_succ, peak_conn, response_time, fastest_rsp_time, slowest_rsp_time, curr_ssl_conn, total_ssl_conn, curr_conn_overflow

2.1.100 aam authentication service-group member

Authentication service group member

member Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name, port*
Collection Name	*member-list*
Collection URI	/axapi/v3/aam/authentication/service-group/{name}/member
Element Name	member
Element URI	/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}
Element Attributes	member_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}/stats
Operational Data URI	/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}/oper
Schema	`member schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/service-group/{name}/member

member attributes

Create List

POST

/axapi/v3/aam/authentication/service-group/{name}/member

member attributes

Get Object

GET

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}

member attributes

Get List

GET

/axapi/v3/aam/authentication/service-group/{name}/member

member-list

Modify Object

POST

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}

member attributes

Replace Object

PUT

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}

member attributes

Replace List

PUT

/axapi/v3/aam/authentication/service-group/{name}/member

member-list

Delete Object

DELETE

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}

member attributes

member-list

member-list is **JSON List** of *member attributes*

member-list : [

{ *member attributes* },

{ *member attributes* },

...

]

member attributes

member-priority

Description Priority of Port in the Group

Type: number

Range: 1-16

member-state

Description 'enable': Enable member service port; 'disable': Disable member service port;

Type: string

Supported Values: enable, disable

Default: enable

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/server/ldap*

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-auth-service-group-mem-tmpl*

port

Description Port number

Type: number

Range: 1-65534

Default: 65534

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_fwd_bytes': Bytes processed in forward direction; 'total_fwd_pkts': Packets processed in forward direction; 'total_rev_bytes': Bytes processed in reverse direction; 'total_rev_pkts': Packets processed in reverse direction; 'total_conn': Total established connections; 'total_rev_pkts_inspected': Total reverse packets inspected; 'total_rev_pkts_inspected_status_code_2xx': Total reverse packets inspected status code 2xx; 'total_rev_pkts_inspected_status_code_non_5xx': Total reverse packets inspected status code non 5xx; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total requests successful; 'peak_conn': some help string; 'response_time': Response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time; 'curr_ssl_conn': Current SSL connections; 'total_ssl_conn': Total SSL connections; 'curr_conn_overflow': Current connection counter overflow count;

Type: string

Supported Values: all, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_conn, total_rev_pkts_inspected, total_rev_pkts_inspected_status_code_2xx, total_rev_pkts_inspected_status_code_non_5xx, curr_req, total_req, total_req_succ, peak_conn, response_time, fastest_rsp_time, slowest_rsp_time, curr_ssl_conn, total_ssl_conn, curr_conn_overflow

2.1.101 aam authentication service-group member oper

Operational Status for the object member

member Specification

Parameter	Value
Type	*Collection*
Collection Name	*member-list*
Collection URI	/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}
Element Name	member
Element URI	/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}/oper
Element Attributes	member_attributes
Partition Visibility	None
Schema	`member schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}

member attributes

Create List

POST

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}

member attributes

Get Object

GET

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}/oper

member attributes

Get List

GET

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}

member-list

Modify Object

POST

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}/oper

member attributes

Replace Object

PUT

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}/oper

member attributes

Replace List

PUT

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}

member-list

Delete Object

DELETE

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}/oper

member attributes

member-list

member-list is **JSON List** of *member attributes*

member-list : [

{ *member attributes* },

{ *member attributes* },

...

]

member attributes

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port

Description Port number

Type: number

Range: 1-65534

Default: 65534

oper

Specification	Value
Type	*object*

alt-list

Type: List

drs-list

Type: List

hm-index

Description

Type: number

hm-key

Description

Type: number

state

Description

Type: string

Supported Values: UP, DOWN, MAINTENANCE, DIS-UP, DIS-DOWN, DIS-MAINTENANCE

oper_alt-list

Specification	Value
Type	*list*
Block object keys	

alt-curr-conn

Description

Type: number

alt-fwd-pkts

Description

Type: number

alt-name

Description

Type: string

alt-peak-conn

Description

Type: number

alt-port

Description

Type: number

alt-rev-pkts

Description

Type: number

alt-state

Description

Type: string

alt-total-conn

Description

Type: number

oper_drs-list

Specification	Value
Type	*list*
Block object keys	

drs-curr-conn

Description

Type: number

drs-curr-req

Description

Type: number

drs-frsp-time

Description

Type: number

drs-fwd-bts

Description

Type: number

drs-fwd-pkts

Description

Type: number

drs-hm-index

Description

Type: number

drs-hm-key

Description

Type: number

drs-name

Description

Type: string

drs-peak-conn

Description

Type: number

drs-pers-conn

Description

Type: number

drs-port

Description

Type: number

drs-priority

Description

Type: number

drs-rev-bts

Description

Type: number

drs-rev-pkts

Description

Type: number

drs-rsp-time

Description

Type: number

drs-srsp-time

Description

Type: number

drs-state

Description

Type: string

drs-total-conn

Description

Type: number

drs-total-req

Description

Type: number

drs-total-req-succ

Description

Type: number

2.1.102 aam authentication service-group member stats

Statistics for the object member

member Specification

Parameter	Value
Type	*Collection*
Collection Name	*member-list*
Collection URI	/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}
Element Name	member
Element URI	/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}/stats
Element Attributes	member_attributes
Partition Visibility	None
Schema	`member schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}

member attributes

Create List

POST

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}

member attributes

Get Object

GET

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}/stats

member attributes

Get List

GET

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}

member-list

Modify Object

POST

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}/stats

member attributes

Replace Object

PUT

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}/stats

member attributes

Replace List

PUT

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}

member-list

Delete Object

DELETE

/axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}/stats

member attributes

member-list

member-list is **JSON List** of *member attributes*

member-list : [

{ *member attributes* },

{ *member attributes* },

...

]

member attributes

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 63 characters

Maximum Length: 1 characters

port

Description Port number

Type: number

Range: 1-65534

Default: 65534

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

curr_conn

Description Current established connections

Type: number

Format: counter

curr_conn_overflow

Description Current connection counter overflow count

Type: number

Format: counter

curr_req

Description Current requests

Type: number

Format: counter

curr_ssl_conn

Description Current SSL connections

Type: number

Format: counter

fastest_rsp_time

Description Fastest response time

Type: number

Format: counter

peak_conn

Description some help string

Type: number

Format: counter

response_time

Description Response time

Type: number

Format: counter

slowest_rsp_time

Description Slowest response time

Type: number

Format: counter

total_conn

Description Total established connections

Type: number

Format: counter

total_fwd_bytes

Description Bytes processed in forward direction

Type: number

Format: counter

total_fwd_pkts

Description Packets processed in forward direction

Type: number

Format: counter

total_req

Description Total requests

Type: number

Format: counter

total_req_succ

Description Total requests successful

Type: number

Format: counter

total_rev_bytes

Description Bytes processed in reverse direction

Type: number

Format: counter

total_rev_pkts

Description Packets processed in reverse direction

Type: number

Format: counter

total_rev_pkts_inspected

Description Total reverse packets inspected

Type: number

Format: counter

total_rev_pkts_inspected_status_code_2xx

Description Total reverse packets inspected status code 2xx

Type: number

Format: counter

total_rev_pkts_inspected_status_code_non_5xx

Description Total reverse packets inspected status code non 5xx

Type: number

Format: counter

total_ssl_conn

Description Total SSL connections

Type: number

Format: counter

2.1.103 aam authentication service-group oper

Operational Status for the object service-group

service-group Specification

Parameter	Value
Type	*Collection*
Collection Name	*service-group-list*
Collection URI	/axapi/v3/aam/authentication/service-group/{name}
Element Name	service-group
Element URI	/axapi/v3/aam/authentication/service-group/{name}/oper
Element Attributes	service-group_attributes
Partition Visibility	None
Schema	`service-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/service-group/{name}

service-group attributes

Create List

POST

/axapi/v3/aam/authentication/service-group/{name}

service-group attributes

Get Object

GET

/axapi/v3/aam/authentication/service-group/{name}/oper

service-group attributes

Get List

GET

/axapi/v3/aam/authentication/service-group/{name}

service-group-list

Modify Object

POST

/axapi/v3/aam/authentication/service-group/{name}/oper

service-group attributes

Replace Object

PUT

/axapi/v3/aam/authentication/service-group/{name}/oper

service-group attributes

Replace List

PUT

/axapi/v3/aam/authentication/service-group/{name}

service-group-list

Delete Object

DELETE

/axapi/v3/aam/authentication/service-group/{name}/oper

service-group attributes

service-group-list

service-group-list is **JSON List** of *service-group attributes*

```
service-group-list : [
        { service-group attributes },
        { service-group attributes },
        ...
    ]
```

service-group attributes

member-list

Type: List

Reference Object: */axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}*

name

Description Specify AAM service group name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

filter

Description

Type: string

Supported Values: sgm-sort-config

hm_dsr_enable_all_vip

Description

Type: number

pri_affinity_priority

Description

Type: number

servers_disable

Description

Type: number

servers_down

Description

Type: number

servers_total

Description

Type: number

servers_up

Description

Type: number

sgm-list

Type: List

state

Description

Type: string

Supported Values: All Up, Functional Up, Down, Disb, Unkn

stateless_current_rate

Description

Type: number

stateless_current_usage

Description

Type: number

stateless_state

Description

Type: number

stateless_type

Description

Type: number

oper_sgm-list

Specification	Value
Type	*list*
Block object keys	

sgm-name

Description

Type: string

sgm-port

Description

Type: number

member-list

Specification	Value
Type	*list*
Block object keys	

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *member-list_oper*

Type: Object

port

Description Port number

Type: number

Range: 1-65534

Default: 65534

member-list_oper

Specification	Value
Type	*object*

alt-list

Type: List

drs-list

Type: List

hm-index

Description

Type: number

hm-key

Description

Type: number

state

Description

Type: string

Supported Values: UP, DOWN, MAINTENANCE, DIS-UP, DIS-DOWN, DIS-MAINTENANCE

member-list_oper_alt-list

Specification	Value
Type	*list*
Block object keys	

alt-curr-conn

Description

Type: number

alt-fwd-pkts

Description

Type: number

alt-name

Description

Type: string

alt-peak-conn

Description

Type: number

alt-port

Description

Type: number

alt-rev-pkts

Description

Type: number

alt-state

Description

Type: string

alt-total-conn

Description

Type: number

member-list_oper_drs-list

Specification	Value
Type	*list*
Block object keys	

drs-curr-conn

Description

Type: number

drs-curr-req

Description

Type: number

drs-frsp-time

Description

Type: number

drs-fwd-bts

Description

Type: number

drs-fwd-pkts

Description

Type: number

drs-hm-index

Description

Type: number

drs-hm-key

Description

Type: number

drs-name

Description

Type: string

drs-peak-conn

Description

Type: number

drs-pers-conn

Description

Type: number

drs-port

Description

Type: number

drs-priority

Description

Type: number

drs-rev-bts

Description

Type: number

drs-rev-pkts

Description

Type: number

drs-rsp-time

Description

Type: number

drs-srsp-time

Description

Type: number

drs-state

Description

Type: string

drs-total-conn

Description

Type: number

drs-total-req

Description

Type: number

drs-total-req-succ

Description

Type: number

2.1.104 aam authentication service-group stats

Statistics for the object service-group

service-group Specification

Parameter	Value
Type	*Collection*
Collection Name	*service-group-list*
Collection URI	/axapi/v3/aam/authentication/service-group/{name}
Element Name	service-group
Element URI	/axapi/v3/aam/authentication/service-group/{name}/stats
Element Attributes	service-group_attributes
Partition Visibility	None
Schema	`service-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/service-group/{name}

service-group attributes

Create List

POST

/axapi/v3/aam/authentication/service-group/{name}

service-group attributes

Get Object

GET

/axapi/v3/aam/authentication/service-group/{name}/stats

service-group attributes

Get List

GET

/axapi/v3/aam/authentication/service-group/{name}

service-group-list

Modify Object

POST

/axapi/v3/aam/authentication/service-group/{name}/stats

service-group attributes

Replace Object

PUT

/axapi/v3/aam/authentication/service-group/{name}/stats

service-group attributes

Replace List

PUT

/axapi/v3/aam/authentication/service-group/{name}

service-group-list

Delete Object

DELETE

/axapi/v3/aam/authentication/service-group/{name}/stats

service-group attributes

service-group-list

service-group-list is **JSON List** of *service-group attributes*

service-group-list : [

{ *service-group attributes* },

{ *service-group attributes* },

...

]

service-group attributes

member-list

Type: List

Reference Object: */axapi/v3/aam/authentication/service-group/{name}/member/{name}+{port}*

name

Description Specify AAM service group name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

member-list

Specification	Value
Type	*list*
Block object keys	

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 63 characters

Maximum Length: 1 characters

port

Description Port number

Type: number

Range: 1-65534

Default: 65534

stats

Description: stats is a **JSON Block**. Please see below for *member-list_stats*

Type: Object

member-list_stats

Specification	Value
Type	*object*

curr_conn

Description Current established connections

Type: number

Format: counter

curr_conn_overflow

Description Current connection counter overflow count

Type: number

Format: counter

curr_req

Description Current requests

Type: number

Format: counter

curr_ssl_conn

Description Current SSL connections

Type: number

Format: counter

fastest_rsp_time

Description Fastest response time

Type: number

Format: counter

peak_conn

Description some help string

Type: number

Format: counter

response_time

Description Response time

Type: number

Format: counter

slowest_rsp_time

Description Slowest response time

Type: number

Format: counter

total_conn

Description Total established connections

Type: number

Format: counter

total_fwd_bytes

Description Bytes processed in forward direction

Type: number

Format: counter

total_fwd_pkts

Description Packets processed in forward direction

Type: number

Format: counter

total_req

Description Total requests

Type: number

Format: counter

total_req_succ

Description Total requests successful

Type: number

Format: counter

total_rev_bytes

Description Bytes processed in reverse direction

Type: number

Format: counter

total_rev_pkts

Description Packets processed in reverse direction

Type: number

Format: counter

total_rev_pkts_inspected

Description Total reverse packets inspected

Type: number

Format: counter

total_rev_pkts_inspected_status_code_2xx

Description Total reverse packets inspected status code 2xx

Type: number

Format: counter

total_rev_pkts_inspected_status_code_non_5xx

Description Total reverse packets inspected status code non 5xx

Type: number

Format: counter

total_ssl_conn

Description Total SSL connections

Type: number

Format: counter

stats

Specification	Value
Type	*object*

server_selection_fail_drop

Description Drops due to Service selection failure

Type: number

Format: counter

server_selection_fail_reset

Description Resets sent out for Service selection failure

Type: number

Format: counter

service_curr_conn_overflow

Description Current connection counter overflow count

Type: number

Format: counter

service_healthy_host

Description Service Group healthy host count

Type: number

Format: counter

service_peak_conn

Description Peak connection count for the Service Group

Type: number

Format: counter

service_req_count

Description Service Group request count

Type: number

Format: counter

service_resp_2xx

Description Service Group response 2xx count

Type: number

Format: counter

service_resp_3xx

Description Service Group response 3xx count

Type: number

Format: counter

service_resp_4xx

Description Service Group response 4xx count

Type: number

Format: counter

service_resp_5xx

Description Service Group response 5xx count

Type: number

Format: counter

service_resp_count

Description Service Group response count

Type: number

Format: counter

service_unhealthy_host

Description Service Group unhealthy host count

Type: number

Format: counter

2.1.105 aam authentication session

session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	session
Element URI	/axapi/v3/aam/authentication/session
Element Attributes	session_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/aam/authentication/session/oper
Schema	`session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/session

session attributes

Get Object

GET

/axapi/v3/aam/authentication/session

session attributes

Modify Object

POST

/axapi/v3/aam/authentication/session

session attributes

Replace Object

PUT

/axapi/v3/aam/authentication/session

session attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/session

session attributes

session attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.106 aam authentication session-attr

session-attr Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	session-attr
Element URI	/axapi/v3/aam/authentication/session-attr
Element Attributes	session-attr_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/aam/authentication/session-attr/oper
Schema	`session-attr schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/session-attr

session-attr attributes

Get Object

GET

/axapi/v3/aam/authentication/session-attr

session-attr attributes

Modify Object

POST

/axapi/v3/aam/authentication/session-attr

session-attr attributes

Replace Object

PUT

/axapi/v3/aam/authentication/session-attr

session-attr attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/session-attr

session-attr attributes

session-attr attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.107 aam authentication session-attr oper

Operational Status for the object session-attr

session-attr Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	session-attr
Element URI	/axapi/v3/aam/authentication/session-attr/oper
Element Attributes	session-attr_attributes
Partition Visibility	None
Schema	`session-attr schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/session-attr/oper

session-attr attributes

Get Object

GET

/axapi/v3/aam/authentication/session-attr/oper

session-attr attributes

Modify Object

POST

/axapi/v3/aam/authentication/session-attr/oper

session-attr attributes

Replace Object

PUT

/axapi/v3/aam/authentication/session-attr/oper

session-attr attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/session-attr/oper

session-attr attributes

session-attr attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

attr-list

Type: List

partition

Description

Type: string

sid

Description

Type: number

oper_attr-list

Specification	Value
Type	*list*
Block object keys	

attr-name

Description

Type: string

attr-type

Description

Type: string

attr-value

Description

Type: string

2.1.108 aam authentication session oper

Operational Status for the object session

session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	session
Element URI	/axapi/v3/aam/authentication/session/oper
Element Attributes	session_attributes
Partition Visibility	None
Schema	`session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/session/oper

session attributes

Get Object

GET

/axapi/v3/aam/authentication/session/oper

session attributes

Modify Object

POST

/axapi/v3/aam/authentication/session/oper

session attributes

Replace Object

PUT

/axapi/v3/aam/authentication/session/oper

session attributes

Delete Object

DELETE

/axapi/v3/aam/authentication/session/oper

session attributes

session attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

cmd-type

Description

Type: string

Supported Values: sess-only, attr-only, sess-attr

ipv4

Description

Type: string

ipv6

Description

Type: string

partition

Description

Type: string

session-list

Type: List

username

Description

Type: string

vserver

Description

Type: string

oper_session-list

Specification	Value
Type	*list*
Block object keys	

Client-IP

Description

Type: string

Created-Time

Description

Type: string

Domain

Description

Type: string

Domain-Group

Description

Type: string

Session-id

Description

Type: number

TTL-in-seconds

Description

Type: number

Token-Lifetime

Description

Type: string

Type

Description

Type: string

User

Description

Type: string

VIP

Description

Type: string

VPort

Description

Type: string

2.1.109 aam authentication template

Authentication template

template Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*template-list*
Collection URI	/axapi/v3/aam/authentication/template
Element Name	template
Element URI	/axapi/v3/aam/authentication/template/{name}
Element Attributes	template_attributes
Partition Visibility	shared
Schema	`template schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authentication/template

template attributes

```
POST /axapi/v3/aam/authentication/template/
Payload:
{
    "template": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/authentication/template

template attributes

Get Object

GET

/axapi/v3/aam/authentication/template/{name}

template attributes

```
GET /axapi/v3/aam/authentication/template/a
Reponse:
{
    "template": {
        "name": "a",
        "cookie-max-age": 604800,
        "cookie-secure-enable": 0,
        "cookie-httponly-enable": 0,
        "local-logging": 0,
        "logout-idle-timeout": 300,
        "forward-logout-disable": 0,
        "modify-content-security-policy": 0,
        "log": "use-partition-level-config",
        "uuid": "e0ea72b0-087b-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authentication/template/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authentication/template

template-list

Modify Object

POST

/axapi/v3/aam/authentication/template/{name}

template attributes

Replace Object

PUT

/axapi/v3/aam/authentication/template/{name}

template attributes

```
PUT /axapi/v3/aam/authentication/template/a
Payload:
{
    "template": {
        "name": "a",
        "user-tag": "abcd"
```

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```
    }
}
```

Replace List

PUT

/axapi/v3/aam/authentication/template

template-list

Delete Object

DELETE

/axapi/v3/aam/authentication/template/{name}

template attributes

```
DELETE /axapi/v3/aam/authentication/template/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

template-list

template-list is **JSON List** of *template attributes*

template-list : [

{ *template attributes* },

{ *template attributes* },

...

]

template attributes

account

Description Specify AD domain account

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/account/kerberos-spn*

accounting-server

Description Specify a RADIUS accounting server

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: accounting-server and accounting-service-group are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/server/radius/instance*

accounting-service-group

Description Specify an authentication service group for RADIUS accounting

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: accounting-service-group and accounting-server are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

auth-sess-mode

Description 'cookie-based': Track auth-session by cookie (default); 'ip-based': Track auth-session by client IP;

Type: string

Supported Values: cookie-based, ip-based

captcha

Description Specify captcha profile (Specify captcha proflie name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/captcha/instance*

chain

Type: List

cookie-domain

Type: List

cookie-domain-group

Type: List

cookie-httponly-enable

Description Enable httponly attribute for AAM cookies

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cookie-max-age

Description Configure Max-Age for authentication session cookie (Configure Max-Age in seconds, 0 for no Max-Age/Expires attributes. Default is 604800 (1 week).)

Type: number

Range: 0-2592000

Default: 604800

cookie-samesite

Description 'strict': Specify SameSite attribute as Strict for AAM cookie; 'lax': Specify SameSite attribute as Lax for AAM cookie; 'none': Specify SameSite attribute as None for AAM cookie;

Type: string

Supported Values: strict, lax, none

cookie-secure-enable

Description Enable secure attribute for AAM cookies

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

forward-logout-disable

Description Disable forward logout request to backend application server. The config-field logout-url must be configured first

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

jwt

Description Specify authentication jwt template

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/jwt*

local-logging

Description Enable local logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log

Description 'use-partition-level-config': Use configuration of authentication-log enable command; 'enable': Enable authentication logs for this template; 'disable': Disable authentication logs for this template;

Type: string

Supported Values: use-partition-level-config, enable, disable

Default: use-partition-level-config

logon

Description Specify authentication logon (Specify authentication logon template name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/logon/form-based*

logout-idle-timeout

Description Specify idle logout time (Specify idle timeout in seconds, default is 300)

Type: number

Range: 1-86400

Default: 300

logout-url

Description Specify logout url (Specify logout url string)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

max-session-time

Description Specify default SAML token lifetime (Specify lifetime (in seconds) of SAML token when it not provided by token attributes, default is 28800. (0 for indefinite))

Type: number

Range: 0-86400

modify-content-security-policy

Description Put redirect-uri or service-principal-name into CSP header to avoid CPS break authentication process

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Authentication template name

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

oauth-authorization-server

Description Specify OAUTH authorization server

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

oauth-client

Description Specify OAUTH client

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

redirect-hostname

Description Hostname(Length 1-31) for transparent-proxy authentication

Type: string

Format: host

Maximum Length: 31 characters

Maximum Length: 1 characters

relay

Description Specify authentication relay (Specify authentication relay template name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/aam/authentication/relay/http-basic/instance*

saml-idp

Description Specify SAML identity provider

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

saml-sp

Description Specify SAML service provider

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

server

Description Specify authentication server (Specify authentication server template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: server and service-group are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/server/ldap/instance*

service-group

Description Bind an authentication service group to this template (Specify authentication service group name)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: service-group, server, and chain-server are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

type

Description 'saml': SAML authentication template; 'standard': Standard authentication template; 'oauth': Oauth 2.0 authentication template;

Type: string

Supported Values: saml, standard, oauth

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

chain

Specification	Value
Type	*list*
Block object keys	

chain-server

Description Specify authentication server (Specify authentication server template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: chain-server, service-group, and chain-sg are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/server/ldap/instance*

chain-server-priority

Description Set server priority, higher the number higher the priority. Default is 3. (Chain server priority, higher the number higher the priority. Default is 3.)

Type: number

Range: 1-5

Default: 3

chain-sg

Description Bind an authentication service group to this template (Specify authentication service group name)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: chain-sg and chain-server are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

chain-sg-priority

Description Set service-group priority, higher the number higher the priority. Default is 3. (Chain service-group priority, higher the number higher the priority. Default is 3.)

Type: number

Range: 1-5

Default: 3

cookie-domain-group

Specification	Value
Type	*list*
Block object keys	

cookie-dmngrp

Description Specify group id to join in the cookie-domain

Type: number

Range: 0-31

cookie-domain

Specification	Value
Type	*list*
Block object keys	

cookie-dmn

Description Specify domain scope for the authentication (ex: .a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 2 characters

2.1.110 aam authorization

AAM authorization related configuration

authorization Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	authorization
Element URI	/axapi/v3/aam/authorization
Element Attributes	authorization_attributes
Partition Visibility	shared
Schema	`authorization schema`

Operations Allowed:

Get Object

GET

/axapi/v3/aam/authorization

authorization_attributes

authorization attributes

jwt

Description: jwt is a **JSON Block**. Please see below for *jwt*

Type: Object

Reference Object: */axapi/v3/aam/authorization/jwt*

policy-list

Type: List

Reference Object: */axapi/v3/aam/authorization/policy/{name}*

policy-list

Specification	Value
Type	*list*
Block object keys	

attribute-list

Type: List

Reference Object: */axapi/v3/aam/authorization/policy/{name}/attribute/{attr-num}*

attribute-rule

Description Define attribute rule for authorization policy

Type: string

Format: string-rlx

extended-filter

Description Extended search filter. EX: Check whether user belongs to a nested group. (memberOf:1.2.840.113556.1.4.1941:=$GROUP-DN)

Type: string

Format: string-rlx

Maximum Length: 511 characters

Maximum Length: 1 characters

forward-policy-authorize-only

Description This policy only provides server info for forward policy feature

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

jwt-authorization

Description Specify JWT authorization template (Specify JWT authorization template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: jwt-authorization, server, and service-group are mutually exclusive

Reference Object: */axapi/v3/aam/jwt-authorization*

jwt-claim-map-list

Type: List

Reference Object: */axapi/v3/aam/authorization/policy/{name}/jwt-claim-map/{attr-num}*

name

Description Specify authorization policy name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

server

Description Specify a LDAP or RADIUS server for authorization (Specify a LDAP or RADIUS server name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: server, service-group, and jwt-authorization are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/server/ldap/instance*

service-group

Description Specify an authentication service group for authorization (Specify authentication service group name)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: service-group, server, and jwt-authorization are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-list_jwt-claim-map-list

Specification	Value
Type	*list*
Block object keys	

attr-num

Description Spcify attribute ID for claim mapping

Type: number

Range: 1-32

bool-val

Description 'true': True; 'false': False;

Type: string

Supported Values: true, false

boolean-type

Description Claim type is boolean

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: boolean-type, string-type, and number-type are mutually exclusive

claim

Description Specify JWT claim name to map to.

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

num-val

Description Specify JWT claim value.

Type: number

Range: 0-4294967295

number-type

Description Claim type is number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: number-type, string-type, and boolean-type are mutually exclusive

str-val

Description Specify JWT claim value.

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

string-type

Description Claim type is string

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: string-type, number-type, and boolean-type are mutually exclusive

type

Description Specify claim type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-list_attribute-list

Specification	Value
Type	*list*
Block object keys	

A10-AX-AUTH-URI

Description Custom-defined attribute

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: A10-AX-AUTH-URI and attribute-name are mutually exclusive

a10-dynamic-defined

Description The value of this attribute will depend on AX configuration instead of user configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

any

Description Matched when attribute is present (with any value).

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: any and attr-type are mutually exclusive

attr-int

Description 'equal': Operation type is equal; 'not-equal': Operation type is not equal; 'less-than': Operation type is less-than; 'more-than': Operation type is more-than; 'less-than-equal-to': Operation type is less-than-equal-to; 'more-than-equal-to': Operation type is more-thatn-equal-to;

Type: string

Supported Values: equal, not-equal, less-than, more-than, less-than-equal-to, more-than-equal-to

attr-int-val

Description Set attribute value

Type: number

Range: 0-4294967295

attr-ip

Description 'equal': Operation type is equal; 'not-equal': Operation type is not-equal;

Type: string

Supported Values: equal, not-equal

attr-ipv4

Description IPv4 address

Type: string

Format: ipv4-address

attr-num

Description Set attribute ID for authorization policy

Type: number

Range: 1-32

attr-number

Description 'equal': Operation type is equal; 'not-equal': Operation type is not equal; 'less-than': Operation type is less-than; 'more-than': Operation type is more-than; 'less-than-equal-to': Operation type is less-than-equal-to; 'more-than-equal-to': Operation type is more-thatn-equal-to;

Type: string

Supported Values: equal, not-equal, less-than, more-than, less-than-equal-to, more-than-equal-to

attr-number-val

Description Set attribute value

Type: string

Maximum Length: 20 characters

Maximum Length: 1 characters

attr-str

Description 'match': Operation type is match; 'sub-string': Operation type is sub-string;

Type: string

Supported Values: match, sub-string

attr-str-val

Description Set attribute value

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

attr-type

Description Specify attribute type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: attr-type and any are mutually exclusive

attribute-name

Description Specify attribute name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: attribute-name and A10-AX-AUTH-URI are mutually exclusive

custom-attr-str

Description 'match': Operation type is match; 'sub-string': Operation type is sub-string;

Type: string

Supported Values: match, sub-string

custom-attr-type

Description Specify attribute type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

integer-type

Description Attribute type is integer

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: integer-type,string-type, ip-type, and number-type are mutually exclusive

ip-type

Description IP address is transformed into network byte order

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: ip-type,string-type, integer-type, and number-type are mutually exclusive

number-type

Description Attribute type is decimal number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: number-type,string-type, integer-type, and ip-type are mutually exclusive

string-type

Description Attribute type is string

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: string-type,integer-type, ip-type, and number-type are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

jwt

Specification	Value
Type	*object*

cache

Description: cache is a **JSON Block**. Please see below for *jwt_cache*

Type: Object

Reference Object: */axapi/v3/aam/authorization/jwt/cache*

jwt_cache

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.111 aam authorization jwt

AAM authorization JWT related operations

jwt Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	jwt
Element URI	/axapi/v3/aam/authorization/jwt
Element Attributes	jwt_attributes
Partition Visibility	shared
Schema	`jwt schema`

Operations Allowed:

Get Object

GET

/axapi/v3/aam/authorization/jwt

jwt_attributes

jwt attributes

cache

Description: cache is a **JSON Block**. Please see below for *cache*

Type: Object

Reference Object: */axapi/v3/aam/authorization/jwt/cache*

cache

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.112 aam authorization jwt cache

AAM authorization JWT cache related operations

cache Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	cache
Element URI	/axapi/v3/aam/authorization/jwt/cache
Element Attributes	cache_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/aam/authorization/jwt/cache/oper
Schema	`cache schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authorization/jwt/cache

cache attributes

Get Object

GET

/axapi/v3/aam/authorization/jwt/cache

cache attributes

Modify Object

POST

/axapi/v3/aam/authorization/jwt/cache

cache attributes

Replace Object

PUT

/axapi/v3/aam/authorization/jwt/cache

cache attributes

Delete Object

DELETE

/axapi/v3/aam/authorization/jwt/cache

cache attributes

cache attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.113 aam authorization jwt cache oper

Operational Status for the object cache

cache Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	cache
Element URI	/axapi/v3/aam/authorization/jwt/cache/oper
Element Attributes	cache_attributes
Partition Visibility	None
Schema	`cache schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authorization/jwt/cache/oper

cache attributes

Get Object

GET

/axapi/v3/aam/authorization/jwt/cache/oper

cache attributes

Modify Object

POST

/axapi/v3/aam/authorization/jwt/cache/oper

cache attributes

Replace Object

PUT

/axapi/v3/aam/authorization/jwt/cache/oper

cache attributes

Delete Object

DELETE

/axapi/v3/aam/authorization/jwt/cache/oper

cache attributes

cache attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

audience

Description

Type: string

cache-list

Type: List

max_token_cache

Description

Type: number

token_cache_hit

Description

Type: number

token_cached

Description

Type: number

oper_cache-list

Specification	Value
Type	*list*
Block object keys	

audience

Description

Type: string

cache-id

Description

Type: number

client-ip

Description

Type: string

issuer

Description

Type: string

subject

Description

Type: string

ttl

Description

Type: number

2.1.114 aam authorization policy

Authorization-policy configuration

policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*policy-list*
Collection URI	/axapi/v3/aam/authorization/policy
Element Name	policy
Element URI	/axapi/v3/aam/authorization/policy/{name}
Element Attributes	policy_attributes
Partition Visibility	shared
Schema	`policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authorization/policy

policy attributes

```
POST /axapi/v3/aam/authorization/policy/
Payload:
{
    "policy": {
        "name": "a",
        "user-tag": "a",
        "attribute-rule": "1 and 2"
    }
}
```

Create List

POST

/axapi/v3/aam/authorization/policy

policy attributes

Get Object

GET

/axapi/v3/aam/authorization/policy/{name}

policy attributes

```
GET /axapi/v3/aam/authorization/policy/a
Reponse:
```

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(continued from previous page)

```
{
    "policy": {
        "name": "a",
        "attribute-rule": "1 and 2",
        "forward-policy-authorize-only": 0,
        "uuid": "fec6c60c-087c-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/authorization/policy/a"
    }
}
```

Get List

GET

/axapi/v3/aam/authorization/policy

policy-list

Modify Object

POST

/axapi/v3/aam/authorization/policy/{name}

policy attributes

Replace Object

PUT

/axapi/v3/aam/authorization/policy/{name}

policy attributes

```
PUT /axapi/v3/aam/authorization/policy/a
Payload:
{
    "policy": {
        "name": "a",
        "user-tag": "abcd",
        "attribute-rule": "1 and 3"
    }
}
```

Replace List

PUT

/axapi/v3/aam/authorization/policy

policy-list

Delete Object

DELETE

/axapi/v3/aam/authorization/policy/{name}

policy attributes

```
DELETE /axapi/v3/aam/authorization/policy/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

policy-list

policy-list is **JSON List** of *policy attributes*

policy-list : [

{ *policy attributes* },

{ *policy attributes* },

...

]

policy attributes

attribute-list

Type: List

Reference Object: */axapi/v3/aam/authorization/policy/{name}/attribute/{attr-num}*

attribute-rule

Description Define attribute rule for authorization policy

Type: string

Format: string-rlx

extended-filter

Description Extended search filter. EX: Check whether user belongs to a nested group. (memberOf:1.2.840.113556.1.4.1941:=$GROUP-DN)

Type: string

Format: string-rlx

Maximum Length: 511 characters

Maximum Length: 1 characters

forward-policy-authorize-only

Description This policy only provides server info for forward policy feature

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

jwt-authorization

Description Specify JWT authorization template (Specify JWT authorization template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: jwt-authorization, server, and service-group are mutually exclusive

Reference Object: */axapi/v3/aam/jwt-authorization*

jwt-claim-map-list

Type: List

Reference Object: */axapi/v3/aam/authorization/policy/{name}/jwt-claim-map/{attr-num}*

name

Description Specify authorization policy name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

server

Description Specify a LDAP or RADIUS server for authorization (Specify a LDAP or RADIUS server name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: server, service-group, and jwt-authorization are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/server/ldap/instance*

service-group

Description Specify an authentication service group for authorization (Specify authentication service group name)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: service-group, server, and jwt-authorization are mutually exclusive

Reference Object: */axapi/v3/aam/authentication/service-group*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

jwt-claim-map-list

Specification	Value
Type	*list*
Block object keys	

attr-num

Description Spcify attribute ID for claim mapping

Type: number

Range: 1-32

bool-val

Description 'true': True; 'false': False;

Type: string

Supported Values: true, false

boolean-type

Description Claim type is boolean

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: boolean-type, string-type, and number-type are mutually exclusive

claim

Description Specify JWT claim name to map to.

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

num-val

Description Specify JWT claim value.

Type: number

Range: 0-4294967295

number-type

Description Claim type is number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: number-type, string-type, and boolean-type are mutually exclusive

str-val

Description Specify JWT claim value.

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

string-type

Description Claim type is string

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: string-type, number-type, and boolean-type are mutually exclusive

type

Description Specify claim type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

attribute-list

Specification	Value
Type	*list*
Block object keys	

A10-AX-AUTH-URI

Description Custom-defined attribute

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: A10-AX-AUTH-URI and attribute-name are mutually exclusive

a10-dynamic-defined

Description The value of this attribute will depend on AX configuration instead of user configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

any

Description Matched when attribute is present (with any value).

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: any and attr-type are mutually exclusive

attr-int

Description 'equal': Operation type is equal; 'not-equal': Operation type is not equal; 'less-than': Operation type is less-than; 'more-than': Operation type is more-than; 'less-than-equal-to': Operation type is less-than-equal-to; 'more-than-equal-to': Operation type is more-thatn-equal-to;

Type: string

Supported Values: equal, not-equal, less-than, more-than, less-than-equal-to, more-than-equal-to

attr-int-val

Description Set attribute value

Type: number

Range: 0-4294967295

attr-ip

Description 'equal': Operation type is equal; 'not-equal': Operation type is not-equal;

Type: string

Supported Values: equal, not-equal

attr-ipv4

Description IPv4 address

Type: string

Format: ipv4-address

attr-num

Description Set attribute ID for authorization policy

Type: number

Range: 1-32

attr-number

Description 'equal': Operation type is equal; 'not-equal': Operation type is not equal; 'less-than': Operation type is less-than; 'more-than': Operation type is more-than; 'less-than-equal-to': Operation type is less-than-equal-to; 'more-than-equal-to': Operation type is more-thatn-equal-to;

Type: string

Supported Values: equal, not-equal, less-than, more-than, less-than-equal-to, more-than-equal-to

attr-number-val

Description Set attribute value

Type: string

Maximum Length: 20 characters

Maximum Length: 1 characters

attr-str

Description 'match': Operation type is match; 'sub-string': Operation type is sub-string;

Type: string

Supported Values: match, sub-string

attr-str-val

Description Set attribute value

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

attr-type

Description Specify attribute type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: attr-type and any are mutually exclusive

attribute-name

Description Specify attribute name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: attribute-name and A10-AX-AUTH-URI are mutually exclusive

custom-attr-str

Description 'match': Operation type is match; 'sub-string': Operation type is sub-string;

Type: string

Supported Values: match, sub-string

custom-attr-type

Description Specify attribute type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

integer-type

Description Attribute type is integer

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: integer-type,string-type, ip-type, and number-type are mutually exclusive

ip-type

Description IP address is transformed into network byte order

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: ip-type,string-type, integer-type, and number-type are mutually exclusive

number-type

Description Attribute type is decimal number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: number-type,string-type, integer-type, and ip-type are mutually exclusive

string-type

Description Attribute type is string

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: string-type,integer-type, ip-type, and number-type are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.115 aam authorization policy attribute

Authorization-policy attribute configuration

attribute Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*attr-num*
Collection Name	*attribute-list*
Collection URI	/axapi/v3/aam/authorization/policy/{name}/attribute
Element Name	attribute
Element URI	/axapi/v3/aam/authorization/policy/{name}/attribute/{attr-num}
Element Attributes	attribute_attributes
Partition Visibility	shared
Schema	`attribute schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authorization/policy/{name}/attribute

attribute attributes

Create List

POST

/axapi/v3/aam/authorization/policy/{name}/attribute

attribute attributes

Get Object

GET

/axapi/v3/aam/authorization/policy/{name}/attribute/{attr-num}

attribute attributes

Get List

GET

/axapi/v3/aam/authorization/policy/{name}/attribute

attribute-list

Modify Object

POST

/axapi/v3/aam/authorization/policy/{name}/attribute/{attr-num}

attribute attributes

Replace Object

PUT

/axapi/v3/aam/authorization/policy/{name}/attribute/{attr-num}

attribute attributes

Replace List

PUT

/axapi/v3/aam/authorization/policy/{name}/attribute

attribute-list

Delete Object

DELETE

/axapi/v3/aam/authorization/policy/{name}/attribute/{attr-num}

attribute attributes

attribute-list

attribute-list is **JSON List** of *attribute attributes*

```
attribute-list : [
        { attribute attributes },
        { attribute attributes },
        ...
    ]
```

attribute attributes

A10-AX-AUTH-URI

Description Custom-defined attribute

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: A10-AX-AUTH-URI and attribute-name are mutually exclusive

a10-dynamic-defined

Description The value of this attribute will depend on AX configuration instead of user configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

any

Description Matched when attribute is present (with any value).

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: any and attr-type are mutually exclusive

attr-int

Description 'equal': Operation type is equal; 'not-equal': Operation type is not equal; 'less-than': Operation type is less-than; 'more-than': Operation type is more-than; 'less-than-equal-to': Operation type is less-than-equal-to; 'more-than-equal-to': Operation type is more-thatn-equal-to;

Type: string

Supported Values: equal, not-equal, less-than, more-than, less-than-equal-to, more-than-equal-to

attr-int-val

Description Set attribute value

Type: number

Range: 0-4294967295

attr-ip

Description 'equal': Operation type is equal; 'not-equal': Operation type is not-equal;

Type: string

Supported Values: equal, not-equal

attr-ipv4

Description IPv4 address

Type: string

Format: ipv4-address

attr-num

Description Set attribute ID for authorization policy

Type: number

Range: 1-32

attr-number

Description 'equal': Operation type is equal; 'not-equal': Operation type is not equal; 'less-than': Operation type is less-than; 'more-than': Operation type is more-than; 'less-than-equal-to': Operation type is less-than-equal-to; 'more-than-equal-to': Operation type is more-thatn-equal-to;

Type: string

Supported Values: equal, not-equal, less-than, more-than, less-than-equal-to, more-than-equal-to

attr-number-val

Description Set attribute value

Type: string

Maximum Length: 20 characters

Maximum Length: 1 characters

attr-str

Description 'match': Operation type is match; 'sub-string': Operation type is sub-string;

Type: string

Supported Values: match, sub-string

attr-str-val

Description Set attribute value

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

attr-type

Description Specify attribute type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: attr-type and any are mutually exclusive

attribute-name

Description Specify attribute name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: attribute-name and A10-AX-AUTH-URI are mutually exclusive

custom-attr-str

Description 'match': Operation type is match; 'sub-string': Operation type is sub-string;

Type: string

Supported Values: match, sub-string

custom-attr-type

Description Specify attribute type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

integer-type

Description Attribute type is integer

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: integer-type,string-type, ip-type, and number-type are mutually exclusive

ip-type

Description IP address is transformed into network byte order

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: ip-type,string-type, integer-type, and number-type are mutually exclusive

number-type

Description Attribute type is decimal number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: number-type,string-type, integer-type, and ip-type are mutually exclusive

string-type

Description Attribute type is string

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: string-type,integer-type, ip-type, and number-type are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.116 aam authorization policy jwt-claim-map

Map attributes to JWT claims

jwt-claim-map Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*attr-num*
Collection Name	*jwt-claim-map-list*
Collection URI	/axapi/v3/aam/authorization/policy/{name}/jwt-claim-map
Element Name	jwt-claim-map
Element URI	/axapi/v3/aam/authorization/policy/{name}/jwt-claim-map/{attr-num}
Element Attributes	jwt-claim-map_attributes
Partition Visibility	shared
Schema	`jwt-claim-map schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/authorization/policy/{name}/jwt-claim-map

jwt-claim-map attributes

Create List

POST

/axapi/v3/aam/authorization/policy/{name}/jwt-claim-map

jwt-claim-map attributes

Get Object

GET

/axapi/v3/aam/authorization/policy/{name}/jwt-claim-map/{attr-num}

jwt-claim-map attributes

Get List

GET

/axapi/v3/aam/authorization/policy/{name}/jwt-claim-map

jwt-claim-map-list

Modify Object

POST

/axapi/v3/aam/authorization/policy/{name}/jwt-claim-map/{attr-num}

jwt-claim-map attributes

Replace Object

PUT

/axapi/v3/aam/authorization/policy/{name}/jwt-claim-map/{attr-num}

jwt-claim-map attributes

Replace List

PUT

/axapi/v3/aam/authorization/policy/{name}/jwt-claim-map

jwt-claim-map-list

Delete Object

DELETE

/axapi/v3/aam/authorization/policy/{name}/jwt-claim-map/{attr-num}

jwt-claim-map attributes

jwt-claim-map-list

jwt-claim-map-list is **JSON List** of *jwt-claim-map attributes*

```
jwt-claim-map-list : [
        { jwt-claim-map attributes },
        { jwt-claim-map attributes },
        ...
    ]
```

jwt-claim-map attributes

attr-num

Description Spcify attribute ID for claim mapping

Type: number

Range: 1-32

bool-val

Description 'true': True; 'false': False;

Type: string

Supported Values: true, false

boolean-type

Description Claim type is boolean

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: boolean-type, string-type, and number-type are mutually exclusive

claim

Description Specify JWT claim name to map to.

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

num-val

Description Specify JWT claim value.

Type: number

Range: 0-4294967295

number-type

Description Claim type is number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: number-type, string-type, and boolean-type are mutually exclusive

str-val

Description Specify JWT claim value.

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

string-type

Description Claim type is string

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: string-type, number-type, and boolean-type are mutually exclusive

type

Description Specify claim type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.117 aam jwt-authorization

AAM JWT authorization related configuration

jwt-authorization Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*jwt-authorization-list*
Collection URI	/axapi/v3/aam/jwt-authorization
Element Name	jwt-authorization
Element URI	/axapi/v3/aam/jwt-authorization/{name}
Element Attributes	jwt-authorization_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/jwt-authorization/{name}/stats
Schema	`jwt-authorization schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/jwt-authorization

jwt-authorization attributes

```
POST /axapi/v3/aam/jwt-authorization/
Payload:
{
    "jwt-authorization": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/aam/jwt-authorization

jwt-authorization attributes

Get Object

GET

/axapi/v3/aam/jwt-authorization/{name}

jwt-authorization attributes

```
GET /axapi/v3/aam/jwt-authorization/a
Reponse:
{
    "jwt-authorization": {
        "name": "a",
        "jwt-cache-enable": 0,
        "exp-claim-requried": 0,
        "jwt-forwarding": 0,
        "uuid": "ac3e5b42-087d-11f0-847f-51c757813e60",
        "user-tag": "a",
        "a10-url": "/axapi/v3/aam/jwt-authorization/a"
    }
}
```

Get List

GET

/axapi/v3/aam/jwt-authorization

jwt-authorization-list

Modify Object

POST

/axapi/v3/aam/jwt-authorization/{name}

jwt-authorization attributes

Replace Object

PUT

/axapi/v3/aam/jwt-authorization/{name}

jwt-authorization attributes

```
PUT /axapi/v3/aam/jwt-authorization/a
Payload:
{
    "jwt-authorization": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/aam/jwt-authorization

jwt-authorization-list

Delete Object

DELETE

/axapi/v3/aam/jwt-authorization/{name}

jwt-authorization attributes

```
DELETE /axapi/v3/aam/jwt-authorization/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

jwt-authorization-list

jwt-authorization-list is **JSON List** of *jwt-authorization attributes*

jwt-authorization-list : [

{ *jwt-authorization attributes* },

{ *jwt-authorization attributes* },

...

]

jwt-authorization attributes

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

exp-claim-requried

Description Specify the exp claim is required for JWT authorization

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

jwt-cache-enable

Description Enable caching authorized JWT token and skip verification and authorization for cached tokens

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

jwt-exp-default

Description Specify the default token expiration if exp claim is not available (default 1800)

Type: number

Range: 1-86400

jwt-forwarding

Description Specify JWT token will not be stripped while forwarding client request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-level

Description '0': log disable; '1': only log authorzation fail (default); '2': only log authorization success; '3': log all;

Type: string

Supported Values: 0, 1, 2, 3

name

Description Specify JWT authorization template name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/aam-jwt-authorization-tmpl*

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

verification-cert

Description Specify the certificate to verify JWT token signature

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-cert, verification-jwks, and verification-secret are mutually exclusive

verification-jwks

Description Specify the jwks file to verify JWT token signature

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-jwks, verification-cert, and verification-secret are mutually exclusive

verification-secret

Description Specify secret for verify JWT token signature

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: verification-secret, verification-cert, and verification-jwks are mutually exclusive

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'jwt-request': JWT Request; 'jwt-authorize-success': JWT Authorize Success; 'jwt-authorize-failure': JWT Authorize Failure; 'jwt-missing-token': JWT Missing Token; 'jwt-missing-claim': JWT Missing Claim; 'jwt-token-expired': JWT Token Expired; 'jwt-signature-failure': JWT Signature Failure; 'jwt-other-error': JWT Other Error;

Type: string

Supported Values: all, jwt-request, jwt-authorize-success, jwt-authorize-failure, jwt-missing-token, jwt-missing-claim, jwt-token-expired, jwt-signature-failure, jwt-other-error

2.1.118 aam jwt-authorization stats

Statistics for the object jwt-authorization

jwt-authorization Specification

Parameter	Value
Type	*Collection*
Collection Name	*jwt-authorization-list*
Collection URI	/axapi/v3/aam/jwt-authorization/{name}
Element Name	jwt-authorization
Element URI	/axapi/v3/aam/jwt-authorization/{name}/stats
Element Attributes	jwt-authorization_attributes
Partition Visibility	None
Schema	`jwt-authorization schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/jwt-authorization/{name}

jwt-authorization attributes

Create List

POST

/axapi/v3/aam/jwt-authorization/{name}

jwt-authorization attributes

Get Object

GET

/axapi/v3/aam/jwt-authorization/{name}/stats

jwt-authorization attributes

Get List

GET

/axapi/v3/aam/jwt-authorization/{name}

jwt-authorization-list

Modify Object

POST

/axapi/v3/aam/jwt-authorization/{name}/stats

jwt-authorization attributes

Replace Object

PUT

/axapi/v3/aam/jwt-authorization/{name}/stats

jwt-authorization attributes

Replace List

PUT

/axapi/v3/aam/jwt-authorization/{name}

jwt-authorization-list

Delete Object

DELETE

/axapi/v3/aam/jwt-authorization/{name}/stats

jwt-authorization attributes

jwt-authorization-list

jwt-authorization-list is **JSON List** of *jwt-authorization attributes*

```
jwt-authorization-list : [
        { jwt-authorization attributes },
        { jwt-authorization attributes },
        ...
    ]
```

jwt-authorization attributes

name

Description Specify JWT authorization template name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

jwt-authorize-failure

Description JWT Authorize Failure

Type: number

Format: counter

jwt-authorize-success

Description JWT Authorize Success

Type: number

Format: counter

jwt-missing-claim

Description JWT Missing Claim

Type: number

Format: counter

jwt-missing-token

Description JWT Missing Token

Type: number

Format: counter

jwt-other-error

Description JWT Other Error

Type: number

Format: counter

jwt-request

Description JWT Request

Type: number

Format: counter

jwt-signature-failure

Description JWT Signature Failure

Type: number

Format: counter

jwt-token-expired

Description JWT Token Expired

Type: number

Format: counter

2.1.119 aam rdns

rdns Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rdns
Element URI	/axapi/v3/aam/rdns
Element Attributes	rdns_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/aam/rdns/stats
Operational Data URI	/axapi/v3/aam/rdns/oper
Schema	`rdns schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/rdns

rdns attributes

Get Object

GET

/axapi/v3/aam/rdns

rdns attributes

Modify Object

POST

/axapi/v3/aam/rdns

rdns attributes

Replace Object

PUT

/axapi/v3/aam/rdns

rdns attributes

Delete Object

DELETE

/axapi/v3/aam/rdns

rdns attributes

rdns attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.120 aam rdns oper

Operational Status for the object rdns

rdns Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rdns
Element URI	/axapi/v3/aam/rdns/oper
Element Attributes	rdns_attributes
Partition Visibility	None
Schema	`rdns schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/rdns/oper

rdns attributes

Get Object

GET

/axapi/v3/aam/rdns/oper

rdns attributes

Modify Object

POST

/axapi/v3/aam/rdns/oper

rdns attributes

Replace Object

PUT

/axapi/v3/aam/rdns/oper

rdns attributes

Delete Object

DELETE

/axapi/v3/aam/rdns/oper

rdns attributes

rdns attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

addr

Description

Type: string

entry-list

Type: List

mode

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

domain

Description

Type: string

ttl

Description

Type: number

type

Description

Type: string

2.1.121 aam rdns stats

Statistics for the object rdns

rdns Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rdns
Element URI	/axapi/v3/aam/rdns/stats
Element Attributes	rdns_attributes
Partition Visibility	None
Schema	`rdns schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/rdns/stats

rdns attributes

Get Object

GET

/axapi/v3/aam/rdns/stats

rdns attributes

Modify Object

POST

/axapi/v3/aam/rdns/stats

rdns attributes

Replace Object

PUT

/axapi/v3/aam/rdns/stats

rdns attributes

Delete Object

DELETE

/axapi/v3/aam/rdns/stats

rdns attributes

rdns attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

request-dropped

Description Total Dropped Request

Type: number

Format: counter

request-normal

Description Total Normal Request

Type: number

Format: counter

response-error

Description Total Error Response

Type: number

Format: counter

response-failure

Description Total Failure Response

Type: number

Format: counter

response-other

Description Total Other Response

Type: number

Format: counter

response-success

Description Total Success Response

Type: number

Format: counter

response-timeout

Description Total Timeout Response

Type: number

Format: counter

2.1.122 aam resource-usage

Configure AAM Resource Usage

resource-usage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	resource-usage
Element URI	/axapi/v3/aam/resource-usage
Element Attributes	resource-usage_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/aam/resource-usage/oper
Schema	`resource-usage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/resource-usage

resource-usage attributes

```
POST /axapi/v3/aam/resource-usage
Payload:
{
    "resource-usage": {
        "identity-provider-limit": 64
    }
}
```

Get Object

GET

/axapi/v3/aam/resource-usage

resource-usage attributes

```
GET /axapi/v3/aam/resource-usage
Reponse:
{
    "resource-usage": {
        "identity-provider-limit": 64,
        "uuid": "5605feb4-086a-11f0-b2f1-51c757813e60",
```

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```
        "a10-url": "/axapi/v3/aam/resource-usage"
    }
}
```

Modify Object

POST

/axapi/v3/aam/resource-usage

resource-usage attributes

Replace Object

PUT

/axapi/v3/aam/resource-usage

resource-usage attributes

```
PUT /axapi/v3/aam/resource-usage
Payload:
{
    "resource-usage": {
        "identity-provider-limit": 64
    }
}
```

Delete Object

DELETE

/axapi/v3/aam/resource-usage

resource-usage attributes

```
DELETE /axapi/v3/aam/resource-usage
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

resource-usage attributes

identity-provider-limit

Description Total Number of Identity Provider exists in the System

Type: number

Range: 64-256

Default: 64

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.1.123 aam resource-usage oper

Operational Status for the object resource-usage

resource-usage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	resource-usage
Element URI	/axapi/v3/aam/resource-usage/oper
Element Attributes	resource-usage_attributes
Partition Visibility	None
Schema	`resource-usage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/aam/resource-usage/oper

resource-usage attributes

Get Object

GET

/axapi/v3/aam/resource-usage/oper

resource-usage attributes

Modify Object

POST

/axapi/v3/aam/resource-usage/oper

resource-usage attributes

Replace Object

PUT

/axapi/v3/aam/resource-usage/oper

resource-usage attributes

Delete Object

DELETE

/axapi/v3/aam/resource-usage/oper

resource-usage attributes

resource-usage attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

idp-limit-current

Description

Type: number

idp-limit-default

Description

Type: number

idp-limit-maximum

Description

Type: number

idp-limit-minimum

Description

Type: number

2.2 access-list

Objects:

2.2.1 access-list

Configure Access List

access-list Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	access-list
Element URI	/axapi/v3/access-list
Element Attributes	access-list_attributes
Partition Visibility	shared
Schema	`access-list schema`

Operations Allowed:

Get Object

GET

/axapi/v3/access-list

access-list_attributes

access-list attributes

extended-list

Type: List

Reference Object: */axapi/v3/access-list/extended/{extd}*

ipv4

Description: ipv4 is a **JSON Block**. Please see below for *ipv4*

Type: Object

Reference Object: */axapi/v3/access-list/ipv4*

ipv6

Description: ipv6 is a **JSON Block**. Please see below for *ipv6*

Type: Object

Reference Object: */axapi/v3/access-list/ipv6*

standard-list

Type: List

Reference Object: */axapi/v3/access-list/standard/{std}*

summary

Description: summary is a **JSON Block**. Please see below for *summary*

Type: Object

Reference Object: */axapi/v3/access-list/summary*

extended-list

Specification	Value
Type	*list*
Block object keys	

extd

Description IP extended access list

Type: number

Range: 100-199

rules

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

extended-list_rules

Specification	Value
Type	*list*
Block object keys	

acl-log

Description Log matches against this entry

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

any-code

Description Any ICMP code

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: any-code, icmp-code, and special-code are mutually exclusive

any-type

Description Any ICMP type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: any-type, icmp-type, and special-type are mutually exclusive

dscp

Description DSCP

Type: number

Range: 1-63

dst-any

Description Any destination host

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: dst-any,dst-host, dst-subnet, and dst-object-group are mutually exclusive

dst-eq

Description Match only packets on a given destination port (port number)

Type: number

Range: 1-65535

Mutual Exclusion: dst-eq,dst-gt, dst-lt, and dst-range are mutually exclusive

dst-gt

Description Match only packets with a greater port number

Type: number

Range: 1-65534

Mutual Exclusion: dst-gt,dst-eq, dst-lt, and dst-range are mutually exclusive

dst-host

Description A single destination host (Host address)

Type: string

Format: ipv4-address

Mutual Exclusion: dst-host,dst-any, dst-subnet, and dst-object-group are mutually exclusive

dst-lt

Description Match only packets with a lesser port number

Type: number

Range: 2-65535

Mutual Exclusion: dst-lt,dst-eq, dst-gt, and dst-range are mutually exclusive

dst-mask

Description Destination Mask 0=apply 255=ignore

Type: string

Format: ipv4-rev-netmask

dst-object-group

Description Destination network object group name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-object-group,dst-any, dst-host, and dst-subnet are mutually exclusive

dst-port-end

Description Edning Destination Port Number

Type: number

Range: 1-65535

dst-range

Description Match only packets in the range of port numbers (Starting Destination Port Number)

Type: number

Range: 1-65535

Mutual Exclusion: dst-range,dst-eq, dst-gt, and dst-lt are mutually exclusive

dst-subnet

Description Destination Address

Type: string

Format: ipv4-address

Mutual Exclusion: dst-subnet,dst-any, dst-host, and dst-object-group are mutually exclusive

established

Description TCP established

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ethernet

Description Ethernet interface (Port number)

Type: number

Format: interface

extd-action

Description 'deny': Deny; 'permit': Permit; 'l3-vlan-fwd-disable': Disable L3 forwarding between VLANs;

Type: string

Supported Values: deny, permit, l3-vlan-fwd-disable

extd-remark

Description Access list entry comment (Notes for this ACL)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

extd-seq-num

Description Sequence number

Type: number

Range: 1-8192

fragments

Description IP fragments

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmp

Description Internet Control Message Protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: icmp,tcp, udp, ip, and service-obj-group are mutually exclusive

icmp-code

Description ICMP code number

Type: number

Range: 0-254

Mutual Exclusion: icmp-code, any-code, and special-code are mutually exclusive

icmp-type

Description ICMP type number

Type: number

Range: 0-254

Mutual Exclusion: icmp-type, any-type, and special-type are mutually exclusive

ip

Description Any Internet Protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: ip,icmp, tcp, udp, and service-obj-group are mutually exclusive

service-obj-group

Description Service object group (Source object group name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: service-obj-group,icmp, tcp, udp, and ip are mutually exclusive

special-code

Description 'frag-required': Code 4, fragmentation required; 'host-unreachable': Code 1, destination host unreachable; 'network-unreachable': Code 0, destination network unreachable; 'port-unreachable': Code 3, destination port unreachable; 'proto-unreachable': Code 2, destination protocol unreachable; 'route-failed': Code 5, source route failed;

Type: string

Supported Values: frag-required, host-unreachable, network-unreachable, port-unreachable, proto-unreachable, route-failed

Mutual Exclusion: special-code, any-code, and icmp-code are mutually exclusive

special-type

Description 'echo-reply': Type 0, echo reply; 'echo-request': Type 8, echo request; 'info-reply': Type 16, information reply; 'info-request': Type 15, information request; 'mask-reply': Type 18, address mask reply; 'mask-request': Type 17, address mask request; 'parameter-problem': Type 12, parameter problem; 'redirect': Type 5, redirect message; 'source-quench': Type 4, source quench; 'time-exceeded': Type 11, time exceeded; 'timestamp': Type 13, timestamp; 'timestamp-reply': Type 14, timestamp reply; 'dest-unreachable': Type 3, destination unreachable;

Type: string

Supported Values: echo-reply, echo-request, info-reply, info-request, mask-reply, mask-request, parameter-problem, redirect, source-quench, time-exceeded, timestamp, timestamp-reply, dest-unreachable

Mutual Exclusion: special-type, icmp-type, and any-type are mutually exclusive

src-any

Description Any source host

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: src-any,src-host, src-subnet, and src-object-group are mutually exclusive

src-eq

Description Match only packets on a given source port (port number)

Type: number

Range: 1-65535

Mutual Exclusion: src-eq,src-gt, src-lt, and src-range are mutually exclusive

src-gt

Description Match only packets with a greater port number

Type: number

Range: 1-65534

Mutual Exclusion: src-gt,src-eq, src-lt, and src-range are mutually exclusive

src-host

Description A single source host (Host address)

Type: string

Format: ipv4-address

Mutual Exclusion: src-host,src-any, src-subnet, and src-object-group are mutually exclusive

src-lt

Description Match only packets with a lower port number

Type: number

Range: 2-65535

Mutual Exclusion: src-lt,src-eq, src-gt, and src-range are mutually exclusive

src-mask

Description Source Mask 0=apply 255=ignore

Type: string

Format: ipv4-rev-netmask

src-object-group

Description Network object group (Source network object group name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-object-group,src-any, src-host, and src-subnet are mutually exclusive

src-port-end

Description Ending Port Number

Type: number

Range: 1-65535

src-range

Description match only packets in the range of port numbers (Starting Port Number)

Type: number

Range: 1-65535

Mutual Exclusion: src-range,src-eq, src-gt, and src-lt are mutually exclusive

src-subnet

Description Source Address

Type: string

Format: ipv4-address

Mutual Exclusion: src-subnet,src-any, src-host, and src-object-group are mutually exclusive

tcp

Description protocol TCP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: tcp,icmp, udp, ip, and service-obj-group are mutually exclusive

transparent-session-only

Description Only log transparent sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

trunk

Description Ethernet trunk (trunk number)

Type: number

Format: interface

udp

Description protocol UDP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: udp,icmp, tcp, ip, and service-obj-group are mutually exclusive

vlan

Description VLAN ID

Type: number

Range: 1-4094

summary

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv4

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

standard-list

Specification	Value
Type	*list*
Block object keys	

std

Description IP standard access list

Type: number

Range: 1-99

stdrules

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

standard-list_stdrules

Specification	Value
Type	*list*
Block object keys	

action

Description 'deny': Deny; 'permit': Permit; 'l3-vlan-fwd-disable': Disable L3 forwarding between VLANs;

Type: string

Supported Values: deny, permit, l3-vlan-fwd-disable

any

Description Any source host

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: any, host, and subnet are mutually exclusive

host

Description A single source host (Host address)

Type: string

Format: ipv4-address

Mutual Exclusion: host, any, and subnet are mutually exclusive

log

Description Log matches against this entry

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

rev-subnet-mask

Description Network Mask 0=apply 255=ignore

Type: string

Format: ipv4-rev-netmask

seq-num

Description Sequence number

Type: number

Range: 1-8192

std-remark

Description Access list entry comment (Notes for this ACL)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

subnet

Description Source Address

Type: string

Format: ipv4-address

Mutual Exclusion: subnet, any, and host are mutually exclusive

transparent-session-only

Description Only log transparent sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.2.2 access-list extended

Configure Extended Access List

extended Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*extd*
Collection Name	*extended-list*
Collection URI	/axapi/v3/access-list/extended
Element Name	extended
Element URI	/axapi/v3/access-list/extended/{extd}
Element Attributes	extended_attributes
Partition Visibility	shared
Schema	`extended schema`

Operations Allowed:

Create Object

POST

/axapi/v3/access-list/extended

extended attributes

Create List

POST

/axapi/v3/access-list/extended

extended attributes

Get Object

GET

/axapi/v3/access-list/extended/{extd}

extended attributes

Get List

GET

/axapi/v3/access-list/extended

extended-list

Modify Object

POST

/axapi/v3/access-list/extended/{extd}

extended attributes

Replace Object

PUT

/axapi/v3/access-list/extended/{extd}

extended attributes

Replace List

PUT

/axapi/v3/access-list/extended

extended-list

Delete Object

DELETE

/axapi/v3/access-list/extended/{extd}

extended attributes

extended-list

extended-list is **JSON List** of *extended attributes*

extended-list : [

{ *extended attributes* },

{ *extended attributes* },

…

]

extended attributes

extd

Description IP extended access list

Type: number

Range: 100-199

rules

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rules

Specification	Value
Type	*list*
Block object keys	

acl-log

Description Log matches against this entry

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

any-code

Description Any ICMP code

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: any-code, icmp-code, and special-code are mutually exclusive

any-type

Description Any ICMP type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: any-type, icmp-type, and special-type are mutually exclusive

dscp

Description DSCP

Type: number

Range: 1-63

dst-any

Description Any destination host

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: dst-any,dst-host, dst-subnet, and dst-object-group are mutually exclusive

dst-eq

Description Match only packets on a given destination port (port number)

Type: number

Range: 1-65535

Mutual Exclusion: dst-eq,dst-gt, dst-lt, and dst-range are mutually exclusive

dst-gt

Description Match only packets with a greater port number

Type: number

Range: 1-65534

Mutual Exclusion: dst-gt,dst-eq, dst-lt, and dst-range are mutually exclusive

dst-host

Description A single destination host (Host address)

Type: string

Format: ipv4-address

Mutual Exclusion: dst-host,dst-any, dst-subnet, and dst-object-group are mutually exclusive

dst-lt

Description Match only packets with a lesser port number

Type: number

Range: 2-65535

Mutual Exclusion: dst-lt,dst-eq, dst-gt, and dst-range are mutually exclusive

dst-mask

Description Destination Mask 0=apply 255=ignore

Type: string

Format: ipv4-rev-netmask

dst-object-group

Description Destination network object group name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-object-group,dst-any, dst-host, and dst-subnet are mutually exclusive

dst-port-end

Description Edning Destination Port Number

Type: number

Range: 1-65535

dst-range

Description Match only packets in the range of port numbers (Starting Destination Port Number)

Type: number

Range: 1-65535

Mutual Exclusion: dst-range,dst-eq, dst-gt, and dst-lt are mutually exclusive

dst-subnet

Description Destination Address

Type: string

Format: ipv4-address

Mutual Exclusion: dst-subnet,dst-any, dst-host, and dst-object-group are mutually exclusive

established

Description TCP established

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ethernet

Description Ethernet interface (Port number)

Type: number

Format: interface

extd-action

Description 'deny': Deny; 'permit': Permit; 'l3-vlan-fwd-disable': Disable L3 forwarding between VLANs;

Type: string

Supported Values: deny, permit, l3-vlan-fwd-disable

extd-remark

Description Access list entry comment (Notes for this ACL)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

extd-seq-num

Description Sequence number

Type: number

Range: 1-8192

fragments

Description IP fragments

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmp

Description Internet Control Message Protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: icmp,tcp, udp, ip, and service-obj-group are mutually exclusive

icmp-code

Description ICMP code number

Type: number

Range: 0-254

Mutual Exclusion: icmp-code, any-code, and special-code are mutually exclusive

icmp-type

Description ICMP type number

Type: number

Range: 0-254

Mutual Exclusion: icmp-type, any-type, and special-type are mutually exclusive

ip

Description Any Internet Protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: ip,icmp, tcp, udp, and service-obj-group are mutually exclusive

service-obj-group

Description Service object group (Source object group name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: service-obj-group,icmp, tcp, udp, and ip are mutually exclusive

special-code

Description 'frag-required': Code 4, fragmentation required; 'host-unreachable': Code 1, destination host unreachable; 'network-unreachable': Code 0, destination network unreachable; 'port-unreachable': Code 3, destination port unreachable; 'proto-unreachable': Code 2, destination protocol unreachable; 'route-failed': Code 5, source route failed;

Type: string

Supported Values: frag-required, host-unreachable, network-unreachable, port-unreachable, proto-unreachable, route-failed

Mutual Exclusion: special-code, any-code, and icmp-code are mutually exclusive

special-type

Description 'echo-reply': Type 0, echo reply; 'echo-request': Type 8, echo request; 'info-reply': Type 16, information reply; 'info-request': Type 15, information request; 'mask-reply': Type 18, address mask reply; 'mask-request': Type 17, address mask request; 'parameter-problem': Type 12, parameter problem; 'redirect': Type 5, redirect message; 'source-quench': Type 4, source quench; 'time-exceeded': Type 11, time exceeded; 'timestamp': Type 13, timestamp; 'timestamp-reply': Type 14, timestamp reply; 'dest-unreachable': Type 3, destination unreachable;

Type: string

Supported Values: echo-reply, echo-request, info-reply, info-request, mask-reply, mask-request, parameter-problem, redirect, source-quench, time-exceeded, timestamp, timestamp-reply, dest-unreachable

Mutual Exclusion: special-type, icmp-type, and any-type are mutually exclusive

src-any

Description Any source host

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: src-any,src-host, src-subnet, and src-object-group are mutually exclusive

src-eq

Description Match only packets on a given source port (port number)

Type: number

Range: 1-65535

Mutual Exclusion: src-eq,src-gt, src-lt, and src-range are mutually exclusive

src-gt

Description Match only packets with a greater port number

Type: number

Range: 1-65534

Mutual Exclusion: src-gt,src-eq, src-lt, and src-range are mutually exclusive

src-host

Description A single source host (Host address)

Type: string

Format: ipv4-address

Mutual Exclusion: src-host,src-any, src-subnet, and src-object-group are mutually exclusive

src-lt

Description Match only packets with a lower port number

Type: number

Range: 2-65535

Mutual Exclusion: src-lt,src-eq, src-gt, and src-range are mutually exclusive

src-mask

Description Source Mask 0=apply 255=ignore

Type: string

Format: ipv4-rev-netmask

src-object-group

Description Network object group (Source network object group name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-object-group,src-any, src-host, and src-subnet are mutually exclusive

src-port-end

Description Ending Port Number

Type: number

Range: 1-65535

src-range

Description match only packets in the range of port numbers (Starting Port Number)

Type: number

Range: 1-65535

Mutual Exclusion: src-range,src-eq, src-gt, and src-lt are mutually exclusive

src-subnet

Description Source Address

Type: string

Format: ipv4-address

Mutual Exclusion: src-subnet,src-any, src-host, and src-object-group are mutually exclusive

tcp

Description protocol TCP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: tcp,icmp, udp, ip, and service-obj-group are mutually exclusive

transparent-session-only

Description Only log transparent sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

trunk

Description Ethernet trunk (trunk number)

Type: number

Format: interface

udp

Description protocol UDP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: udp,icmp, tcp, ip, and service-obj-group are mutually exclusive

vlan

Description VLAN ID

Type: number

Range: 1-4094

2.2.3 access-list ipv4

Display IPv4 ACLs

ipv4 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ipv4
Element URI	/axapi/v3/access-list/ipv4
Element Attributes	ipv4_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/access-list/ipv4/oper
Schema	`ipv4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/access-list/ipv4

ipv4 attributes

Get Object

GET

/axapi/v3/access-list/ipv4

ipv4 attributes

Modify Object

POST

/axapi/v3/access-list/ipv4

ipv4 attributes

Replace Object

PUT

/axapi/v3/access-list/ipv4

ipv4 attributes

Delete Object

DELETE

/axapi/v3/access-list/ipv4

ipv4 attributes

ipv4 attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.2.4 access-list ipv4 oper

Operational Status for the object ipv4

ipv4 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ipv4
Element URI	/axapi/v3/access-list/ipv4/oper
Element Attributes	ipv4_attributes
Partition Visibility	None
Schema	`ipv4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/access-list/ipv4/oper

ipv4 attributes

Get Object

GET

/axapi/v3/access-list/ipv4/oper

ipv4 attributes

Modify Object

POST

/axapi/v3/access-list/ipv4/oper

ipv4 attributes

Replace Object

PUT

/axapi/v3/access-list/ipv4/oper

ipv4 attributes

Delete Object

DELETE

/axapi/v3/access-list/ipv4/oper

ipv4 attributes

ipv4 attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

acl-list

Type: List

oper_acl-list

Specification	Value
Type	*list*
Block object keys	

binding

Description

Type: boolean

Supported Values: true, false, 1, 0

id

Description

Type: number

is-pool-group

Description

Type: number

mgmt-pkt-hit-count

Description

Type: number

name

Description

Type: string

nat-pool-haid

Description

Type: number

nat-pool-msl

Description

Type: number

nat-pool-name

Description

Type: string

Format: string-rlx

rule-list

Type: List

oper_acl-list_rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

data-plane-hits

Description

Type: number

dscp

Description

Type: number

dst-host

Description

Type: string

dst-host-mask

Description

Type: string

dst-obj-id

Description

Type: string

dst-port-end

Description

Type: number

dst-port-start

Description

Type: number

eth

Description

Type: number

geo-location-name

Description

Type: string

icmp-code

Description

Type: number

icmp-type

Description

Type: number

ip-frag

Description

Type: number

log

Description

Type: number

log-transparent-sess-only

Description

Type: number

mgmt-plane-hits

Description

Type: number

proto

Description

Type: string

remark

Description

Type: string

sequence-num

Description

Type: number

src-host

Description

Type: string

src-host-mask

Description

Type: string

src-obj-id

Description

Type: string

src-port-end

Description

Type: number

src-port-start

Description

Type: number

svc-obj-id

Description

Type: string

tcp-established

Description

Type: number

trunk

Description

Type: number

vlan-id

Description

Type: number

2.2.5 access-list ipv6

Display IPv6 ACLs

ipv6 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ipv6
Element URI	/axapi/v3/access-list/ipv6
Element Attributes	ipv6_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/access-list/ipv6/oper
Schema	`ipv6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/access-list/ipv6

ipv6 attributes

Get Object

GET

/axapi/v3/access-list/ipv6

ipv6 attributes

Modify Object

POST

/axapi/v3/access-list/ipv6

ipv6 attributes

Replace Object

PUT

/axapi/v3/access-list/ipv6

ipv6 attributes

Delete Object

DELETE

/axapi/v3/access-list/ipv6

ipv6 attributes

ipv6 attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.2.6 access-list ipv6 oper

Operational Status for the object ipv6

ipv6 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ipv6
Element URI	/axapi/v3/access-list/ipv6/oper
Element Attributes	ipv6_attributes
Partition Visibility	None
Schema	`ipv6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/access-list/ipv6/oper

ipv6 attributes

Get Object

GET

/axapi/v3/access-list/ipv6/oper

ipv6 attributes

Modify Object

POST

/axapi/v3/access-list/ipv6/oper

ipv6 attributes

Replace Object

PUT

/axapi/v3/access-list/ipv6/oper

ipv6 attributes

Delete Object

DELETE

/axapi/v3/access-list/ipv6/oper

ipv6 attributes

ipv6 attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

acl-list

Type: List

oper_acl-list

Specification	Value
Type	*list*
Block object keys	

id

Description

Type: number

mgmt-pkt-hit-count

Description

Type: number

name

Description

Type: string

rule-list

Type: List

oper_acl-list_rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

data-plane-hits

Description

Type: number

dscp

Description

Type: number

dst-host

Description

Type: string

dst-host-mask

Description

Type: string

dst-obj-id

Description

Type: string

dst-port-end

Description

Type: number

dst-port-start

Description

Type: number

eth

Description

Type: number

geo-location-name

Description

Type: string

icmp-code

Description

Type: number

icmp-type

Description

Type: number

ip-frag

Description

Type: number

log

Description

Type: number

log-transparent-sess-only

Description

Type: number

mgmt-plane-hits

Description

Type: number

proto

Description

Type: string

remark

Description

Type: string

sequence-num

Description

Type: number

src-host

Description

Type: string

src-host-mask

Description

Type: string

src-obj-id

Description

Type: string

src-port-end

Description

Type: number

src-port-start

Description

Type: number

svc-obj-id

Description

Type: string

tcp-established

Description

Type: number

trunk

Description

Type: number

vlan-id

Description

Type: number

2.2.7 access-list standard

Configure Standard Access List

standard Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*std*
Collection Name	*standard-list*
Collection URI	/axapi/v3/access-list/standard
Element Name	standard
Element URI	/axapi/v3/access-list/standard/{std}
Element Attributes	standard_attributes
Partition Visibility	shared
Schema	`standard schema`

Operations Allowed:

Create Object

POST

/axapi/v3/access-list/standard

standard attributes

Create List

POST

/axapi/v3/access-list/standard

standard attributes

Get Object

GET

/axapi/v3/access-list/standard/{std}

standard attributes

Get List

GET

/axapi/v3/access-list/standard

standard-list

Modify Object

POST

/axapi/v3/access-list/standard/{std}

standard attributes

Replace Object

PUT

/axapi/v3/access-list/standard/{std}

standard attributes

Replace List

PUT

/axapi/v3/access-list/standard

standard-list

Delete Object

DELETE

/axapi/v3/access-list/standard/{std}

standard attributes

standard-list

standard-list is **JSON List** of *standard attributes*

```
standard-list : [
        { standard attributes },
        { standard attributes },
        ...
    ]
```

standard attributes

std

Description IP standard access list

Type: number

Range: 1-99

stdrules

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stdrules

Specification	Value
Type	*list*
Block object keys	

action

Description 'deny': Deny; 'permit': Permit; 'l3-vlan-fwd-disable': Disable L3 forwarding between VLANs;

Type: string

Supported Values: deny, permit, l3-vlan-fwd-disable

any

Description Any source host

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: any, host, and subnet are mutually exclusive

host

Description A single source host (Host address)

Type: string

Format: ipv4-address

Mutual Exclusion: host, any, and subnet are mutually exclusive

log

Description Log matches against this entry

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

rev-subnet-mask

Description Network Mask 0=apply 255=ignore

Type: string

Format: ipv4-rev-netmask

seq-num

Description Sequence number

Type: number

Range: 1-8192

std-remark

Description Access list entry comment (Notes for this ACL)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

subnet

Description Source Address

Type: string

Format: ipv4-address

Mutual Exclusion: subnet, any, and host are mutually exclusive

transparent-session-only

Description Only log transparent sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.2.8 access-list summary oper

Operational Status for the object summary

summary Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	summary
Element URI	/axapi/v3/access-list/summary/oper
Element Attributes	summary_attributes
Partition Visibility	None
Schema	`summary schema`

Operations Allowed:

Create Object

POST

/axapi/v3/access-list/summary/oper

summary attributes

Get Object

GET

/axapi/v3/access-list/summary/oper

summary attributes

Modify Object

POST

/axapi/v3/access-list/summary/oper

summary attributes

Replace Object

PUT

/axapi/v3/access-list/summary/oper

summary attributes

Delete Object

DELETE

/axapi/v3/access-list/summary/oper

summary attributes

summary attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

acl-list

Type: List

oper_acl-list

Specification	Value
Type	*list*
Block object keys	

id

Description

Type: number

mgmt-pkt-hit-count

Description

Type: number

name

Description

Type: string

rule-list

Type: List

v6flag

Description

Type: number

oper_acl-list_rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

data-plane-hits

Description

Type: number

dscp

Description

Type: number

dst-host

Description

Type: string

dst-host-mask

Description

Type: string

dst-obj-id

Description

Type: string

dst-port-end

Description

Type: number

dst-port-start

Description

Type: number

eth

Description

Type: number

geo-location-name

Description

Type: string

icmp-code

Description

Type: number

icmp-type

Description

Type: number

ip-frag

Description

Type: number

log

Description

Type: number

log-transparent-sess-only

Description

Type: number

mgmt-plane-hits

Description

Type: number

proto

Description

Type: string

remark

Description

Type: string

sequence-num

Description

Type: number

src-host

Description

Type: string

src-host-mask

Description

Type: string

src-obj-id

Description

Type: string

src-port-end

Description

Type: number

src-port-start

Description

Type: number

svc-obj-id

Description

Type: string

tcp-established

Description

Type: number

trunk

Description

Type: number

vlan-id

Description

Type: number

2.3 accounting

Objects:

2.3.1 accounting

Configuration for accounting

accounting Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	accounting
Element URI	/axapi/v3/accounting
Element Attributes	accounting_attributes
Partition Visibility	shared
Schema	`accounting schema`

Operations Allowed:

Create Object

POST

/axapi/v3/accounting

accounting attributes

```
POST /axapi/v3/accounting
Payload:
{
    "accounting": {
        "exec": {
            "accounting-exec-type": "start-stop",
            "accounting-exec-method": "tacplus"
        },
        "commands": 0,
```

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```
        "tacplus": 1,
        "stop-only": 1
    }
}
```

Get Object

GET

/axapi/v3/accounting

accounting attributes

```
GET /axapi/v3/accounting
Reponse:
{
    "accounting": {
        "commands": 0,
        "stop-only": 1,
        "tacplus": 1,
        "uuid": "294b9654-087e-11f0-847f-51c757813e60",
        "exec": {
            "accounting-exec-type": "start-stop",
            "accounting-exec-method": "tacplus",
            "uuid": "294ba298-087e-11f0-847f-51c757813e60",
            "a10-url": "/axapi/v3/accounting/exec"
        },
        "a10-url": "/axapi/v3/accounting"
    }
}
```

Modify Object

POST

/axapi/v3/accounting

accounting attributes

Replace Object

PUT

/axapi/v3/accounting

accounting attributes

```
PUT /axapi/v3/accounting
Payload:
{
    "accounting": {
        "exec": {
            "accounting-exec-type": "start-stop",
            "accounting-exec-method": "tacplus"
        },
```

(continues on next page)

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```
        "commands": 1,
        "tacplus": 1,
        "stop-only": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/accounting

accounting attributes

```
DELETE /axapi/v3/accounting
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

accounting attributes

commands

Description Enable level for commands accounting

Type: number

Range: 0-15

Default: 0

debug

Description Specify the debug level for accounting (Debug level for command accounting. bitwise OR of the following: 1(common), 2(packet),4(packet detail), 8(md5))

Type: number

Range: 1-15

exec

Description: exec is a **JSON Block**. Please see below for *exec*

Type: Object

Reference Object: */axapi/v3/accounting/exec*

stop-only

Description Record stop when service terminates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tacplus

Description Use TACACS+ servers for accounting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

exec

Specification	Value
Type	*object*

accounting-exec-method

Description 'tacplus': Use TACACS+ servers for accounting; 'radius': Use radius servers for accounting;

Type: string

Supported Values: tacplus, radius

accounting-exec-type

Description 'start-stop': Record start and stop without waiting; 'stop-only': Record stop when service terminates;

Type: string

Supported Values: start-stop, stop-only

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.3.2 accounting exec

Configuration for EXEC <shell> accounting

exec Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	exec
Element URI	/axapi/v3/accounting/exec
Element Attributes	exec_attributes
Partition Visibility	shared
Schema	`exec schema`

Operations Allowed:

Create Object

POST

/axapi/v3/accounting/exec

exec attributes

```
POST /axapi/v3/accounting/exec
Payload:
{
    "exec": {
        "accounting-exec-type": "start-stop",
        "accounting-exec-method": "tacplus"
    }
}
```

Get Object

GET

/axapi/v3/accounting/exec

exec attributes

```
GET /axapi/v3/accounting/exec
Reponse:
{
    "exec": {
        "accounting-exec-type": "start-stop",
        "accounting-exec-method": "tacplus",
        "uuid": "4b892754-087e-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/accounting/exec"
    }
}
```

Modify Object

POST

/axapi/v3/accounting/exec

exec attributes

Replace Object

PUT

/axapi/v3/accounting/exec

exec attributes

```
PUT /axapi/v3/accounting/exec
Payload:
{
    "exec": {
        "accounting-exec-type": "start-stop",
        "accounting-exec-method": "tacplus"
    }
}
```

Delete Object

DELETE

/axapi/v3/accounting/exec

exec attributes

```
DELETE /axapi/v3/accounting/exec
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

exec attributes

accounting-exec-method

Description 'tacplus': Use TACACS+ servers for accounting; 'radius': Use radius servers for accounting;

Type: string

Supported Values: tacplus, radius

accounting-exec-type

Description 'start-stop': Record start and stop without waiting; 'stop-only': Record stop when service terminates;

Type: string

Supported Values: start-stop, stop-only

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.4 acos-cloud-integration

Objects:

2.4.1 acos-cloud-integration

Setting for heterogeneous cloud environment integration

acos-cloud-integration Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	acos-cloud-integration
Element URI	/axapi/v3/acos-cloud-integration
Element Attributes	acos-cloud-integration_attributes
Partition Visibility	shared
Schema	`acos-cloud-integration schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-cloud-integration

acos-cloud-integration attributes

```
POST /axapi/v3/acos-cloud-integration
Payload:
{
    "acos-cloud-integration": {
        "ecosystem": {
            "consul": {
                "ipv4-address": "3.3.3.3"
            }
        }
    }
}
```

Get Object

GET

/axapi/v3/acos-cloud-integration

acos-cloud-integration attributes

```
GET /axapi/v3/acos-cloud-integration
Reponse:
{
    "acos-cloud-integration": {
        "uuid": "8996506e-b6a6-11ef-b71b-ae71681635d0",
        "ecosystem": {
            "uuid": "8996524e-b6a6-11ef-b71b-ae71681635d0",
            "consul": {
                "ipv4-address": "3.3.3.3",
                "action": "disable",
                "uuid": "89965456-b6a6-11ef-b71b-ae71681635d0",
                "a10-url": "/axapi/v3/acos-cloud-integration/ecosystem/consul"
            },
            "oracle": {
                "action": "disable",
                "uuid": "89965654-b6a6-11ef-b71b-ae71681635d0",
                "a10-url": "/axapi/v3/acos-cloud-integration/ecosystem/oracle"
            },
            "k8s": {
                "action": "disable",
                "uuid": "8996583e-b6a6-11ef-b71b-ae71681635d0",
                "a10-url": "/axapi/v3/acos-cloud-integration/ecosystem/k8s"
            },
            "a10-url": "/axapi/v3/acos-cloud-integration/ecosystem"
        },
        "a10-url": "/axapi/v3/acos-cloud-integration"
    }
}
```

Modify Object

POST

/axapi/v3/acos-cloud-integration

acos-cloud-integration attributes

Replace Object

PUT

/axapi/v3/acos-cloud-integration

acos-cloud-integration attributes

acos-cloud-integration attributes

dummy

Description dummy to make intermediate obj to single

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ecosystem

Description: ecosystem is a **JSON Block**. Please see below for *ecosystem*

Type: Object

Reference Object: */axapi/v3/acos-cloud-integration/ecosystem*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ecosystem

Specification	Value
Type	*object*

consul

Description: consul is a **JSON Block**. Please see below for *ecosystem_consul*

Type: Object

Reference Object: */axapi/v3/acos-cloud-integration/ecosystem/consul*

dummy

Description dummy to make intermediate obj to single

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

k8s

Description: k8s is a **JSON Block**. Please see below for *ecosystem_k8s*

Type: Object

Reference Object: */axapi/v3/acos-cloud-integration/ecosystem/k8s*

oracle

Description: oracle is a **JSON Block**. Please see below for *ecosystem_oracle*

Type: Object

Reference Object: */axapi/v3/acos-cloud-integration/ecosystem/oracle*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ecosystem_oracle

Specification	Value
Type	*object*

action

Description 'enable': Enable Configuration; 'disable': Disable Configuration;

Type: string

Supported Values: enable, disable

Default: disable

compartment-id

Description OCI compartment id

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

fingerprint

Description

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

health-check-interval

Description '5': 5 seconds; '10': 10 seconds; '15': 15 seconds; '20': 20 seconds;

Type: string

Supported Values: 5, 10, 15, 20

host-name

Description Configure the host name for bootstrap server(e.g www.a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: host-name, ipv4-address, and ipv6-address are mutually exclusive

ipv4-address

Description Configure the bootstrap server's IPv4 address (the host IPv4 address)

Type: string

Format: ipv4-address

Mutual Exclusion: ipv4-address, ipv6-address, and host-name are mutually exclusive

ipv6-address

Description Configure the bootstrap server's IPv6 address (the host IPv6 address)

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-address, ipv4-address, and host-name are mutually exclusive

port

Description Configure the http port to use (port 8500)

Type: number

Range: 1-65535

private-key-path

Description

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

service-label

Type: List

tenancy-id

Description OCI tenancy id

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

user-id

Description OCI user id

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ecosystem_oracle_service-label

Specification	Value
Type	*list*
Block object keys	

service-label-name

Description Name service group to be monitored

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/slb/service-group*

ecosystem_consul

Specification	Value
Type	*object*

action

Description 'enable': Enable Configuration; 'disable': Disable Configuration;

Type: string

Supported Values: enable, disable

Default: disable

health-check-interval

Description '5': 5 seconds; '10': 10 seconds; '15': 15 seconds; '20': 20 seconds;

Type: string

Supported Values: 5, 10, 15, 20

host-name

Description Configure the host name for bootstrap server(e.g www.a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: host-name, ipv4-address, and ipv6-address are mutually exclusive

ipv4-address

Description Configure the bootstrap server's IPv4 address (the host IPv4 address)

Type: string

Format: ipv4-address

Mutual Exclusion: ipv4-address, ipv6-address, and host-name are mutually exclusive

ipv6-address

Description Configure the bootstrap server's IPv6 address (the host IPv6 address)

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-address, ipv4-address, and host-name are mutually exclusive

port

Description Configure the http port to use (port 8500)

Type: number

Range: 1-65535

service-label

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ecosystem_consul_service-label

Specification	Value
Type	*list*
Block object keys	

service-label-name

Description Name service group to be monitored

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/slb/service-group*

ecosystem_k8s

Specification	Value
Type	*object*

action

Description 'enable': Enable Configuration; 'disable': Disable Configuration;

Type: string

Supported Values: enable, disable

Default: disable

cluster-config-file

Description Enter cluster config file name

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

health-check-interval

Description '5': 5 seconds; '10': 10 seconds; '15': 15 seconds; '20': 20 seconds;

Type: string

Supported Values: 5, 10, 15, 20

service-label

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ecosystem_k8s_service-label

Specification	Value
Type	*list*
Block object keys	

service-label-name

Description Name service group to be monitored

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/slb/service-group*

2.4.2 acos-cloud-integration ecosystem

Ecosystem setting for heterogeneous cloud environment integration

ecosystem Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ecosystem
Element URI	/axapi/v3/acos-cloud-integration/ecosystem
Element Attributes	ecosystem_attributes
Partition Visibility	shared
Schema	`ecosystem schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-cloud-integration/ecosystem

ecosystem attributes

```
POST /axapi/v3/acos-cloud-integration/ecosystem
Payload:
{
    "ecosystem": {
        "consul": {
            "ipv4-address": "3.3.3.3"
        }
    }
}
```

Get Object

GET

/axapi/v3/acos-cloud-integration/ecosystem

ecosystem attributes

```
GET /axapi/v3/acos-cloud-integration/ecosystem
Reponse:
{
    "ecosystem": {
        "uuid": "8996524e-b6a6-11ef-b71b-ae71681635d0",
        "consul": {
            "ipv4-address": "3.3.3.3",
            "action": "disable",
```

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```
            "uuid": "89965456-b6a6-11ef-b71b-ae71681635d0",
            "a10-url": "/axapi/v3/acos-cloud-integration/ecosystem/consul"
        },
        "oracle": {
            "action": "disable",
            "uuid": "89965654-b6a6-11ef-b71b-ae71681635d0",
            "a10-url": "/axapi/v3/acos-cloud-integration/ecosystem/oracle"
        },
        "k8s": {
            "action": "disable",
            "uuid": "8996583e-b6a6-11ef-b71b-ae71681635d0",
            "a10-url": "/axapi/v3/acos-cloud-integration/ecosystem/k8s"
        },
        "a10-url": "/axapi/v3/acos-cloud-integration/ecosystem"
    }
}
```

Modify Object

POST

/axapi/v3/acos-cloud-integration/ecosystem

ecosystem attributes

Replace Object

PUT

/axapi/v3/acos-cloud-integration/ecosystem

ecosystem attributes

ecosystem attributes

consul

Description: consul is a **JSON Block**. Please see below for *consul*

Type: Object

Reference Object: */axapi/v3/acos-cloud-integration/ecosystem/consul*

dummy

Description dummy to make intermediate obj to single

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

k8s

Description: k8s is a **JSON Block**. Please see below for *k8s*

Type: Object

Reference Object: */axapi/v3/acos-cloud-integration/ecosystem/k8s*

oracle

Description: oracle is a **JSON Block**. Please see below for *oracle*

Type: Object

Reference Object: */axapi/v3/acos-cloud-integration/ecosystem/oracle*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

oracle

Specification	Value
Type	*object*

action

Description 'enable': Enable Configuration; 'disable': Disable Configuration;

Type: string

Supported Values: enable, disable

Default: disable

compartment-id

Description OCI compartment id

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

fingerprint

Description

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

health-check-interval

Description '5': 5 seconds; '10': 10 seconds; '15': 15 seconds; '20': 20 seconds;

Type: string

Supported Values: 5, 10, 15, 20

host-name

Description Configure the host name for bootstrap server(e.g www.a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: host-name, ipv4-address, and ipv6-address are mutually exclusive

ipv4-address

Description Configure the bootstrap server's IPv4 address (the host IPv4 address)

Type: string

Format: ipv4-address

Mutual Exclusion: ipv4-address, ipv6-address, and host-name are mutually exclusive

ipv6-address

Description Configure the bootstrap server's IPv6 address (the host IPv6 address)

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-address, ipv4-address, and host-name are mutually exclusive

port

Description Configure the http port to use (port 8500)

Type: number

Range: 1-65535

private-key-path

Description

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

service-label

Type: List

tenancy-id

Description OCI tenancy id

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

user-id

Description OCI user id

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

oracle_service-label

Specification	Value
Type	*list*
Block object keys	

service-label-name

Description Name service group to be monitored

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/slb/service-group*

consul

Specification	Value
Type	*object*

action

Description 'enable': Enable Configuration; 'disable': Disable Configuration;

Type: string

Supported Values: enable, disable

Default: disable

health-check-interval

Description '5': 5 seconds; '10': 10 seconds; '15': 15 seconds; '20': 20 seconds;

Type: string

Supported Values: 5, 10, 15, 20

host-name

Description Configure the host name for bootstrap server(e.g www.a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: host-name, ipv4-address, and ipv6-address are mutually exclusive

ipv4-address

Description Configure the bootstrap server's IPv4 address (the host IPv4 address)

Type: string

Format: ipv4-address

Mutual Exclusion: ipv4-address, ipv6-address, and host-name are mutually exclusive

ipv6-address

Description Configure the bootstrap server's IPv6 address (the host IPv6 address)

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-address, ipv4-address, and host-name are mutually exclusive

port

Description Configure the http port to use (port 8500)

Type: number

Range: 1-65535

service-label

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

consul_service-label

Specification	Value
Type	*list*
Block object keys	

service-label-name

Description Name service group to be monitored

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/slb/service-group*

k8s

Specification	Value
Type	*object*

action

Description 'enable': Enable Configuration; 'disable': Disable Configuration;

Type: string

Supported Values: enable, disable

Default: disable

cluster-config-file

Description Enter cluster config file name

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

health-check-interval

Description '5': 5 seconds; '10': 10 seconds; '15': 15 seconds; '20': 20 seconds;

Type: string

Supported Values: 5, 10, 15, 20

service-label

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

k8s_service-label

Specification	Value
Type	*list*
Block object keys	

service-label-name

Description Name service group to be monitored

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/slb/service-group*

2.4.3 acos-cloud-integration ecosystem consul

Configure the consul ecosystem for integration

consul Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	consul
Element URI	/axapi/v3/acos-cloud-integration/ecosystem/consul
Element Attributes	consul_attributes
Partition Visibility	shared
Schema	`consul schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-cloud-integration/ecosystem/consul

consul attributes

```
POST /axapi/v3/acos-cloud-integration/ecosystem/consul
Payload:
{
    "consul": {
        "ipv4-address": "3.3.3.3"
    }
}
```

Get Object

GET

/axapi/v3/acos-cloud-integration/ecosystem/consul

consul attributes

```
GET /axapi/v3/acos-cloud-integration/ecosystem/consul
Reponse:
{
    "consul": {
        "ipv4-address": "3.3.3.3",
        "action": "disable",
        "uuid": "89965456-b6a6-11ef-b71b-ae71681635d0",
        "a10-url": "/axapi/v3/acos-cloud-integration/ecosystem/consul"
    }
}
```

Modify Object

POST

/axapi/v3/acos-cloud-integration/ecosystem/consul

consul attributes

Replace Object

PUT

/axapi/v3/acos-cloud-integration/ecosystem/consul

consul attributes

```
PUT /axapi/v3/acos-cloud-integration/ecosystem/consul
Payload:
{
    "consul": {
        "ipv4-address": "3.3.3.4"
    }
}
```

Delete Object

DELETE

/axapi/v3/acos-cloud-integration/ecosystem/consul

consul attributes

```
DELETE /axapi/v3/acos-cloud-integration/ecosystem/consul
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

consul attributes

action

Description 'enable': Enable Configuration; 'disable': Disable Configuration;

Type: string

Supported Values: enable, disable

Default: disable

health-check-interval

Description '5': 5 seconds; '10': 10 seconds; '15': 15 seconds; '20': 20 seconds;

Type: string

Supported Values: 5, 10, 15, 20

host-name

Description Configure the host name for bootstrap server(e.g www.a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: host-name, ipv4-address, and ipv6-address are mutually exclusive

ipv4-address

Description Configure the bootstrap server's IPv4 address (the host IPv4 address)

Type: string

Format: ipv4-address

Mutual Exclusion: ipv4-address, ipv6-address, and host-name are mutually exclusive

ipv6-address

Description Configure the bootstrap server's IPv6 address (the host IPv6 address)

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-address, ipv4-address, and host-name are mutually exclusive

port

Description Configure the http port to use (port 8500)

Type: number

Range: 1-65535

service-label

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service-label

Specification	Value
Type	*list*
Block object keys	

service-label-name

Description Name service group to be monitored

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/slb/service-group*

2.4.4 acos-cloud-integration ecosystem k8s

Configure the kubernetes ecosystem for integration

k8s Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	k8s
Element URI	/axapi/v3/acos-cloud-integration/ecosystem/k8s
Element Attributes	k8s_attributes
Partition Visibility	shared
Schema	`k8s schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-cloud-integration/ecosystem/k8s

k8s attributes

```
POST /axapi/v3/acos-cloud-integration/ecosystem/k8s
Payload:
{
    "k8s": {
        "health-check-interval": "5"
    }
}
```

Get Object

GET

/axapi/v3/acos-cloud-integration/ecosystem/k8s

k8s attributes

```
GET /axapi/v3/acos-cloud-integration/ecosystem/k8s
Reponse:
{
    "k8s": {
        "action": "disable",
        "health-check-interval": "5",
        "uuid": "8996583e-b6a6-11ef-b71b-ae71681635d0",
        "a10-url": "/axapi/v3/acos-cloud-integration/ecosystem/k8s"
    }
}
```

Modify Object

POST

/axapi/v3/acos-cloud-integration/ecosystem/k8s

k8s attributes

Replace Object

PUT

/axapi/v3/acos-cloud-integration/ecosystem/k8s

k8s attributes

Delete Object

DELETE

/axapi/v3/acos-cloud-integration/ecosystem/k8s

k8s attributes

k8s attributes

action

Description 'enable': Enable Configuration; 'disable': Disable Configuration;

Type: string

Supported Values: enable, disable

Default: disable

cluster-config-file

Description Enter cluster config file name

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

health-check-interval

Description '5': 5 seconds; '10': 10 seconds; '15': 15 seconds; '20': 20 seconds;

Type: string

Supported Values: 5, 10, 15, 20

service-label

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service-label

Specification	Value
Type	*list*
Block object keys	

service-label-name

Description Name service group to be monitored

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/slb/service-group*

2.4.5 acos-cloud-integration ecosystem oracle

Configure the oracle ecosystem for integration

oracle Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	oracle
Element URI	/axapi/v3/acos-cloud-integration/ecosystem/oracle
Element Attributes	oracle_attributes
Partition Visibility	shared
Schema	`oracle schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-cloud-integration/ecosystem/oracle

oracle attributes

```
POST /axapi/v3/acos-cloud-integration/ecosystem/oracle
Payload:
{
    "oracle": {
        "ipv4-address": "3.3.3.3"
    }
}
```

Get Object

GET

/axapi/v3/acos-cloud-integration/ecosystem/oracle

oracle attributes

```
GET /axapi/v3/acos-cloud-integration/ecosystem/oracle
Reponse:
{
    "oracle": {
        "ipv4-address": "3.3.3.3",
        "action": "disable",
        "uuid": "89965654-b6a6-11ef-b71b-ae71681635d0",
        "a10-url": "/axapi/v3/acos-cloud-integration/ecosystem/oracle"
    }
}
```

Modify Object

POST

/axapi/v3/acos-cloud-integration/ecosystem/oracle

oracle attributes

Replace Object

PUT

/axapi/v3/acos-cloud-integration/ecosystem/oracle

oracle attributes

```
PUT /axapi/v3/acos-cloud-integration/ecosystem/oracle
Payload:
{
    "oracle": {
        "ipv4-address": "3.3.3.4"
    }
}
```

Delete Object

DELETE

/axapi/v3/acos-cloud-integration/ecosystem/oracle

oracle attributes

```
DELETE /axapi/v3/acos-cloud-integration/ecosystem/oracle
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

oracle attributes

action

Description 'enable': Enable Configuration; 'disable': Disable Configuration;

Type: string

Supported Values: enable, disable

Default: disable

compartment-id

Description OCI compartment id

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

fingerprint

Description

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

health-check-interval

Description '5': 5 seconds; '10': 10 seconds; '15': 15 seconds; '20': 20 seconds;

Type: string

Supported Values: 5, 10, 15, 20

host-name

Description Configure the host name for bootstrap server(e.g www.a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: host-name, ipv4-address, and ipv6-address are mutually exclusive

ipv4-address

Description Configure the bootstrap server's IPv4 address (the host IPv4 address)

Type: string

Format: ipv4-address

Mutual Exclusion: ipv4-address, ipv6-address, and host-name are mutually exclusive

ipv6-address

Description Configure the bootstrap server's IPv6 address (the host IPv6 address)

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-address, ipv4-address, and host-name are mutually exclusive

port

Description Configure the http port to use (port 8500)

Type: number

Range: 1-65535

private-key-path

Description

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

service-label

Type: List

tenancy-id

Description OCI tenancy id

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

user-id

Description OCI user id

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service-label

Specification	Value
Type	*list*
Block object keys	

service-label-name

Description Name service group to be monitored

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/slb/service-group*

2.5 acos-events

Objects:

2.5.1 acos-events

Configure message logging

acos-events Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	acos-events
Element URI	/axapi/v3/acos-events
Element Attributes	acos-events_attributes
Partition Visibility	shared
Schema	`acos-events schema`

Operations Allowed:

Get Object

GET

/axapi/v3/acos-events

acos-events_attributes

acos-events attributes

active-template

Description: active-template is a **JSON Block**. Please see below for *active-template*

Type: Object

Reference Object: */axapi/v3/acos-events/active-template*

collector-group-list

Type: List

Reference Object: */axapi/v3/acos-events/collector-group/{name}*

local-logging

Description: local-logging is a **JSON Block**. Please see below for *local-logging*

Type: Object

Reference Object: */axapi/v3/acos-events/local-logging*

log-parameterization

Description: log-parameterization is a **JSON Block**. Please see below for *log-parameterization*

Type: Object

Reference Object: */axapi/v3/acos-events/log-parameterization*

log-properties

Description: log-properties is a **JSON Block**. Please see below for *log-properties*

Type: Object

Reference Object: */axapi/v3/acos-events/log-properties*

log-server-list

Type: List

Reference Object: */axapi/v3/acos-events/log-server/{name}*

logdb

Description: logdb is a **JSON Block**. Please see below for *logdb*

Type: Object

Reference Object: */axapi/v3/acos-events/logdb*

message-id-list

Type: List

Reference Object: */axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}*

message-selector-list

Type: List

Reference Object: */axapi/v3/acos-events/message-selector/{name}*

messages

Description: messages is a **JSON Block**. Please see below for *messages*

Type: Object

Reference Object: */axapi/v3/acos-events/messages*

rate-limit-local

Description: rate-limit-local is a **JSON Block**. Please see below for *rate-limit-local*

Type: Object

Reference Object: */axapi/v3/acos-events/rate-limit-local*

rate-limit-remote

Description: rate-limit-remote is a **JSON Block**. Please see below for *rate-limit-remote*

Type: Object

Reference Object: */axapi/v3/acos-events/rate-limit-remote*

statistics

Description: statistics is a **JSON Block**. Please see below for *statistics*

Type: Object

Reference Object: */axapi/v3/acos-events/statistics*

template-list

Type: List

Reference Object: */axapi/v3/acos-events/template/{name}*

use-partition

Description: use-partition is a **JSON Block**. Please see below for *use-partition*

Type: Object

Reference Object: */axapi/v3/acos-events/use-partition*

rate-limit-remote

Specification	Value
Type	*object*

limit

Description Configure rate limit for logs sent to remote via classic logging config

Type: number

Range: 0-250

Default: 32

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

statistics

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

statistics_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msg_sent': Messages sent, to Remote; 'msg_sent_logdb': Messages sent, to LogDB; 'msg_dropped_format_not_defined': Messages Dropped, format not defined; 'msg_dropped_malloc_failure': Messages Dropped, malloc failure; 'msg_dropped_no_template': Messages Dropped, no active template; 'msg_dropped_selector': Messages Dropped, selector does not enable msg; 'msg_dropped_too_long': Messages Dropped, invalid length; 'msg_dropped_craft_fail': Messages Dropped, msg crafting failed; 'msg_dropped_local_log_ratelimit': Messages Dropped, local log ratelimited; 'msg_dropped_remote_log_ratelimit': Messages Dropped, remote log ratelimited; 'msg_dropped_send_failed': Messages Dropped, send failed; 'msg_dropped_no_active_member': Messages Dropped, no active member in collector grp; 'msg_dropped_route_fail': Messages Dropped, Route lookup failed; 'msg_dropped_other': Messages Dropped, unexpected error; 'no_template': Message API called, with no active template; 'msg_dropped_lost_during_config_change': Messages Dropped, lost during config change; 'local_enqueue_pass': Messages enqueue to Logd passed; 'msg_sent_to_logd': Messages sent to Logd via IPC; 'msg_retry_after_socket_fail': Messages retried to be sent to Logd via IPC; 'msg_sent_direct_syslog': Messages sent to syslog directly from axlog; 'msg_dropped_send_to_logd_fail': Messages Dropped, send to Logd via IPC failed; 'msg_dropped_trylock_fail': Messages Dropped, Trylock failed in axlog; 'msg_dropped_remote_cplane_log_ratelimit': Messages Dropped,

Remote cplane log ratelimited; 'msg_dropped_remote_dplane_log_ratelimit': Messages Dropped, Remote dplane log ratelimited; 'msg_dropped_local_enqueue_failed': Messages Dropped, Enqueue to Logd failed; 'msg_dropped_grp_not_used': Messages Dropped, Collector group not used; 'msg_sent_remote_cplane': Messages Sent, to remote in logd; 'msg_dropped_no_template_logd': Messages Dropped, no active template in Logd; 'msg_dropped_lost_during_config_change_logd': Messages Dropped, lost during config change in Logd; 'msg_dropped_craft_fail_logd': Messages Dropped, msg crafting failed in Logd; 'msg_dropped_send_failed_logd': Messages Dropped, send failed in Logd; 'msg_dropped_no_active_member_logd': Messages Dropped, no active member in collector grp in Logd; 'msg_dropped_other_logd': Messages Dropped, unexpected error in Logd; 'msg_dropped_invalid_part': Messages Dropped, Invalid partition Id; 'acos_evt_test_logs_ticks': Number of ticks when running ACOS Event Test Logs; 'param_msg_sent_to_hc': Parameterized log sent to HC; 'param_msg_sent_fail': Parameterized log send to HC failed; 'param_msg_encode_fail': Parameterized log AVRO encoding failed;

Type: string

Supported Values: all, msg_sent, msg_sent_logdb, msg_dropped_format_not_defined, msg_dropped_malloc_failure, msg_dropped_no_template, msg_dropped_selector, msg_dropped_too_long, msg_dropped_craft_fail, msg_dropped_local_log_ratelimit, msg_dropped_remote_log_ratelimit, msg_dropped_send_failed, msg_dropped_no_active_member, msg_dropped_route_fail, msg_dropped_other, no_template, msg_dropped_lost_during_config_change, local_enqueue_pass, msg_sent_to_logd, msg_retry_after_socket_fail, msg_sent_direct_syslog, msg_dropped_send_to_logd_fail, msg_dropped_trylock_fail, msg_dropped_remote_cplane_log_ratelimit, msg_dropped_remote_dplane_log_ratelimit, msg_dropped_local_enqueue_failed, msg_dropped_grp_not_used, msg_sent_remote_cplane, msg_dropped_no_template_logd, msg_dropped_lost_during_config_change_logd, msg_dropped_craft_fail_logd, msg_dropped_send_failed_logd, msg_dropped_no_active_member_logd, msg_dropped_other_logd, msg_dropped_invalid_part, acos_evt_test_logs_ticks, param_msg_sent_to_hc, param_msg_sent_fail, param_msg_encode_fail, logd_stats_system_logs, logd_stats_system_logs_dropped, logd_stats_audit_logs, logd_stats_audit_logs_dropped

log-parameterization

Specification	Value
Type	*object*

log-rate

Description Max number of parameterized logs sent per second

Type: number

Range: 0-10000

Default: 10

message-selector

Description: message-selector is a **JSON Block**. Please see below for *log-parameterization_message-selector*

Type: Object

Reference Object: */axapi/v3/acos-events/log-parameterization/message-selector*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

log-parameterization_message-selector

Specification	Value
Type	*object*

rule-list

Type: List

Reference Object: */axapi/v3/acos-events/log-parameterization/message-selector/rule/{index}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

log-parameterization_message-selector_rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'send': log messages selected by this rule will be sent (Default); 'drop': log messages selected by this rule will be dropped;

Type: string

Supported Values: send, drop

Default: send

index

Description Specify rule index - rules are applied in numeric order

Type: number

Range: 1-256

message-id

Description Select a specific message by message-id and optionally severity

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

message-id-scope

Description 'all': Log messages at this level and all sub-trees; 'node-only': Log messages at this node only; 'children-only': Log messages at all sub-trees only; 'log-field-only': Log message for this Log Field only;

Type: string

Supported Values: all, node-only, children-only, log-field-only

severity-oper

Description 'equal-and-higher': emergency is highest, debugging lowest; 'equal': single severity;

Type: string

Supported Values: equal-and-higher, equal

severity-val

Description 'emergency': System unusable log messages (Most Important); 'alert': Action must be taken immediately; 'critical': Critical conditions; 'error': Error conditions; 'warning': Warning conditions; 'notification': Normal but significant conditions; 'information': Informational messages; 'debugging': Debug level messages (Least Important);

Type: string

Supported Values: emergency, alert, critical, error, warning, notification, information, debugging

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

use-partition

Specification	Value
Type	*object*

partition-name

Description Select partition name for logging

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/partition*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

active-template

Specification	Value
Type	*object*

name

Description Specify the logging template name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/acos-events/template*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logdb

Specification	Value
Type	*object*

enable-all

Description Enable logging for all widgets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-cgn

Description Enable CGN logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-fw

Description Enable Firewall logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-http-forward-proxy

Description Enable HTTP forward proxy logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-link-cost

Description Enable link-cost logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-mqtt

Description Enable MQTT logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-smtp

Description Enable SMTP logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-ssli

Description Enable SSLi logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

messages

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

local-logging

Specification	Value
Type	*object*

delete-old-logs-in-disk

Description Operational command to delete the old logs stored in disk

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable

Description Enable local-logging when FW log servers are down (Default: Not enabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-disk-space

Description Configure Max disk space in MB to be used for storing the logs (Default: 100MB)

Type: number

Range: 50-20000

Default: 100

rate-limit

Description Configure number of logs per second to be stored in disk (Default: 1000)

Type: number

Range: 1-60000

Default: 1000

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

local-logging_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'init-pass': Local logging Init Successful; 'init-fail': Local logging Init Fail; 'freed': Local logging Stopped; 'disk-over-thres': Number of logs Dropped, Disk reached threshold; 'rate-limited': Number of logs Dropped, Rate limited; 'not-inited': Number of logs Dropped, Local logging not inited; 'sent-to-store': Number of logs sent to be stored; 'sent-to-store-fail': Number of Logs sent to be stored Failed; 'store-fail': Number of logs failed to be stored; 'in-logs': Number of logs successfully stored; 'in-bytes': Number of bytes successfully stored; 'in-logs-backlog': Number of backlogs loaded from disk; 'in-bytes-backlog': Number of backlog bytes loaded from disk; 'in-store-fail-no-space': Number of logs Dropped, failed without disk space; 'in-discard-logs': Number of old logs discarded to fit in new logs; 'in-discard-bytes': Number of old bytes discarded to fit in new logs; 'out-logs': Number of logs sent to log servers; 'out-bytes': Number of bytes sent to log-servers; 'out-error': Number of

errors during send; 'remaining-logs': Total number of remaining logs yet to be sent; 'remaining-bytes': Total number of remaining bytes yet to be sent; 'moved-to-delq': Local Logging moved to delq to be deleted; 'out-retry': Number of attempted retries to send logs; 'out-retry-fail': Number of retries failed with error; 'curr-total-chunks': Current Number of blocks; 'curr-mem-chunks': Current blocks in memory; 'curr-fs-chunks': Current blocks in file system; 'curr-fs-chunks-up': Current blocks in file system loaded in memory; 'curr-fs-chunks-down': Current blocks in file system not loaded in memory; 'in-logs-agg': Total Aggregate, Number of logs successfully stored; 'in-bytes-agg': Total Aggregate, Number of bytes successfully stored; 'in-logs-backlog-agg': Total Aggregate, Number of backlogs loaded from disk; 'in-bytes-backlog-agg': Total Aggregate, Number of backlog bytes loaded from disk; 'in-store-fail-no-space-agg': Total Aggregate, Number of logs Dropped, failed without disk space; 'in-discard-logs-agg': Total Aggregate, Number of old logs discarded to fit in new logs; 'in-discard-bytes-agg': Total Aggregate, Number of old bytes discarded to fit in new logs; 'out-logs-agg': Total Aggregate, Number of logs sent to log servers; 'out-bytes-agg': Total Aggregate, Number of bytes sent to log-servers; 'out-error-agg': Total Aggregate, Number of errors during send; 'out-retry-agg': Total Aggregate, Number of attempted retries to send logs; 'out-retry-fail-agg': Total Aggregate, Number of retries failed with error; 'in-logs-curr-agg': Current Aggregate, Number of logs successfully stored; 'in-bytes-curr-agg': Current Aggregate, Number of bytes successfully stored; 'in-logs-backlog-curr-agg': Current Aggregate, Number of backlogs loaded from disk; 'in-bytes-backlog-curr-agg': Current Aggregate, Number of backlog bytes loaded from disk; 'in-discard-logs-curr-agg': Current Aggregate, Number of old logs discarded to fit in new logs; 'in-discard-bytes-curr-agg': Current Aggregate, Number of old bytes discarded to fit in new logs; 'out-logs-curr-agg': Current Aggregate, Number of logs sent to log servers; 'out-bytes-curr-agg': Current Aggregate, Number of bytes sent to log-servers;

Type: string

Supported Values: all, init-pass, init-fail, freed, disk-over-thres, rate-limited, not-inited, sent-to-store, sent-to-store-fail, store-fail, in-logs, in-bytes, in-logs-backlog, in-bytes-backlog, in-store-fail-no-space, in-discard-logs, in-discard-bytes, out-logs, out-bytes, out-error, remaining-logs, remaining-bytes, moved-to-delq, out-retry, out-retry-fail, curr-total-chunks, curr-mem-chunks, curr-fs-chunks, curr-fs-chunks-up, curr-fs-chunks-down, in-logs-agg, in-bytes-agg, in-logs-backlog-agg, in-bytes-backlog-agg, in-store-fail-no-space-agg, in-discard-logs-agg, in-discard-bytes-agg, out-logs-agg, out-bytes-agg, out-error-agg, out-retry-agg, out-retry-fail-agg, in-logs-curr-agg, in-bytes-curr-agg, in-logs-backlog-curr-agg, in-bytes-backlog-curr-agg, in-discard-logs-curr-agg, in-discard-bytes-curr-agg, out-logs-curr-agg, out-bytes-curr-agg

message-id-list

Specification	Value
Type	*list*
Block object keys	

log-msg

Description Specify log message-id lineage

Type: string

Maximum Length: 512 characters

Maximum Length: 1 characters

message-id-scope-route

Description 'all': Log messages at this level and all sub-trees; 'node-only': Log messages at this node only; 'children-only': Log messages at all sub-trees only; 'log-field-only': This is a log-field (Default);

Type: string

Supported Values: all, node-only, children-only, log-field-only

Default: log-field-only

property

Description: property is a **JSON Block**. Please see below for *message-id-list_property*

Type: Object

Reference Object: */axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

message-id-list_property

Specification	Value
Type	*object*

log-route

Description: log-route is a **JSON Block**. Please see below for *message-id-list_property_log-route*

Type: Object

Reference Object: */axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/log-route*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *message-id-list_property_rate-limit*

Type: Object

Reference Object: */axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/rate-limit*

severity

Description: severity is a **JSON Block**. Please see below for *message-id-list_property_severity*

Type: Object

Reference Object: */axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/severity*

message-id-list_property_log-route

Specification	Value
Type	*object*

log-route-val

Description 'local-only': send logs to local-only; 'remote-only': send logs to remote-only; 'local-and-remote': send logs to both local and remote;

Type: string

Supported Values: local-only, remote-only, local-and-remote

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

message-id-list_property_severity

Specification	Value
Type	*object*

severity-val

Description 'emergency': System unusable log messages (Most Important); 'alert': Action must be taken immediately; 'critical': Critical conditions; 'error': Error conditions; 'warning': Warning conditions; 'notification': Normal but significant conditions; 'information': Informational messages; 'debugging': Debug level messages (Least Important);

Type: string

Supported Values: emergency, alert, critical, error, warning, notification, information, debugging

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

message-id-list_property_rate-limit

Specification	Value
Type	*object*

rate-limit-val

Description 'enable': enable rate-limiting of logs; 'disable': disable rate-limiting of logs;

Type: string

Supported Values: enable, disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

log-properties

Specification	Value
Type	*object*

add-msgid-in-header

Description Add Message ID in log messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-8K-tcp-syslog

Description Enable 8K size remote TCP syslog

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-millisec

Description Enable timestamp in millisecond

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

use-iso8601-timestamp

Description Send syslog messages with Standard Header format

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

log-server-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'enable': Enable this Logging Server; 'disable': Disable this Logging Server;

Type: string

Supported Values: enable, disable

Default: enable

health-check

Description Health Check Monitor (Health monitor name)

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

host

Description IP Address

Type: string

Format: ipv4-address

name

Description Server Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Type: List

Reference Object: */axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}*

resolve-as

Description 'resolve-to-ipv4': Use A Query only to resolve FQDN; 'resolve-to-ipv6': Use AAAA Query only to resolve FQDN; 'resolve-to-ipv4-and-ipv6': Use A as well as AAAA Query to resolve FQDN;

Type: string

Supported Values: resolve-to-ipv4, resolve-to-ipv6, resolve-to-ipv4-and-ipv6

Default: resolve-to-ipv4

sampling-enable

Type: List

server-ipv6-addr

Description IPV6 address

Type: string

Format: ipv6-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

log-server-list_port-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable health check

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

port-number

Description Port Number

Type: number

Range: 0-65534

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

log-server-list_port-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msgs_sent': Number of log messages sent;

Type: string

Supported Values: all, msgs_sent

log-server-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msgs_sent': Number of log messages sent;

Type: string

Supported Values: all, msgs_sent

rate-limit-local

Specification	Value
Type	*object*

limit

Description Configure Rate Limit for Local logs

Type: number

Range: 0-100

Default: 32

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

collector-group-list

Specification	Value
Type	*list*
Block object keys	

facility

Description 'local0': Local use(Default); 'local1': Local use; 'local2': Local use; 'local3': Local use; 'local4': Local use; 'local5': Local use; 'local6': Local use; 'local7': Local use; (Facility parameter for syslog messages)

Type: string

Supported Values: local0, local1, local2, local3, local4, local5, local6, local7

Default: local0

format

Description 'syslog': log message format is syslog (Default); 'cef': log message format is cef; 'leef': log message format is leef;

Type: string

Supported Values: syslog, cef, leef

Default: syslog

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

log-distribution

Description 'round-robin': Log server selection will be based on round-robin (Default); 'hashing': Log messages at this node only;

Type: string

Supported Values: round-robin, hashing

Default: round-robin

log-server-list

Type: List

Reference Object: */axapi/v3/acos-events/collector-group/{name}/log-server/{name}+{port}*

name

Description Specify log server group name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

protocol

Description 'udp': use udp syslog protocol to send messages to log collector; 'tcp': use tcp syslog protocol to send messages to log collector;

Type: string

Supported Values: udp, tcp

rate

Description Specify the log message rate per second(Default 500)

Type: number

Range: 0-2147483647

Default: 500

sampling-enable

Type: List

server-distribution-hash

Description 'name': Hashing will be based on log server name (Default); 'ip-tuple': Hashing will be based on ip-tuple;

Type: string

Supported Values: name, ip-tuple

Default: name

use-mgmt-port

Description Use managament port to connect to the log servers

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

collector-group-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msgs_sent': Number of log messages sent; 'msgs_rate_limited': Number of rate limited log messages; 'msgs_dropped': Number of messages dropped for other reasons;

Type: string

Supported Values: all, msgs_sent, msgs_rate_limited, msgs_dropped

collector-group-list_log-server-list

Specification	Value
Type	*list*
Block object keys	

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/acos-events/log-server*

port

Description Port number

Type: number

Range: 0-65534

Default: 65534

Reference Object: */axapi/v3/acos-events/log-server/port*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template-list

Specification	Value
Type	*list*
Block object keys	

message-selector-list

Type: List

Reference Object: */axapi/v3/acos-events/template/{name}/message-selector/{name}*

name

Description Specify logging template name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template-list_message-selector-list

Specification	Value
Type	*list*
Block object keys	

collector-group-list

Type: List

Reference Object: */axapi/v3/acos-events/template/{name}/message-selector/{name}/collector-group/{name}*

name

Description Specify the message selector name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/acos-events/message-selector*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template-list_message-selector-list_collector-group-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify the log server group for receiving log messages

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/acos-events/collector-group*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

message-selector-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify message selector name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-list

Type: List

Reference Object: */axapi/v3/acos-events/message-selector/{name}/rule/{index}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

message-selector-list_rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'send': log messages selected by this rule will be sent; 'drop': log messages selected by this rule will be dropped;

Type: string

Supported Values: send, drop

Default: send

index

Description Specify rule index - rules are applied in numeric order

Type: number

Range: 1-256

message-id

Description Select a specific message by message-id and optionally severity

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

message-id-scope

Description 'all': Log messages at this level and all sub-trees; 'node-only': Log messages at this node only; 'children-only': Log messages at all sub-trees only; 'log-field-only': Log message for this Log Field only;

Type: string

Supported Values: all, node-only, children-only, log-field-only

severity-oper

Description 'equal-and-higher': emergency is highest, debugging lowest; 'equal': single severity;

Type: string

Supported Values: equal-and-higher, equal

severity-val

Description 'emergency': System unusable log messages (Most Important); 'alert': Action must be taken immediately; 'critical': Critical conditions; 'error': Error conditions; 'warning': Warning conditions; 'notification': Normal but significant conditions; 'information': Informational messages; 'debugging': Debug level messages (Least Important);

Type: string

Supported Values: emergency, alert, critical, error, warning, notification, information, debugging

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.2 acos-events active-template

Configure global logging template

active-template Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	active-template
Element URI	/axapi/v3/acos-events/active-template
Element Attributes	active-template_attributes
Partition Visibility	shared
Schema	`active-template schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/active-template

active-template attributes

```
POST /axapi/v3/acos-events/active-template
Payload:
{
    "active-template": {
        "name": "a"
    }
}
```

Get Object

GET

/axapi/v3/acos-events/active-template

active-template attributes

```
GET /axapi/v3/acos-events/active-template
Reponse:
{
    "active-template": {
        "name": "a",
        "uuid": "c6a84534-b6ab-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/acos-events/active-template"
    }
}
```

Modify Object

POST

/axapi/v3/acos-events/active-template

active-template attributes

Replace Object

PUT

/axapi/v3/acos-events/active-template

active-template attributes

```
PUT /axapi/v3/acos-events/active-template
Payload:
{
    "active-template": {
        "name": "a"
    }
}
```

Delete Object

DELETE

/axapi/v3/acos-events/active-template

active-template attributes

```
DELETE /axapi/v3/acos-events/active-template
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

active-template attributes

name

Description Specify the logging template name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/acos-events/template*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.3 acos-events collector-group

Configure log servers group

collector-group Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*collector-group-list*
Collection URI	/axapi/v3/acos-events/collector-group
Element Name	collector-group
Element URI	/axapi/v3/acos-events/collector-group/{name}
Element Attributes	collector-group_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/acos-events/collector-group/{name}/stats
Schema	`collector-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/collector-group

collector-group attributes

```
POST /axapi/v3/acos-events/collector-group/
Payload:
{
    "collector-group": {
        "protocol": "udp",
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/acos-events/collector-group

collector-group attributes

Get Object

GET

/axapi/v3/acos-events/collector-group/{name}

collector-group attributes

Get List

GET

/axapi/v3/acos-events/collector-group

collector-group-list

Modify Object

POST

/axapi/v3/acos-events/collector-group/{name}

collector-group attributes

Replace Object

PUT

/axapi/v3/acos-events/collector-group/{name}

collector-group attributes

Replace List

PUT

/axapi/v3/acos-events/collector-group

collector-group-list

Delete Object

DELETE

/axapi/v3/acos-events/collector-group/{name}

collector-group attributes

collector-group-list

collector-group-list is **JSON List** of *collector-group attributes*

collector-group-list : [

{ *collector-group attributes* },

{ *collector-group attributes* },

...

]

collector-group attributes

facility

Description 'local0': Local use(Default); 'local1': Local use; 'local2': Local use; 'local3': Local use; 'local4': Local use; 'local5': Local use; 'local6': Local use; 'local7': Local use; (Facility parameter for syslog messages)

Type: string

Supported Values: local0, local1, local2, local3, local4, local5, local6, local7

Default: local0

format

Description 'syslog': log message format is syslog (Default); 'cef': log message format is cef; 'leef': log message format is leef;

Type: string

Supported Values: syslog, cef, leef

Default: syslog

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

log-distribution

Description 'round-robin': Log server selection will be based on round-robin (Default); 'hashing': Log messages at this node only;

Type: string

Supported Values: round-robin, hashing

Default: round-robin

log-server-list

Type: List

Reference Object: */axapi/v3/acos-events/collector-group/{name}/log-server/{name}+{port}*

name

Description Specify log server group name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

protocol

Description 'udp': use udp syslog protocol to send messages to log collector; 'tcp': use tcp syslog protocol to send messages to log collector;

Type: string

Supported Values: udp, tcp

rate

Description Specify the log message rate per second(Default 500)

Type: number

Range: 0-2147483647

Default: 500

sampling-enable

Type: List

server-distribution-hash

Description 'name': Hashing will be based on log server name (Default); 'ip-tuple': Hashing will be based on ip-tuple;

Type: string

Supported Values: name, ip-tuple

Default: name

use-mgmt-port

Description Use managament port to connect to the log servers

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msgs_sent': Number of log messages sent; 'msgs_rate_limited': Number of rate limited log messages; 'msgs_dropped': Number of messages dropped for other reasons;

Type: string

Supported Values: all, msgs_sent, msgs_rate_limited, msgs_dropped

log-server-list

Specification	Value
Type	*list*
Block object keys	

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/acos-events/log-server*

port

Description Port number

Type: number

Range: 0-65534

Default: 65534

Reference Object: */axapi/v3/acos-events/log-server/port*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.4 acos-events collector-group log-server

Configure log server DNS Name/ip-address and optional port

log-server Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name, port*
Collection Name	*log-server-list*
Collection URI	/axapi/v3/acos-events/collector-group/{name}/log-server
Element Name	log-server
Element URI	/axapi/v3/acos-events/collector-group/{name}/log-server/{name}+{port}
Element Attributes	log-server_attributes
Partition Visibility	shared
Schema	`log-server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/collector-group/{name}/log-server

log-server attributes

Create List

POST

/axapi/v3/acos-events/collector-group/{name}/log-server

log-server attributes

Get Object

GET

/axapi/v3/acos-events/collector-group/{name}/log-server/{name}+{port}

log-server attributes

Get List

GET

/axapi/v3/acos-events/collector-group/{name}/log-server

log-server-list

Modify Object

POST

/axapi/v3/acos-events/collector-group/{name}/log-server/{name}+{port}

log-server attributes

Replace Object

PUT

/axapi/v3/acos-events/collector-group/{name}/log-server/{name}+{port}

log-server attributes

Replace List

PUT

/axapi/v3/acos-events/collector-group/{name}/log-server

log-server-list

Delete Object

DELETE

/axapi/v3/acos-events/collector-group/{name}/log-server/{name}+{port}

log-server attributes

log-server-list

log-server-list is **JSON List** of *log-server attributes*

log-server-list : [

{ *log-server attributes* },

{ *log-server attributes* },

...

]

log-server attributes

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/acos-events/log-server*

port

Description Port number

Type: number

Range: 0-65534

Default: 65534

Reference Object: */axapi/v3/acos-events/log-server/port*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.5 acos-events collector-group stats

Statistics for the object collector-group

collector-group Specification

Parameter	Value
Type	*Collection*
Collection Name	*collector-group-list*
Collection URI	/axapi/v3/acos-events/collector-group/{name}
Element Name	collector-group
Element URI	/axapi/v3/acos-events/collector-group/{name}/stats
Element Attributes	collector-group_attributes
Partition Visibility	None
Schema	`collector-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/collector-group/{name}

collector-group attributes

Create List

POST

/axapi/v3/acos-events/collector-group/{name}

collector-group attributes

Get Object

GET

/axapi/v3/acos-events/collector-group/{name}/stats

collector-group attributes

Get List

GET

/axapi/v3/acos-events/collector-group/{name}

collector-group-list

Modify Object

POST

/axapi/v3/acos-events/collector-group/{name}/stats

collector-group attributes

Replace Object

PUT

/axapi/v3/acos-events/collector-group/{name}/stats

collector-group attributes

Replace List

PUT

/axapi/v3/acos-events/collector-group/{name}

collector-group-list

Delete Object

DELETE

/axapi/v3/acos-events/collector-group/{name}/stats

collector-group attributes

collector-group-list

collector-group-list is **JSON List** of *collector-group attributes*

collector-group-list : [

{ *collector-group attributes* },

{ *collector-group attributes* },

...

]

collector-group attributes

name

Description Specify log server group name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

msgs_sent

Description Number of log messages sent

Type: number

Format: counter

2.5.6 acos-events local-logging

Configure local logging/persistant storage of FW logs

local-logging Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	local-logging
Element URI	/axapi/v3/acos-events/local-logging
Element Attributes	local-logging_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/acos-events/local-logging/stats
Schema	`local-logging schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/local-logging

local-logging attributes

```
POST /axapi/v3/acos-events/local-logging
Payload:
{
    "local-logging": {
        "enable": 1
    }
}
```

Get Object

GET

/axapi/v3/acos-events/local-logging

local-logging attributes

```
GET /axapi/v3/acos-events/local-logging
Reponse:
{
    "local-logging": {
        "enable": 1,
        "rate-limit": 1000,
        "max-disk-space": 100,
        "uuid": "8992a702-b6a6-11ef-b71b-ae71681635d0",
        "a10-url": "/axapi/v3/acos-events/local-logging"
    }
}
```

Modify Object

POST

/axapi/v3/acos-events/local-logging

local-logging attributes

Replace Object

PUT

/axapi/v3/acos-events/local-logging

local-logging attributes

```
PUT /axapi/v3/acos-events/local-logging
Payload:
{
    "local-logging": {
        "enable": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/acos-events/local-logging

local-logging attributes

```
DELETE /axapi/v3/acos-events/local-logging
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

local-logging attributes

delete-old-logs-in-disk

Description Operational command to delete the old logs stored in disk

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable

Description Enable local-logging when FW log servers are down (Default: Not enabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-disk-space

Description Configure Max disk space in MB to be used for storing the logs (Default: 100MB)

Type: number

Range: 50-20000

Default: 100

rate-limit

Description Configure number of logs per second to be stored in disk (Default: 1000)

Type: number

Range: 1-60000

Default: 1000

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'init-pass': Local logging Init Successful; 'init-fail': Local logging Init Fail; 'freed': Local logging Stopped; 'disk-over-thres': Number of logs Dropped, Disk reached threshold; 'rate-limited': Number of logs Dropped, Rate limited; 'not-inited': Number of logs Dropped, Local logging not inited; 'sent-to-store': Number of logs sent to be stored; 'sent-to-store-fail': Number of Logs sent to be stored Failed; 'store-fail': Number of logs failed to be stored; 'in-logs': Number of logs successfully stored; 'in-bytes': Number of bytes successfully stored; 'in-logs-backlog': Number of backlogs loaded from disk; 'in-bytes-backlog': Number of backlog bytes loaded from disk; 'in-store-fail-no-space': Number of logs Dropped, failed without disk space; 'in-discard-logs': Number of old logs discarded to fit in new logs; 'in-discard-bytes': Number of old bytes discarded to fit in new logs; 'out-logs': Number of logs sent to log servers; 'out-bytes': Number of bytes sent to log-servers; 'out-error': Number of errors during send; 'remaining-logs': Total number of remaining logs yet to be sent; 'remaining-bytes': Total number of remaining bytes yet to be sent; 'moved-to-delq': Local Logging moved to delq to be deleted; 'out-retry': Number of attempted retries to send logs; 'out-retry-fail':

Number of retries failed with error; 'curr-total-chunks': Current Number of blocks; 'curr-mem-chunks': Current blocks in memory; 'curr-fs-chunks': Current blocks in file system; 'curr-fs-chunks-up': Current blocks in file system loaded in memory; 'curr-fs-chunks-down': Current blocks in file system not loaded in memory; 'in-logs-agg': Total Aggregate, Number of logs successfully stored; 'in-bytes-agg': Total Aggregate, Number of bytes successfully stored; 'in-logs-backlog-agg': Total Aggregate, Number of backlogs loaded from disk; 'in-bytes-backlog-agg': Total Aggregate, Number of backlog bytes loaded from disk; 'in-store-fail-no-space-agg': Total Aggregate, Number of logs Dropped, failed without disk space; 'in-discard-logs-agg': Total Aggregate, Number of old logs discarded to fit in new logs; 'in-discard-bytes-agg': Total Aggregate, Number of old bytes discarded to fit in new logs; 'out-logs-agg': Total Aggregate, Number of logs sent to log servers; 'out-bytes-agg': Total Aggregate, Number of bytes sent to log-servers; 'out-error-agg': Total Aggregate, Number of errors during send; 'out-retry-agg': Total Aggregate, Number of attempted retries to send logs; 'out-retry-fail-agg': Total Aggregate, Number of retries failed with error; 'in-logs-curr-agg': Current Aggregate, Number of logs successfully stored; 'in-bytes-curr-agg': Current Aggregate, Number of bytes successfully stored; 'in-logs-backlog-curr-agg': Current Aggregate, Number of backlogs loaded from disk; 'in-bytes-backlog-curr-agg': Current Aggregate, Number of backlog bytes loaded from disk; 'in-discard-logs-curr-agg': Current Aggregate, Number of old logs discarded to fit in new logs; 'in-discard-bytes-curr-agg': Current Aggregate, Number of old bytes discarded to fit in new logs; 'out-logs-curr-agg': Current Aggregate, Number of logs sent to log servers; 'out-bytes-curr-agg': Current Aggregate, Number of bytes sent to log-servers;

Type: string

Supported Values: all, init-pass, init-fail, freed, disk-over-thres, rate-limited, not-inited, sent-to-store, sent-to-store-fail, store-fail, in-logs, in-bytes, in-logs-backlog, in-bytes-backlog, in-store-fail-no-space, in-discard-logs, in-discard-bytes, out-logs, out-bytes, out-error, remaining-logs, remaining-bytes, moved-to-delq, out-retry, out-retry-fail, curr-total-chunks, curr-mem-chunks, curr-fs-chunks, curr-fs-chunks-up, curr-fs-chunks-down, in-logs-agg, in-bytes-agg, in-logs-backlog-agg, in-bytes-backlog-agg, in-store-fail-no-space-agg, in-discard-logs-agg, in-discard-bytes-agg, out-logs-agg, out-bytes-agg, out-error-agg, out-retry-agg, out-retry-fail-agg, in-logs-curr-agg, in-bytes-curr-agg, in-logs-backlog-curr-agg, in-bytes-backlog-curr-agg, in-discard-logs-curr-agg, in-discard-bytes-curr-agg, out-logs-curr-agg, out-bytes-curr-agg

2.5.7 acos-events local-logging stats

Statistics for the object local-logging

local-logging Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	local-logging
Element URI	/axapi/v3/acos-events/local-logging/stats
Element Attributes	local-logging_attributes
Partition Visibility	None
Schema	`local-logging schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/local-logging/stats

local-logging attributes

Get Object

GET

/axapi/v3/acos-events/local-logging/stats

local-logging attributes

Modify Object

POST

/axapi/v3/acos-events/local-logging/stats

local-logging attributes

Replace Object

PUT

/axapi/v3/acos-events/local-logging/stats

local-logging attributes

Delete Object

DELETE

/axapi/v3/acos-events/local-logging/stats

local-logging attributes

local-logging attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

disk-over-thres

Description Number of logs Dropped, Disk reached threshold

Type: number

Format: counter

freed

Description Local logging Stopped

Type: number

Format: counter

in-bytes

Description Number of bytes successfully stored

Type: number

Format: counter

in-bytes-backlog

Description Number of backlog bytes loaded from disk

Type: number

Format: counter

in-discard-bytes

Description Number of old bytes discarded to fit in new logs

Type: number

Format: counter

in-discard-logs

Description Number of old logs discarded to fit in new logs

Type: number

Format: counter

in-logs

Description Number of logs successfully stored

Type: number

Format: counter

in-logs-backlog

Description Number of backlogs loaded from disk

Type: number

Format: counter

in-store-fail-no-space

Description Number of logs Dropped, failed without disk space

Type: number

Format: counter

init-fail

Description Local logging Init Fail

Type: number

Format: counter

init-pass

Description Local logging Init Successful

Type: number

Format: counter

not-inited

Description Number of logs Dropped, Local logging not inited

Type: number

Format: counter

out-bytes

Description Number of bytes sent to log-servers

Type: number

Format: counter

out-error

Description Number of errors during send

Type: number

Format: counter

out-logs

Description Number of logs sent to log servers

Type: number

Format: counter

rate-limited

Description Number of logs Dropped, Rate limited

Type: number

Format: counter

remaining-bytes

Description Total number of remaining bytes yet to be sent

Type: number

Format: counter

remaining-logs

Description Total number of remaining logs yet to be sent

Type: number

Format: counter

sent-to-store

Description Number of logs sent to be stored

Type: number

Format: counter

sent-to-store-fail

Description Number of Logs sent to be stored Failed

Type: number

Format: counter

store-fail

Description Number of logs failed to be stored

Type: number

Format: counter

2.5.8 acos-events log-parameterization

Harmony controller log parameterization configuration

log-parameterization Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	log-parameterization
Element URI	/axapi/v3/acos-events/log-parameterization
Element Attributes	log-parameterization_attributes
Partition Visibility	shared
Schema	`log-parameterization schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/log-parameterization

log-parameterization attributes

```
POST /axapi/v3/acos-events/log-parameterization
Payload:
{
    "log-parameterization": {
        "log-rate": 0
    }
}
```

Get Object

GET

/axapi/v3/acos-events/log-parameterization

log-parameterization attributes

```
GET /axapi/v3/acos-events/log-parameterization
Reponse:
{
    "log-parameterization": {
        "log-rate": 0,
        "uuid": "de1a78da-b6ac-11ef-8f5a-ae71681635d0",
```

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```
        "a10-url": "/axapi/v3/acos-events/log-parameterization"
    }
}
```

Modify Object

POST

/axapi/v3/acos-events/log-parameterization

log-parameterization attributes

Replace Object

PUT

/axapi/v3/acos-events/log-parameterization

log-parameterization attributes

```
PUT /axapi/v3/acos-events/log-parameterization
Payload:
{
    "log-parameterization": {
        "log-rate": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/acos-events/log-parameterization

log-parameterization attributes

```
DELETE /axapi/v3/acos-events/log-parameterization
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

log-parameterization attributes

log-rate

Description Max number of parameterized logs sent per second

Type: number

Range: 0-10000

Default: 10

message-selector

Description: message-selector is a **JSON Block**. Please see below for *message-selector*

Type: Object

Reference Object: */axapi/v3/acos-events/log-parameterization/message-selector*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

message-selector

Specification	Value
Type	*object*

rule-list

Type: List

Reference Object: */axapi/v3/acos-events/log-parameterization/message-selector/rule/{index}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

message-selector_rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'send': log messages selected by this rule will be sent (Default); 'drop': log messages selected by this rule will be dropped;

Type: string

Supported Values: send, drop

Default: send

index

Description Specify rule index - rules are applied in numeric order

Type: number

Range: 1-256

message-id

Description Select a specific message by message-id and optionally severity

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

message-id-scope

Description 'all': Log messages at this level and all sub-trees; 'node-only': Log messages at this node only; 'children-only': Log messages at all sub-trees only; 'log-field-only': Log message for this Log Field only;

Type: string

Supported Values: all, node-only, children-only, log-field-only

severity-oper

Description 'equal-and-higher': emergency is highest, debugging lowest; 'equal': single severity;

Type: string

Supported Values: equal-and-higher, equal

severity-val

Description 'emergency': System unusable log messages (Most Important); 'alert': Action must be taken immediately; 'critical': Critical conditions; 'error': Error conditions; 'warning': Warning conditions; 'notification': Normal but significant conditions; 'information': Informational messages; 'debugging': Debug level messages (Least Important);

Type: string

Supported Values: emergency, alert, critical, error, warning, notification, information, debugging

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.9 acos-events log-parameterization message-selector

Configure message selector to select messages to be logged/blocked

message-selector Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	message-selector
Element URI	/axapi/v3/acos-events/log-parameterization/message-selector
Element Attributes	message-selector_attributes
Partition Visibility	shared
Schema	`message-selector schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/log-parameterization/message-selector

message-selector attributes

```
POST /axapi/v3/acos-events/log-parameterization/message-selector
Payload:
{
    "message-selector": {
        "rule-list": [
            {
                "index": 1,
                "user-tag": "a"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/acos-events/log-parameterization/message-selector

message-selector attributes

```
GET /axapi/v3/acos-events/log-parameterization/message-selector
Reponse:
{
    "message-selector": {
        "uuid": "feb2c6c4-b6ac-11ef-8f5a-ae71681635d0",
        "rule-list": [
            {
                "index": 1,
                "action": "send",
                "uuid": "feb2d538-b6ac-11ef-8f5a-ae71681635d0",
                "user-tag": "a",
                "a10-url": "/axapi/v3/acos-events/log-parameterization/message-selector/
↪rule/1"
            }
        ],
        "a10-url": "/axapi/v3/acos-events/log-parameterization/message-selector"
    }
}
```

Modify Object

POST

/axapi/v3/acos-events/log-parameterization/message-selector

message-selector attributes

Replace Object

PUT

/axapi/v3/acos-events/log-parameterization/message-selector

message-selector attributes

```
PUT /axapi/v3/acos-events/log-parameterization/message-selector
Payload:
{
    "message-selector": {
        "rule-list": [
            {
                "index": 1,
                "action": "drop"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/acos-events/log-parameterization/message-selector

message-selector attributes

message-selector attributes

rule-list

Type: List

Reference Object: */axapi/v3/acos-events/log-parameterization/message-selector/rule/{index}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'send': log messages selected by this rule will be sent (Default); 'drop': log messages selected by this rule will be dropped;

Type: string

Supported Values: send, drop

Default: send

index

Description Specify rule index - rules are applied in numeric order

Type: number

Range: 1-256

message-id

Description Select a specific message by message-id and optionally severity

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

message-id-scope

Description 'all': Log messages at this level and all sub-trees; 'node-only': Log messages at this node only; 'children-only': Log messages at all sub-trees only; 'log-field-only': Log message for this Log Field only;

Type: string

Supported Values: all, node-only, children-only, log-field-only

severity-oper

Description 'equal-and-higher': emergency is highest, debugging lowest; 'equal': single severity;

Type: string

Supported Values: equal-and-higher, equal

severity-val

Description 'emergency': System unusable log messages (Most Important); 'alert': Action must be taken immediately; 'critical': Critical conditions; 'error': Error conditions; 'warning': Warning conditions; 'notification': Normal but significant conditions; 'information': Informational messages; 'debugging': Debug level messages (Least Important);

Type: string

Supported Values: emergency, alert, critical, error, warning, notification, information, debugging

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.10 acos-events log-parameterization message-selector rule

Configure rules to select messages for which logging is enabled/blocked

rule Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*index*
Collection Name	*rule-list*
Collection URI	/axapi/v3/acos-events/log-parameterization/message-selector/rule
Element Name	rule
Element URI	/axapi/v3/acos-events/log-parameterization/message-selector/rule/{index}
Element Attributes	rule_attributes
Partition Visibility	shared
Schema	`rule schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/log-parameterization/message-selector/rule

rule attributes

```
POST /axapi/v3/acos-events/log-parameterization/message-selector/rule/
Payload:
{
    "rule": {
        "index": 1,
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/acos-events/log-parameterization/message-selector/rule

rule attributes

Get Object

GET

/axapi/v3/acos-events/log-parameterization/message-selector/rule/{index}

rule attributes

```
GET /axapi/v3/acos-events/log-parameterization/message-selector/rule/1
Reponse:
{
    "rule": {
        "index": 1,
        "action": "send",
        "uuid": "2047b358-b6ad-11ef-8f5a-ae71681635d0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/acos-events/log-parameterization/message-selector/rule/1"
    }
}
```

Get List

GET

/axapi/v3/acos-events/log-parameterization/message-selector/rule

rule-list

Modify Object

POST

/axapi/v3/acos-events/log-parameterization/message-selector/rule/{index}

rule attributes

Replace Object

PUT

/axapi/v3/acos-events/log-parameterization/message-selector/rule/{index}

rule attributes

```
PUT /axapi/v3/acos-events/log-parameterization/message-selector/rule/1
Payload:
{
    "rule": {
        "index": 1,
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/acos-events/log-parameterization/message-selector/rule

rule-list

Delete Object

DELETE

/axapi/v3/acos-events/log-parameterization/message-selector/rule/{index}

rule attributes

```
DELETE /axapi/v3/acos-events/log-parameterization/message-selector/rule/1
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

rule-list

rule-list is **JSON List** of *rule attributes*

rule-list : [

{ *rule attributes* },

{ *rule attributes* },

...

]

rule attributes

action

Description 'send': log messages selected by this rule will be sent (Default); 'drop': log messages selected by this rule will be dropped;

Type: string

Supported Values: send, drop

Default: send

index

Description Specify rule index - rules are applied in numeric order

Type: number

Range: 1-256

message-id

Description Select a specific message by message-id and optionally severity

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

message-id-scope

Description 'all': Log messages at this level and all sub-trees; 'node-only': Log messages at this node only; 'children-only': Log messages at all sub-trees only; 'log-field-only': Log message for this Log Field only;

Type: string

Supported Values: all, node-only, children-only, log-field-only

severity-oper

Description 'equal-and-higher': emergency is highest, debugging lowest; 'equal': single severity;

Type: string

Supported Values: equal-and-higher, equal

severity-val

Description 'emergency': System unusable log messages (Most Important); 'alert': Action must be taken immediately; 'critical': Critical conditions; 'error': Error conditions; 'warning': Warning conditions; 'notification': Normal but significant conditions; 'information': Informational messages; 'debugging': Debug level messages (Least Important);

Type: string

Supported Values: emergency, alert, critical, error, warning, notification, information, debugging

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.11 acos-events log-properties

Configure Logging related properties

log-properties Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	log-properties
Element URI	/axapi/v3/acos-events/log-properties
Element Attributes	log-properties_attributes
Partition Visibility	shared
Schema	`log-properties schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/log-properties

log-properties attributes

Get Object

GET

/axapi/v3/acos-events/log-properties

log-properties attributes

Modify Object

POST

/axapi/v3/acos-events/log-properties

log-properties attributes

Replace Object

PUT

/axapi/v3/acos-events/log-properties

log-properties attributes

Delete Object

DELETE

/axapi/v3/acos-events/log-properties

log-properties attributes

log-properties attributes

add-msgid-in-header

Description Add Message ID in log messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-8K-tcp-syslog

Description Enable 8K size remote TCP syslog

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-millisec

Description Enable timestamp in millisecond

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

use-iso8601-timestamp

Description Send syslog messages with Standard Header format

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.12 acos-events log-server

Acos logging Server

log-server Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*log-server-list*
Collection URI	/axapi/v3/acos-events/log-server
Element Name	log-server
Element URI	/axapi/v3/acos-events/log-server/{name}
Element Attributes	log-server_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/acos-events/log-server/{name}/stats
Schema	`log-server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/log-server

log-server attributes

```
POST /axapi/v3/acos-events/log-server/
Payload:
{
    "log-server": {
        "name": "a",
        "server-ipv6-addr": "2003::1"
    }
}
```

Create List

POST

/axapi/v3/acos-events/log-server

log-server attributes

Get Object

GET

/axapi/v3/acos-events/log-server/{name}

log-server attributes

```
GET /axapi/v3/acos-events/log-server/a
Reponse:
```

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```
{
    "log-server": {
        "name": "a",
        "server-ipv6-addr": "2003::1",
        "action": "enable",
        "health-check-disable": 0,
        "uuid": "82fe330a-b6ad-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/acos-events/log-server/a"
    }
}
```

Get List

GET

/axapi/v3/acos-events/log-server

log-server-list

Modify Object

POST

/axapi/v3/acos-events/log-server/{name}

log-server attributes

Replace Object

PUT

/axapi/v3/acos-events/log-server/{name}

log-server attributes

```
PUT /axapi/v3/acos-events/log-server/a
Payload:
{
    "log-server": {
        "name": "a",
        "server-ipv6-addr": "2003::1"
    }
}
```

Replace List

PUT

/axapi/v3/acos-events/log-server

log-server-list

Delete Object

DELETE

/axapi/v3/acos-events/log-server/{name}

log-server attributes

```
DELETE /axapi/v3/acos-events/log-server/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

log-server-list

log-server-list is **JSON List** of *log-server attributes*

log-server-list : [

{ *log-server attributes* },

{ *log-server attributes* },

...

]

log-server attributes

action

Description 'enable': Enable this Logging Server; 'disable': Disable this Logging Server;

Type: string

Supported Values: enable, disable

Default: enable

health-check

Description Health Check Monitor (Health monitor name)

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

host

Description IP Address

Type: string

Format: ipv4-address

name

Description Server Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Type: List

Reference Object: */axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}*

resolve-as

Description 'resolve-to-ipv4': Use A Query only to resolve FQDN; 'resolve-to-ipv6': Use AAAA Query only to resolve FQDN; 'resolve-to-ipv4-and-ipv6': Use A as well as AAAA Query to resolve FQDN;

Type: string

Supported Values: resolve-to-ipv4, resolve-to-ipv6, resolve-to-ipv4-and-ipv6

Default: resolve-to-ipv4

sampling-enable

Type: List

server-ipv6-addr

Description IPV6 address

Type: string

Format: ipv6-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable health check

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

port-number

Description Port Number

Type: number

Range: 0-65534

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msgs_sent': Number of log messages sent;

Type: string

Supported Values: all, msgs_sent

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msgs_sent': Number of log messages sent;

Type: string

Supported Values: all, msgs_sent

2.5.13 acos-events log-server port

Logging Server Port

port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-number, protocol*
Collection Name	*port-list*
Collection URI	/axapi/v3/acos-events/log-server/{name}/port
Element Name	port
Element URI	/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}
Element Attributes	port_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}/stats
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/log-server/{name}/port

port attributes

Create List

POST

/axapi/v3/acos-events/log-server/{name}/port

port attributes

Get Object

GET

/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}

port attributes

Get List

GET

/axapi/v3/acos-events/log-server/{name}/port

port-list

Modify Object

POST

/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}

port attributes

Replace Object

PUT

/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}

port attributes

Replace List

PUT

/axapi/v3/acos-events/log-server/{name}/port

port-list

Delete Object

DELETE

/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}

port attributes

port-list

port-list is **JSON List** of *port attributes*

port-list : [

{ *port attributes* },

{ *port attributes* },

...

]

port attributes

action

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable health check

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

port-number

Description Port Number

Type: number

Range: 0-65534

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msgs_sent': Number of log messages sent;

Type: string

Supported Values: all, msgs_sent

2.5.14 acos-events log-server port stats

Statistics for the object port

port Specification

Parameter	Value
Type	*Collection*
Collection Name	*port-list*
Collection URI	/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}
Element Name	port
Element URI	/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}/stats
Element Attributes	port_attributes
Partition Visibility	None
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}

port attributes

Create List

POST

/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}

port attributes

Get Object

GET

/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}/stats

port attributes

Get List

GET

/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}

port-list

Modify Object

POST

/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}/stats

port attributes

Replace Object

PUT

/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}/stats

port attributes

Replace List

PUT

/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}

port-list

Delete Object

DELETE

/axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}/stats

port attributes

port-list

port-list is **JSON List** of *port attributes*

port-list : [

{ *port attributes* },

{ *port attributes* },

...

]

port attributes

port-number

Description Port Number

Type: number

Range: 0-65534

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

stats

Type: Object

2.5.15 acos-events log-server stats

Statistics for the object log-server

log-server Specification

Parameter	Value
Type	*Collection*
Collection Name	*log-server-list*
Collection URI	/axapi/v3/acos-events/log-server/{name}
Element Name	log-server
Element URI	/axapi/v3/acos-events/log-server/{name}/stats
Element Attributes	log-server_attributes
Partition Visibility	None
Schema	`log-server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/log-server/{name}

log-server attributes

Create List

POST

/axapi/v3/acos-events/log-server/{name}

log-server attributes

Get Object

GET

/axapi/v3/acos-events/log-server/{name}/stats

log-server attributes

Get List

GET

/axapi/v3/acos-events/log-server/{name}

log-server-list

Modify Object

POST

/axapi/v3/acos-events/log-server/{name}/stats

log-server attributes

Replace Object

PUT

/axapi/v3/acos-events/log-server/{name}/stats

log-server attributes

Replace List

PUT

/axapi/v3/acos-events/log-server/{name}

log-server-list

Delete Object

DELETE

/axapi/v3/acos-events/log-server/{name}/stats

log-server attributes

log-server-list

log-server-list is **JSON List** of *log-server attributes*

log-server-list : [

{ *log-server attributes* },

{ *log-server attributes* },

...

]

log-server attributes

name

Description Server Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Type: List

Reference Object: */axapi/v3/acos-events/log-server/{name}/port/{port-number}+{protocol}*

stats

Type: Object

port-list

Specification	Value
Type	*list*
Block object keys	

port-number

Description Port Number

Type: number

Range: 0-65534

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

stats

Type: Object

2.5.16 acos-events logdb

Configure global logging template

logdb Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	logdb
Element URI	/axapi/v3/acos-events/logdb
Element Attributes	logdb_attributes
Partition Visibility	shared
Schema	`logdb schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/logdb

logdb attributes

```
POST /axapi/v3/acos-events/logdb
Payload:
{
    "logdb": {
        "enable-ssli": 1
```

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```
    }
}
```

Get Object

GET

/axapi/v3/acos-events/logdb

logdb attributes

```
GET /axapi/v3/acos-events/logdb
Reponse:
{
    "logdb": {
        "enable-ssli": 1,
        "enable-smtp": 0,
        "enable-mqtt": 0,
        "enable-fw": 0,
        "enable-http-forward-proxy": 0,
        "enable-link-cost": 0,
        "enable-cgn": 0,
        "uuid": "5f8488d8-b6ae-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/acos-events/logdb"
    }
}
```

Modify Object

POST

/axapi/v3/acos-events/logdb

logdb attributes

Replace Object

PUT

/axapi/v3/acos-events/logdb

logdb attributes

```
PUT /axapi/v3/acos-events/logdb
Payload:
{
    "logdb": {
        "enable-ssli": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/acos-events/logdb

logdb attributes

logdb attributes

enable-all

Description Enable logging for all widgets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-cgn

Description Enable CGN logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-fw

Description Enable Firewall logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-http-forward-proxy

Description Enable HTTP forward proxy logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-link-cost

Description Enable link-cost logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-mqtt

Description Enable MQTT logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-smtp

Description Enable SMTP logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-ssli

Description Enable SSLi logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.17 acos-events message-id

Configure log message

message-id Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*log-msg, message-id-scope-route*
Collection Name	*message-id-list*
Collection URI	/axapi/v3/acos-events/message-id
Element Name	message-id
Element URI	/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}
Element Attributes	message-id_attributes
Partition Visibility	shared
Schema	`message-id schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/message-id

message-id attributes

```
POST /axapi/v3/acos-events/message-id/
Payload:
{
    "message-id": {
        "message-id-scope-route": "all",
        "log-msg": "interface.ethernet.port-state"
    }
}
```

Create List

POST

/axapi/v3/acos-events/message-id

message-id attributes

Get Object

GET

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}

message-id attributes

Get List

GET

/axapi/v3/acos-events/message-id

message-id-list

Modify Object

POST

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}

message-id attributes

Replace Object

PUT

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}

message-id attributes

Replace List

PUT

/axapi/v3/acos-events/message-id

message-id-list

Delete Object

DELETE

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}

message-id attributes

message-id-list

message-id-list is **JSON List** of *message-id attributes*

message-id-list : [

{ *message-id attributes* },

{ *message-id attributes* },

…

]

message-id attributes

log-msg

Description Specify log message-id lineage

Type: string

Maximum Length: 512 characters

Maximum Length: 1 characters

message-id-scope-route

Description 'all': Log messages at this level and all sub-trees; 'node-only': Log messages at this node only; 'children-only': Log messages at all sub-trees only; 'log-field-only': This is a log-field (Default);

Type: string

Supported Values: all, node-only, children-only, log-field-only

Default: log-field-only

property

Description: property is a **JSON Block**. Please see below for *property*

Type: Object

Reference Object: */axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

property

Specification	Value
Type	*object*

log-route

Description: log-route is a **JSON Block**. Please see below for *property_log-route*

Type: Object

Reference Object: */axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/log-route*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *property_rate-limit*

Type: Object

Reference Object: */axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/rate-limit*

severity

Description: severity is a **JSON Block**. Please see below for *property_severity*

Type: Object

Reference Object: */axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/severity*

property_log-route

Specification	Value
Type	*object*

log-route-val

Description 'local-only': send logs to local-only; 'remote-only': send logs to remote-only; 'local-and-remote': send logs to both local and remote;

Type: string

Supported Values: local-only, remote-only, local-and-remote

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

property_severity

Specification	Value
Type	*object*

severity-val

Description 'emergency': System unusable log messages (Most Important); 'alert': Action must be taken immediately; 'critical': Critical conditions; 'error': Error conditions; 'warning':

Warning conditions; 'notification': Normal but significant conditions; 'information': Informational messages; 'debugging': Debug level messages (Least Important);

Type: string

Supported Values: emergency, alert, critical, error, warning, notification, information, debugging

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

property_rate-limit

Specification	Value
Type	*object*

rate-limit-val

Description 'enable': enable rate-limiting of logs; 'disable': disable rate-limiting of logs;

Type: string

Supported Values: enable, disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.18 acos-events message-id property

Configure log message(list) properties

property Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	property
Element URI	/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property
Element Attributes	property_attributes
Partition Visibility	shared
Schema	`property schema`

Operations Allowed:

Get Object

GET

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property

property_attributes

property attributes

log-route

Description: log-route is a **JSON Block**. Please see below for *log-route*

Type: Object

Reference Object: */axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/log-route*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *rate-limit*

Type: Object

Reference Object: */axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/rate-limit*

severity

Description: severity is a **JSON Block**. Please see below for *severity*

Type: Object

Reference Object: */axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/severity*

log-route

Specification	Value
Type	*object*

log-route-val

Description 'local-only': send logs to local-only; 'remote-only': send logs to remote-only; 'local-and-remote': send logs to both local and remote;

Type: string

Supported Values: local-only, remote-only, local-and-remote

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

severity

Specification	Value
Type	*object*

severity-val

Description 'emergency': System unusable log messages (Most Important); 'alert': Action must be taken immediately; 'critical': Critical conditions; 'error': Error conditions; 'warning': Warning conditions; 'notification': Normal but significant conditions; 'information': Informational messages; 'debugging': Debug level messages (Least Important);

Type: string

Supported Values: emergency, alert, critical, error, warning, notification, information, debugging

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rate-limit

Specification	Value
Type	*object*

rate-limit-val

Description 'enable': enable rate-limiting of logs; 'disable': disable rate-limiting of logs;

Type: string

Supported Values: enable, disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.19 acos-events message-id property log-route

Configure Log route of log message(s)

log-route Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	log-route
Element URI	/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/log-route
Element Attributes	log-route_attributes
Partition Visibility	shared
Schema	`log-route schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/log-route

log-route attributes

```
POST /axapi/v3/acos-events/message-id/interface.ethernet.port-state+all/property/log-
↪route
Payload:
{
    "log-route": {
        "log-route-val": "local-only"
    }
}
```

Get Object

GET

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/log-route

log-route attributes

Modify Object

POST

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/log-route

log-route attributes

Replace Object

PUT

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/log-route

log-route attributes

Delete Object

DELETE

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/log-route

log-route attributes

log-route attributes

log-route-val

Description 'local-only': send logs to local-only; 'remote-only': send logs to remote-only; 'local-and-remote': send logs to both local and remote;

Type: string

Supported Values: local-only, remote-only, local-and-remote

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.20 acos-events message-id property rate-limit

Enable/disable rate limiting of log message(s)

rate-limit Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rate-limit
Element URI	/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/rate-limit
Element Attributes	rate-limit_attributes
Partition Visibility	shared
Schema	`rate-limit schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/rate-limit

rate-limit attributes

```
POST /axapi/v3/acos-events/message-id/interface.ethernet.port-state+all/property/rate-
↪limit
Payload:
{
    "rate-limit": {
        "rate-limit-val": "enable"
    }
}
```

Get Object

GET

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/rate-limit

rate-limit attributes

```
GET /axapi/v3/acos-events/message-id/interface.ethernet.port-state+all/property/rate-
↪limit
Reponse:
{
    "rate-limit": {
        "rate-limit-val": "enable",
        "uuid": "54cb1748-099e-11f0-837c-5323f81e20fe",
        "a10-url": "/axapi/v3/acos-events/message-id/interface.ethernet.port-state+all/
↪property/rate-limit"
    }
}
```

Modify Object

POST

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/rate-limit

rate-limit attributes

Replace Object

PUT

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/rate-limit

rate-limit attributes

```
PUT /axapi/v3/acos-events/message-id/interface.ethernet.port-state+all/property/rate-
↪limit
Payload:
{
    "rate-limit": {
        "rate-limit-val": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/rate-limit

rate-limit attributes

rate-limit attributes

rate-limit-val

Description 'enable': enable rate-limiting of logs; 'disable': disable rate-limiting of logs;

Type: string

Supported Values: enable, disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.21 acos-events message-id property severity

Configure Serverity of log message(s)

severity Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	severity
Element URI	/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/severity
Element Attributes	severity_attributes
Partition Visibility	shared
Schema	`severity schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/severity

severity attributes

```
POST /axapi/v3/acos-events/message-id/interface.ethernet.port-state+all/property/severity
Payload:
{
    "severity": {
        "severity-val": "emergency"
    }
}
```

Get Object

GET

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/severity

severity attributes

Modify Object

POST

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/severity

severity attributes

Replace Object

PUT

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/severity

severity attributes

Delete Object

DELETE

/axapi/v3/acos-events/message-id/{log-msg}+{message-id-scope-route}/property/severity

severity attributes

severity attributes

severity-val

Description 'emergency': System unusable log messages (Most Important); 'alert': Action must be taken immediately; 'critical': Critical conditions; 'error': Error conditions; 'warning': Warning conditions; 'notification': Normal but significant conditions; 'information': Informational messages; 'debugging': Debug level messages (Least Important);

Type: string

Supported Values: emergency, alert, critical, error, warning, notification, information, debugging

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.22 acos-events message-selector

Configure message selector to select messages to be logged/blocked

message-selector Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*message-selector-list*
Collection URI	/axapi/v3/acos-events/message-selector
Element Name	message-selector
Element URI	/axapi/v3/acos-events/message-selector/{name}
Element Attributes	message-selector_attributes
Partition Visibility	shared
Schema	`message-selector schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/message-selector

message-selector attributes

```
POST /axapi/v3/acos-events/message-selector/
Payload:
{
    "message-selector": {
        "name": "a"
    }
}
```

Create List

POST

/axapi/v3/acos-events/message-selector

message-selector attributes

Get Object

GET

/axapi/v3/acos-events/message-selector/{name}

message-selector attributes

```
GET /axapi/v3/acos-events/message-selector/a/rule/1
Reponse:
{
    "rule": {
```

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```
        "index": 1,
        "action": "send",
        "uuid": "2c9f9952-b6af-11ef-8f5a-ae71681635d0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/acos-events/message-selector/a/rule/1"
    }
}
```

Get List

GET

/axapi/v3/acos-events/message-selector

message-selector-list

Modify Object

POST

/axapi/v3/acos-events/message-selector/{name}

message-selector attributes

Replace Object

PUT

/axapi/v3/acos-events/message-selector/{name}

message-selector attributes

```
PUT /axapi/v3/acos-events/message-selector/a/rule/1
Payload:
{
    "rule": {
        "index": 1,
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/acos-events/message-selector

message-selector-list

Delete Object

DELETE

/axapi/v3/acos-events/message-selector/{name}

message-selector attributes

```
DELETE /axapi/v3/acos-events/message-selector/a/rule/1
Reponse:
```

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```
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

message-selector-list

message-selector-list is **JSON List** of *message-selector attributes*

message-selector-list : [

{ *message-selector attributes* },

{ *message-selector attributes* },

...

]

message-selector attributes

name

Description Specify message selector name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-list

Type: List

Reference Object: */axapi/v3/acos-events/message-selector/{name}/rule/{index}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'send': log messages selected by this rule will be sent; 'drop': log messages selected by this rule will be dropped;

Type: string

Supported Values: send, drop

Default: send

index

Description Specify rule index - rules are applied in numeric order

Type: number

Range: 1-256

message-id

Description Select a specific message by message-id and optionally severity

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

message-id-scope

Description 'all': Log messages at this level and all sub-trees; 'node-only': Log messages at this node only; 'children-only': Log messages at all sub-trees only; 'log-field-only': Log message for this Log Field only;

Type: string

Supported Values: all, node-only, children-only, log-field-only

severity-oper

Description 'equal-and-higher': emergency is highest, debugging lowest; 'equal': single severity;

Type: string

Supported Values: equal-and-higher, equal

severity-val

Description 'emergency': System unusable log messages (Most Important); 'alert': Action must be taken immediately; 'critical': Critical conditions; 'error': Error conditions; 'warning': Warning conditions; 'notification': Normal but significant conditions; 'information': Informational messages; 'debugging': Debug level messages (Least Important);

Type: string

Supported Values: emergency, alert, critical, error, warning, notification, information, debugging

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.23 acos-events message-selector rule

Configure rules to select messages for which logging is enabled/blocked

rule Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*index*
Collection Name	*rule-list*
Collection URI	/axapi/v3/acos-events/message-selector/{name}/rule
Element Name	rule
Element URI	/axapi/v3/acos-events/message-selector/{name}/rule/{index}
Element Attributes	rule_attributes
Partition Visibility	shared
Schema	`rule schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/message-selector/{name}/rule

rule attributes

Create List

POST

/axapi/v3/acos-events/message-selector/{name}/rule

rule attributes

Get Object

GET

/axapi/v3/acos-events/message-selector/{name}/rule/{index}

rule attributes

Get List

GET

/axapi/v3/acos-events/message-selector/{name}/rule

rule-list

Modify Object

POST

/axapi/v3/acos-events/message-selector/{name}/rule/{index}

rule attributes

Replace Object

PUT

/axapi/v3/acos-events/message-selector/{name}/rule/{index}

rule attributes

Replace List

PUT

/axapi/v3/acos-events/message-selector/{name}/rule

rule-list

Delete Object

DELETE

/axapi/v3/acos-events/message-selector/{name}/rule/{index}

rule attributes

rule-list

rule-list is **JSON List** of *rule attributes*

```
rule-list : [
        { rule attributes },
        { rule attributes },
        ...
    ]
```

rule attributes

action

Description 'send': log messages selected by this rule will be sent; 'drop': log messages selected by this rule will be dropped;

Type: string

Supported Values: send, drop

Default: send

index

Description Specify rule index - rules are applied in numeric order

Type: number

Range: 1-256

message-id

Description Select a specific message by message-id and optionally severity

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

message-id-scope

Description 'all': Log messages at this level and all sub-trees; 'node-only': Log messages at this node only; 'children-only': Log messages at all sub-trees only; 'log-field-only': Log message for this Log Field only;

Type: string

Supported Values: all, node-only, children-only, log-field-only

severity-oper

Description 'equal-and-higher': emergency is highest, debugging lowest; 'equal': single severity;

Type: string

Supported Values: equal-and-higher, equal

severity-val

Description 'emergency': System unusable log messages (Most Important); 'alert': Action must be taken immediately; 'critical': Critical conditions; 'error': Error conditions; 'warning': Warning conditions; 'notification': Normal but significant conditions; 'information': Informational messages; 'debugging': Debug level messages (Least Important);

Type: string

Supported Values: emergency, alert, critical, error, warning, notification, information, debugging

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.24 acos-events messages

Get information about log message

messages Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	messages
Element URI	/axapi/v3/acos-events/messages
Element Attributes	messages_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/acos-events/messages/oper
Schema	`messages schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/messages

messages attributes

Get Object

GET

/axapi/v3/acos-events/messages

messages attributes

Modify Object

POST

/axapi/v3/acos-events/messages

messages attributes

Replace Object

PUT

/axapi/v3/acos-events/messages

messages attributes

Delete Object

DELETE

/axapi/v3/acos-events/messages

messages attributes

messages attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.25 acos-events messages oper

Operational Status for the object messages

messages Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	messages
Element URI	/axapi/v3/acos-events/messages/oper
Element Attributes	messages_attributes
Partition Visibility	None
Schema	`messages schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/messages/oper

messages attributes

Get Object

GET

/axapi/v3/acos-events/messages/oper

messages attributes

Modify Object

POST

/axapi/v3/acos-events/messages/oper

messages attributes

Replace Object

PUT

/axapi/v3/acos-events/messages/oper

messages attributes

Delete Object

DELETE

/axapi/v3/acos-events/messages/oper

messages attributes

messages attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

active-log-count

Description

Type: number

active-msgs

Description

Type: boolean

Supported Values: true, false, 1, 0

all-msgs

Description

Type: boolean

Supported Values: true, false, 1, 0

debug-msgs

Description

Type: boolean

Supported Values: true, false, 1, 0

message-id

Description

Type: string

message-id-scope

Description

Type: string

messages-list

Type: List

total-log-count

Description

Type: number

oper_messages-list

Specification	Value
Type	*list*
Block object keys	

cef

Description

Type: string

cef-collector-grps-list

Type: List

cef-importance

Description

Type: number

collector-group

Description

Type: string

configured-route

Description

Type: string

configured-severity

Description

Type: number

default-route

Description

Type: string

defined-severity

Description

Type: number

descriptive-name

Description

Type: string

disabled

Description

Type: number

enabled

Description

Type: number

leef

Description

Type: string

leef-collector-grps-list

Type: List

local

Description

Type: string

log-detail-list

Type: List

message-id

Description

Type: string

message-route

Description

Type: string

not-defined

Description

Type: number

rate-limiting

Description

Type: string

remote

Description

Type: string

signature

Description

Type: string

syslog

Description

Type: string

syslog-collector-grps-list

Type: List

trigger-reason

Description

Type: string

oper_messages-list_cef-collector-grps-list

Specification	Value
Type	*list*
Block object keys	

name

Description

Type: string

oper_messages-list_syslog-collector-grps-list

Specification	Value
Type	*list*
Block object keys	

name

Description

Type: string

oper_messages-list_leef-collector-grps-list

Specification	Value
Type	*list*
Block object keys	

name

Description

Type: string

oper_messages-list_log-detail-list

Specification	Value
Type	*list*
Block object keys	

collector-groups-list

Type: List

local-logging-conf

Description

Type: string

log-format

Description

Type: string

log-name

Description

Type: string

remote-logging-conf

Description

Type: string

oper_messages-list_log-detail-list_collector-groups-list

Specification	Value
Type	*list*
Block object keys	

name

Description

Type: string

2.5.26 acos-events rate-limit-local

Configure Rate Limit for Local logs

rate-limit-local Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rate-limit-local
Element URI	/axapi/v3/acos-events/rate-limit-local
Element Attributes	rate-limit-local_attributes
Partition Visibility	shared
Schema	`rate-limit-local schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/rate-limit-local

rate-limit-local attributes

```
POST /axapi/v3/acos-events/rate-limit-local
Payload:
{
    "rate-limit-local": {
        "limit": 0
    }
}
```

Get Object

GET

/axapi/v3/acos-events/rate-limit-local

rate-limit-local attributes

```
GET /axapi/v3/acos-events/rate-limit-local
Reponse:
{
    "rate-limit-local": {
        "limit": 0,
        "uuid": "79b4e80a-b6af-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/acos-events/rate-limit-local"
    }
}
```

Modify Object

POST

/axapi/v3/acos-events/rate-limit-local

rate-limit-local attributes

Replace Object

PUT

/axapi/v3/acos-events/rate-limit-local

rate-limit-local attributes

```
PUT /axapi/v3/acos-events/rate-limit-local
Payload:
{
    "rate-limit-local": {
        "limit": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/acos-events/rate-limit-local

rate-limit-local attributes

```
DELETE /axapi/v3/acos-events/rate-limit-local
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

rate-limit-local attributes

limit

Description Configure Rate Limit for Local logs

Type: number

Range: 0-100

Default: 32

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.27 acos-events rate-limit-remote

Configure rate limit for logs sent to remote via classic logging config

rate-limit-remote Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rate-limit-remote
Element URI	/axapi/v3/acos-events/rate-limit-remote
Element Attributes	rate-limit-remote_attributes
Partition Visibility	shared
Schema	`rate-limit-remote schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/rate-limit-remote

rate-limit-remote attributes

```
POST /axapi/v3/acos-events/rate-limit-remote
Payload:
{
    "rate-limit-remote": {
        "limit": 0
    }
}
```

Get Object

GET

/axapi/v3/acos-events/rate-limit-remote

rate-limit-remote attributes

```
GET /axapi/v3/acos-events/rate-limit-remote
Reponse:
{
    "rate-limit-remote": {
        "limit": 0,
        "uuid": "9ae944ee-b6aa-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/acos-events/rate-limit-remote"
    }
}
```

Modify Object

POST

/axapi/v3/acos-events/rate-limit-remote

rate-limit-remote attributes

Replace Object

PUT

/axapi/v3/acos-events/rate-limit-remote

rate-limit-remote attributes

```
PUT /axapi/v3/acos-events/rate-limit-remote
Payload:
{
    "rate-limit-remote": {
        "limit": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/acos-events/rate-limit-remote

rate-limit-remote attributes

```
DELETE /axapi/v3/acos-events/rate-limit-remote
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

rate-limit-remote attributes

limit

Description Configure rate limit for logs sent to remote via classic logging config

Type: number

Range: 0-250

Default: 32

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.28 acos-events statistics

acos events global statistics

statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	statistics
Element URI	/axapi/v3/acos-events/statistics
Element Attributes	statistics_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/acos-events/statistics/stats
Schema	`statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/statistics

statistics attributes

Get Object

GET

/axapi/v3/acos-events/statistics

statistics attributes

Modify Object

POST

/axapi/v3/acos-events/statistics

statistics attributes

Replace Object

PUT

/axapi/v3/acos-events/statistics

statistics attributes

Delete Object

DELETE

/axapi/v3/acos-events/statistics

statistics attributes

statistics attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msg_sent': Messages sent, to Remote; 'msg_sent_logdb': Messages sent, to LogDB; 'msg_dropped_format_not_defined': Messages Dropped, format not defined; 'msg_dropped_malloc_failure': Messages Dropped, malloc failure; 'msg_dropped_no_template': Messages Dropped, no active template; 'msg_dropped_selector': Messages Dropped, selector does not enable msg; 'msg_dropped_too_long': Messages Dropped, invalid length; 'msg_dropped_craft_fail': Messages Dropped, msg crafting failed; 'msg_dropped_local_log_ratelimit': Messages Dropped, local log ratelimited; 'msg_dropped_remote_log_ratelimit': Messages Dropped, remote log ratelimited; 'msg_dropped_send_failed': Messages Dropped, send failed; 'msg_dropped_no_active_member': Messages Dropped, no active member in collector grp; 'msg_dropped_route_fail': Messages Dropped, Route lookup failed; 'msg_dropped_other': Messages Dropped, unexpected error; 'no_template': Message API called, with no active template; 'msg_dropped_lost_during_config_change': Messages Dropped, lost during config change; 'local_enqueue_pass': Messages enqueue to Logd passed; 'msg_sent_to_logd': Messages sent to Logd via IPC; 'msg_retry_after_socket_fail': Messages retried to be sent to Logd via IPC; 'msg_sent_direct_syslog': Messages sent to syslog directly from axlog; 'msg_dropped_send_to_logd_fail': Messages Dropped, send to Logd via IPC failed; 'msg_dropped_trylock_fail': Messages Dropped, Trylock failed in axlog; 'msg_dropped_remote_cplane_log_ratelimit': Messages Dropped, Remote cplane log ratelimited; 'msg_dropped_remote_dplane_log_ratelimit': Messages Dropped, Remote dplane log ratelimited; 'msg_dropped_local_enqueue_failed': Messages Dropped, Enqueue to Logd failed; 'msg_dropped_grp_not_used': Messages Dropped, Collector group not used; 'msg_sent_remote_cplane': Messages Sent, to remote in logd; 'msg_dropped_no_template_logd': Messages Dropped, no active template in Logd; 'msg_dropped_lost_during_config_change_logd': Messages Dropped, lost during config change in Logd; 'msg_dropped_craft_fail_logd': Messages Dropped, msg crafting failed in Logd; 'msg_dropped_send_failed_logd': Messages Dropped, send failed in Logd; 'msg_dropped_no_active_member_logd': Messages Dropped, no active member in collector grp in Logd; 'msg_dropped_other_logd': Messages Dropped, unexpected error in Logd; 'msg_dropped_invalid_part': Messages Dropped, Invalid partition Id; 'acos_evt_test_logs_ticks': Number of ticks when running ACOS Event Test Logs;

'param_msg_sent_to_hc': Parameterized log sent to HC; 'param_msg_sent_fail': Parameterized log send to HC failed; 'param_msg_encode_fail': Parameterized log AVRO encoding failed;

Type: string

Supported Values: all, msg_sent, msg_sent_logdb, msg_dropped_format_not_defined, msg_dropped_malloc_failure, msg_dropped_no_template, msg_dropped_selector, msg_dropped_too_long, msg_dropped_craft_fail, msg_dropped_local_log_ratelimit, msg_dropped_remote_log_ratelimit, msg_dropped_send_failed, msg_dropped_no_active_member, msg_dropped_route_fail, msg_dropped_other, no_template, msg_dropped_lost_during_config_change, local_enqueue_pass, msg_sent_to_logd, msg_retry_after_socket_fail, msg_sent_direct_syslog, msg_dropped_send_to_logd_fail, msg_dropped_trylock_fail, msg_dropped_remote_cplane_log_ratelimit, msg_dropped_remote_dplane_log_ratelimit, msg_dropped_local_enqueue_failed, msg_dropped_grp_not_used, msg_sent_remote_cplane, msg_dropped_no_template_logd, msg_dropped_lost_during_config_change_logd, msg_dropped_craft_fail_logd, msg_dropped_send_failed_logd, msg_dropped_no_active_member_logd, msg_dropped_other_logd, msg_dropped_invalid_part, acos_evt_test_logs_ticks, param_msg_sent_to_hc, param_msg_sent_fail, param_msg_encode_fail, logd_stats_system_logs, logd_stats_system_logs_dropped, logd_stats_audit_logs, logd_stats_audit_logs_dropped

2.5.29 acos-events statistics stats

Statistics for the object statistics

statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	statistics
Element URI	/axapi/v3/acos-events/statistics/stats
Element Attributes	statistics_attributes
Partition Visibility	None
Schema	`statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/statistics/stats

statistics attributes

Get Object

GET

/axapi/v3/acos-events/statistics/stats

statistics attributes

Modify Object

POST

/axapi/v3/acos-events/statistics/stats

statistics attributes

Replace Object

PUT

/axapi/v3/acos-events/statistics/stats

statistics attributes

Delete Object

DELETE

/axapi/v3/acos-events/statistics/stats

statistics attributes

statistics attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

logd_stats_audit_logs

Description Logd audit logs sent to hc

Type: number

Format: counter

logd_stats_audit_logs_dropped

Description Logd audit logs dropped

Type: number

Format: counter

logd_stats_system_logs

Description Logd system logs sent to hc

Type: number

Format: counter

logd_stats_system_logs_dropped

Description Logd system logs dropped

Type: number

Format: counter

msg_dropped_craft_fail

Description Messages Dropped, msg crafting failed

Type: number

Format: counter

msg_dropped_format_not_defined

Description Messages Dropped, format not defined

Type: number

Format: counter

msg_dropped_local_log_ratelimit

Description Messages Dropped, local log ratelimited

Type: number

Format: counter

msg_dropped_malloc_failure

Description Messages Dropped, malloc failure

Type: number

Format: counter

msg_dropped_no_active_member

Description Messages Dropped, no active member in collector grp

Type: number

Format: counter

msg_dropped_no_template

Description Messages Dropped, no active template

Type: number

Format: counter

msg_dropped_other

Description Messages Dropped, unexpected error

Type: number

Format: counter

msg_dropped_route_fail

Description Messages Dropped, Route lookup failed

Type: number

Format: counter

msg_dropped_selector

Description Messages Dropped, selector does not enable msg

Type: number

Format: counter

msg_dropped_send_failed

Description Messages Dropped, send failed

Type: number

Format: counter

msg_dropped_too_long

Description Messages Dropped, invalid length

Type: number

Format: counter

msg_sent

Description Messages sent, to Remote

Type: number

Format: counter

msg_sent_logdb

Description Messages sent, to LogDB

Type: number

Format: counter

param_msg_encode_fail

Description Parameterized log AVRO encoding failed

Type: number

Format: counter

param_msg_sent_fail

Description Parameterized log send to HC failed

Type: number

Format: counter

param_msg_sent_to_hc

Description Parameterized log sent to HC

Type: number

Format: counter

2.5.30 acos-events template

Configure logging template

template Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*template-list*
Collection URI	/axapi/v3/acos-events/template
Element Name	template
Element URI	/axapi/v3/acos-events/template/{name}
Element Attributes	template_attributes
Partition Visibility	shared
Schema	`template schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/template

template attributes

```
POST /axapi/v3/acos-events/template/
Payload:
{
    "template": {
        "name": "a"
    }
}
```

Create List

POST

/axapi/v3/acos-events/template

template attributes

Get Object

GET

/axapi/v3/acos-events/template/{name}

template attributes

Get List

GET

/axapi/v3/acos-events/template

template-list

Modify Object

POST

/axapi/v3/acos-events/template/{name}

template attributes

Replace Object

PUT

/axapi/v3/acos-events/template/{name}

template attributes

Replace List

PUT

/axapi/v3/acos-events/template

template-list

Delete Object

DELETE

/axapi/v3/acos-events/template/{name}

template attributes

template-list

template-list is **JSON List** of *template attributes*

```
template-list : [
        { template attributes },
        { template attributes },
        ...
    ]
```

template attributes

message-selector-list

Type: List

Reference Object: */axapi/v3/acos-events/template/{name}/message-selector/{name}*

name

Description Specify logging template name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

message-selector-list

Specification	Value
Type	*list*
Block object keys	

collector-group-list

Type: List

Reference Object: */axapi/v3/acos-events/template/{name}/message-selector/{name}/collector-group/{name}*

name

Description Specify the message selector name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/acos-events/message-selector*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

message-selector-list_collector-group-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify the log server group for receiving log messages

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/acos-events/collector-group*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.31 acos-events template message-selector

Specify the message selector

message-selector Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*message-selector-list*
Collection URI	/axapi/v3/acos-events/template/{name}/message-selector
Element Name	message-selector
Element URI	/axapi/v3/acos-events/template/{name}/message-selector/{name}
Element Attributes	message-selector_attributes
Partition Visibility	shared
Schema	`message-selector schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/template/{name}/message-selector

message-selector attributes

Create List

POST

/axapi/v3/acos-events/template/{name}/message-selector

message-selector attributes

Get Object

GET

/axapi/v3/acos-events/template/{name}/message-selector/{name}

message-selector attributes

Get List

GET

/axapi/v3/acos-events/template/{name}/message-selector

message-selector-list

Modify Object

POST

/axapi/v3/acos-events/template/{name}/message-selector/{name}

message-selector attributes

Replace Object

PUT

/axapi/v3/acos-events/template/{name}/message-selector/{name}

message-selector attributes

Replace List

PUT

/axapi/v3/acos-events/template/{name}/message-selector

message-selector-list

Delete Object

DELETE

/axapi/v3/acos-events/template/{name}/message-selector/{name}

message-selector attributes

message-selector-list

message-selector-list is **JSON List** of *message-selector attributes*

message-selector-list : [

{ *message-selector attributes* },

{ *message-selector attributes* },

...

]

message-selector attributes

collector-group-list

Type: List

Reference Object: */axapi/v3/acos-events/template/{name}/message-selector/{name}/collector-group/{name}*

name

Description Specify the message selector name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/acos-events/message-selector*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

collector-group-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify the log server group for receiving log messages

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/acos-events/collector-group*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.32 acos-events template message-selector collector-group

Specify the log server group for receiving log messages

collector-group Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*collector-group-list*
Collection URI	/axapi/v3/acos-events/template/{name}/message-selector/{name}/collector-group
Element Name	collector-group
Element URI	/axapi/v3/acos-events/template/{name}/message-selector/{name}/collector-group/{name}
Element Attributes	collector-group_attributes
Partition Visibility	shared
Schema	`collector-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/template/{name}/message-selector/{name}/collector-group

collector-group attributes

Create List

POST

/axapi/v3/acos-events/template/{name}/message-selector/{name}/collector-group

collector-group attributes

Get Object

GET

/axapi/v3/acos-events/template/{name}/message-selector/{name}/collector-group/{name}

collector-group attributes

Get List

GET

/axapi/v3/acos-events/template/{name}/message-selector/{name}/collector-group

collector-group-list

Modify Object

POST

/axapi/v3/acos-events/template/{name}/message-selector/{name}/collector-group/{name}

collector-group attributes

Replace Object

PUT

/axapi/v3/acos-events/template/{name}/message-selector/{name}/collector-group/{name}

collector-group attributes

Replace List

PUT

/axapi/v3/acos-events/template/{name}/message-selector/{name}/collector-group

collector-group-list

Delete Object

DELETE

/axapi/v3/acos-events/template/{name}/message-selector/{name}/collector-group/{name}

collector-group attributes

collector-group-list

collector-group-list is **JSON List** of *collector-group attributes*

collector-group-list : [

{ *collector-group attributes* },

{ *collector-group attributes* },

...

]

collector-group attributes

name

Description Specify the log server group for receiving log messages

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/acos-events/collector-group*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.5.33 acos-events use-partition

Configure Partition for Logging

use-partition Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	use-partition
Element URI	/axapi/v3/acos-events/use-partition
Element Attributes	use-partition_attributes
Partition Visibility	shared
Schema	`use-partition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/acos-events/use-partition

use-partition attributes

```
POST /axapi/v3/acos-events/use-partition
Payload:
{
    "use-partition": {
        "partition-name": "a"
    }
}
```

Get Object

GET

/axapi/v3/acos-events/use-partition

use-partition attributes

Modify Object

POST

/axapi/v3/acos-events/use-partition

use-partition attributes

Replace Object

PUT

/axapi/v3/acos-events/use-partition

use-partition attributes

Delete Object

DELETE

/axapi/v3/acos-events/use-partition

use-partition attributes

use-partition attributes

partition-name

Description Select partition name for logging

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/partition*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.6 admin

Objects:

2.6.1 admin

System admin user configuration

admin Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*user*
Collection Name	*admin-list*
Collection URI	/axapi/v3/admin
Element Name	admin
Element URI	/axapi/v3/admin/{user}
Element Attributes	admin_attributes
Partition Visibility	shared
Schema	`admin schema`

Operations Allowed:

Create Object

POST

/axapi/v3/admin

admin attributes

```
POST /axapi/v3/admin/
Payload:
{
    "admin": {
        "user": "a",
        "password-key": 1,
        "passwd-string": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/admin

admin attributes

Get Object

GET

/axapi/v3/admin/{user}

admin attributes

```
GET /axapi/v3/admin/a
Reponse:
{
    "admin": {
        "user": "a",
        "password-key": 0,
        "action": "enable",
        "trusted-host": 0,
        "uuid": "9ec1144c-b6b0-11ef-8f5a-ae71681635d0",
        "access": {
            "access-type": "axapi,cli,web",
            "uuid": "9ec63f6c-b6b0-11ef-8f5a-ae71681635d0",
            "a10-url": "/axapi/v3/admin/a/access"
        },
        "a10-url": "/axapi/v3/admin/a"
    }
}
```

Get List

GET

/axapi/v3/admin

admin-list

Modify Object

POST

/axapi/v3/admin/{user}

admin attributes

Replace Object

PUT

/axapi/v3/admin/{user}

admin attributes

```
PUT /axapi/v3/admin/a
Payload:
{
    "admin": {
        "user": "a"
    }
}
```

Replace List

PUT

/axapi/v3/admin

admin-list

Delete Object

DELETE

/axapi/v3/admin/{user}

admin attributes

```
DELETE /axapi/v3/admin/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

admin-list

admin-list is **JSON List** of *admin attributes*

admin-list : [

{ *admin attributes* },

{ *admin attributes* },

...

]

admin attributes

access

Description: access is a **JSON Block**. Please see below for *access*

Type: Object

Reference Object: */axapi/v3/admin/{user}/access*

access-list

Description Specify an ACL to classify a trusted host

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: access-list and trusted-host-cidr are mutually exclusive

action

Description 'enable': Enable user; 'disable': Disable user;

Type: string

Supported Values: enable, disable

Default: enable

aws-accesskey

Description: aws-accesskey is a **JSON Block**. Please see below for *aws-accesskey*

Type: Object

Reference Object: */axapi/v3/admin/{user}/aws-accesskey*

azure-cred

Description: azure-cred is a **JSON Block**. Please see below for *azure-cred*

Type: Object

Reference Object: */axapi/v3/admin/{user}/azure-cred*

cloud-cred

Description: cloud-cred is a **JSON Block**. Please see below for *cloud-cred*

Type: Object

Reference Object: */axapi/v3/admin/{user}/cloud-cred*

encrypted

Description Specify an ENCRYPTED password string (System admin user password)

gcp-cred

Description: gcp-cred is a **JSON Block**. Please see below for *gcp-cred*

Type: Object

Reference Object: */axapi/v3/admin/{user}/gcp-cred*

passwd-string

Description Config admin user password

Type: string

Format: password

password

Description: password is a **JSON Block**. Please see below for *password*

Type: Object

Reference Object: */axapi/v3/admin/{user}/password*

password-key

Description Config admin user password

Type: boolean

Supported Values: true, false, 1, 0

privilege-global

Description 'read': Set read privilege; 'write': Set write privilege; 'hm': Set external health monitor script content operations privilege;

Type: string

Supported Values: read, write, hm

privilege-list

Type: List

privilege-shell-root

Description Set shell root privilege

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ssh-pubkey

Description: ssh-pubkey is a **JSON Block**. Please see below for *ssh-pubkey*

Type: Object

Reference Object: */axapi/v3/admin/{user}/ssh-pubkey*

trusted-host

Description Set trusted network administrator can login in

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

trusted-host-acl-id

Description ACL ID

Type: number

Range: 1-99

trusted-host-cidr

Description Trusted IP Address with network mask

Type: string

Format: ipv4-cidr

Mutual Exclusion: trusted-host-cidr and access-list are mutually exclusive

user

Description System admin user name

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

azure-cred

Specification	Value
Type	*object*

delete

Description Delete an authorized Azure credentials

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

file-url

Description File URL

Type: string

Format: url

import

Description Import an azure-credentials

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

show

Description Show authorized azure credentials

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

use-mgmt-port

Description Use management port as source port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cloud-cred

Specification	Value
Type	*object*

delete

Description Delete an authorized cloud credentials and cloud configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

file-url

Description File URL

Type: string

Format: url

import

Description Import an Cloud-Cred and Cloud-Config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

show

Description Show authorized cloud credentials and cloud configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

type

Description 'aws-cred': aws-cred; 'aws-config': aws-config; 'azure-cred': azure-cred; 'vmware-cred': vmware-cred;

Type: string

Supported Values: aws-cred, aws-config, azure-cred, vmware-cred

use-mgmt-port

Description Use management port as source port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

privilege-list

Specification	Value
Type	*list*
Block object keys	

partition-name

Description Partition Name

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

privilege-partition

Description 'partition-enable-disable': Set per-partition enable/disable privilege; 'partition-read': Set per-partition read privilege; 'partition-write': Set per-partition write privilege;

Type: string

Supported Values: partition-enable-disable, partition-read, partition-write

aws-accesskey

Specification	Value
Type	*object*

delete

Description Delete an authorized aws accesskey

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

file-url

Description File URL

Type: string

Format: url

import

Description Import an aws-accesskey

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

show

Description Show authorized aws accesskey

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

use-mgmt-port

Description Use management port as source port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

access

Specification	Value
Type	*object*

access-type

Description

Type: string

Format: enum-list

Default: axapi,cli,web

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssh-pubkey

Specification	Value
Type	*object*

delete

Description Delete an authorized public key (SSH key index)

Type: number

Range: 1-1000000

file-url

Description File URL

Type: string

Format: url

import

Description Import an authorized public key

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

list

Description List all authorized public keys

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

use-mgmt-port

Description Use management port as source port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

gcp-cred

Specification	Value
Type	*object*

delete

Description Delete an authorized GCP credentials

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

file-url

Description File URL

Type: string

Format: url

import

Description Import an GCP-credentials

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

show

Description Show authorized GCP credentials

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

use-mgmt-port

Description Use management port as source port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

password

Specification	Value
Type	*object*

encrypted-in-module

Description Specify an ENCRYPTED password string (System admin user password)

password-in-module

Description Config admin user password

Type: string

Format: password

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.6.2 admin access

Config access type

access Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	access
Element URI	/axapi/v3/admin/{user}/access
Element Attributes	access_attributes
Partition Visibility	shared
Schema	`access schema`

Operations Allowed:

Create Object

POST

/axapi/v3/admin/{user}/access

access attributes

```
POST /axapi/v3/admin/a/access
Payload:
{
    "access": {
        "access-type": "axapi"
    }
}
```

Get Object

GET

/axapi/v3/admin/{user}/access

access attributes

```
GET /axapi/v3/admin/a/access
Reponse:
{
    "access": {
        "access-type": "axapi",
        "uuid": "b2674a16-b6b0-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/admin/a/access"
    }
}
```

Modify Object

POST

/axapi/v3/admin/{user}/access

access attributes

Replace Object

PUT

/axapi/v3/admin/{user}/access

access attributes

Delete Object

DELETE

/axapi/v3/admin/{user}/access

access attributes

```
DELETE /axapi/v3/admin/a/access
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

access attributes

access-type

Description

Type: string

Format: enum-list

Default: axapi,cli,web

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.6.3 admin password

Config admin user password

password Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	password
Element URI	/axapi/v3/admin/{user}/password
Element Attributes	password_attributes
Partition Visibility	shared
Schema	`password schema`

Operations Allowed:

Create Object

POST

/axapi/v3/admin/{user}/password

password attributes

Get Object

GET

/axapi/v3/admin/{user}/password

password attributes

Modify Object

POST

/axapi/v3/admin/{user}/password

password attributes

Replace Object

PUT

/axapi/v3/admin/{user}/password

password attributes

password attributes

encrypted-in-module

Description Specify an ENCRYPTED password string (System admin user password)

password-in-module

Description Config admin user password

Type: string

Format: password

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.7 admin-detail

Objects:

2.7.1 admin-detail

get admin user priviledge

admin-detail Specification

Parameter	Value
Type	*operational*
Element Name	admin-detail
Element URI	/axapi/v3/admin-detail
Element Attributes	admin-detail_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/admin-detail/oper
Schema	`admin-detail schema`

Operations Allowed:

EXECUTE Object

POST

/axapi/v3/admin-detail

admin-detail attributes

admin-detail attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.7.2 admin-detail oper

Operational Status for the object admin-detail

admin-detail Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	admin-detail
Element URI	/axapi/v3/admin-detail/oper
Element Attributes	admin-detail_attributes
Partition Visibility	None
Schema	`admin-detail schema`

Operations Allowed:

Create Object

POST

/axapi/v3/admin-detail/oper

admin-detail attributes

Get Object

GET

/axapi/v3/admin-detail/oper

admin-detail attributes

Modify Object

POST

/axapi/v3/admin-detail/oper

admin-detail attributes

Replace Object

PUT

/axapi/v3/admin-detail/oper

admin-detail attributes

Delete Object

DELETE

/axapi/v3/admin-detail/oper

admin-detail attributes

admin-detail attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

user-list

Type: List

oper_user-list

Specification	Value
Type	*list*
Block object keys	

access_type

Description

Type: string

gui_role

Description

Type: string

lock_status

Description

Type: string

lock_time

Description

Type: string

partition

Description

Type: string

password_type

Description

Type: string

priviledge

Description

Type: string

status

Description

Type: string

trusted_host

Description

Type: string

unlock_time

Description

Type: string

user_name

Description

Type: string

2.8 admin-lockout

Objects:

2.8.1 admin-lockout

Admin user lockout configuration

admin-lockout Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	admin-lockout
Element URI	/axapi/v3/admin-lockout
Element Attributes	admin-lockout_attributes
Partition Visibility	shared
Schema	`admin-lockout schema`

Operations Allowed:

Create Object

POST

/axapi/v3/admin-lockout

admin-lockout attributes

```
POST /axapi/v3/admin-lockout
Payload:
{
    "admin-lockout": {
        "duration": 0
    }
}
```

Get Object

GET

/axapi/v3/admin-lockout

admin-lockout attributes

```
GET /axapi/v3/admin-lockout
Reponse:
{
    "admin-lockout": {
        "duration": 0,
        "enable": 0,
        "reset-time": 10,
        "threshold": 5,
        "uuid": "898a63ee-b6a6-11ef-b71b-ae71681635d0",
        "a10-url": "/axapi/v3/admin-lockout"
    }
}
```

Modify Object

POST

/axapi/v3/admin-lockout

admin-lockout attributes

Replace Object

PUT

/axapi/v3/admin-lockout

admin-lockout attributes

```
PUT /axapi/v3/admin-lockout
Payload:
{
    "admin-lockout": {
        "duration": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/admin-lockout

admin-lockout attributes

```
DELETE /axapi/v3/admin-lockout
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

admin-lockout attributes

duration

Description Admin user lockout duration, in minutes, by default 10 (Admin user lockout duration in minutes, 0 means forever)

Type: number

Range: 0-1440

Default: 10

enable

Description Enable admin user lockout

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

reset-time

Description After how long to reset the lockout counter, in minutes, by default 10 (Time in minutes after which to reset the lockout counter)

Type: number

Range: 1-1440

Default: 10

threshold

Description Admin user lockout threshold, by default 5

Type: number

Range: 1-10

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.9 admin-session

Objects:

2.9.1 admin-session

Admin session management

admin-session Specification

Parameter	Value
Type	*operational*
Element Name	admin-session
Element URI	/axapi/v3/admin-session
Element Attributes	admin-session_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/admin-session/oper
Schema	`admin-session schema`

Operations Allowed:

EXECUTE Object

POST

/axapi/v3/admin-session

admin-session attributes

admin-session attributes

all

Description Clear all admin sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear

Description clear admin session

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sid

Description Session ID

Type: number

Range: 0-2147483647

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.9.2 admin-session oper

Operational Status for the object admin-session

admin-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	admin-session
Element URI	/axapi/v3/admin-session/oper
Element Attributes	admin-session_attributes
Partition Visibility	None
Schema	`admin-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/admin-session/oper

admin-session attributes

Get Object

GET

/axapi/v3/admin-session/oper

admin-session attributes

Modify Object

POST

/axapi/v3/admin-session/oper

admin-session attributes

Replace Object

PUT

/axapi/v3/admin-session/oper

admin-session attributes

Delete Object

DELETE

/axapi/v3/admin-session/oper

admin-session attributes

admin-session attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

session-list

Type: List

oper_session-list

Specification	Value
Type	*list*
Block object keys	

Authen

Description

Type: string

Partition

Description

Type: string

Role

Description

Type: string

cfg_mode

Description

Type: string

name

Description

Type: string

priv

Description

Type: string

sid

Description

Type: string

src_ip

Description

Type: string

start_time

Description

Type: string

type

Description

Type: string

2.10 allow-slb-cfg

Objects:

2.10.1 allow-slb-cfg

allow-slb-cfg Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	allow-slb-cfg
Element URI	/axapi/v3/allow-slb-cfg
Element Attributes	allow-slb-cfg_attributes
Partition Visibility	shared
Schema	`allow-slb-cfg schema`

Operations Allowed:

Create Object

POST

/axapi/v3/allow-slb-cfg

allow-slb-cfg attributes

```
POST /axapi/v3/allow-slb-cfg
Payload:
{
    "allow-slb-cfg": {
        "enable": 1
    }
}
```

Get Object

GET

/axapi/v3/allow-slb-cfg

allow-slb-cfg attributes

```
GET /axapi/v3/allow-slb-cfg
Reponse:
{
    "allow-slb-cfg": {
        "enable": 1,
        "uuid": "898e6de0-b6a6-11ef-b71b-ae71681635d0",
        "a10-url": "/axapi/v3/allow-slb-cfg"
    }
}
```

Modify Object

POST

/axapi/v3/allow-slb-cfg

allow-slb-cfg attributes

Replace Object

PUT

/axapi/v3/allow-slb-cfg

allow-slb-cfg attributes

```
PUT /axapi/v3/allow-slb-cfg
Payload:
{
    "allow-slb-cfg": {
        "enable": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/allow-slb-cfg

allow-slb-cfg attributes

```
DELETE /axapi/v3/allow-slb-cfg
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

allow-slb-cfg attributes

enable

Description Enable configuration of SLB objects in CGN partition. Please follow documentation on allowed configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.11 application-type

Objects:

2.11.1 application-type

Configure application to be used in partition (ADC/CGNV6)

application-type Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	application-type
Element URI	/axapi/v3/application-type
Element Attributes	application-type_attributes
Partition Visibility	shared
Schema	`application-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/application-type

application-type attributes

```
POST /axapi/v3/application-type
Payload:
{
    "application-type": {
        "type": "adc"
    }
}
```

Get Object

GET

/axapi/v3/application-type

application-type attributes

```
GET /axapi/v3/application-type
Reponse:
{
```

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```
    "application-type": {
        "type": "adc",
        "uuid": "752c2c8c-b6b2-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/application-type"
    }
}
```

Modify Object

POST

/axapi/v3/application-type

application-type attributes

Replace Object

PUT

/axapi/v3/application-type

application-type attributes

```
PUT /axapi/v3/application-type
Payload:
{
    "application-type": {
        "type": "adc"
    }
}
```

Delete Object

DELETE

/axapi/v3/application-type

application-type attributes

```
DELETE /axapi/v3/application-type
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

application-type attributes

type

Description 'adc': Application type ADC; 'cgnv6': Application type CGNv6;

Type: string

Supported Values: adc, cgnv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.12 audit

Objects:

2.12.1 audit

Configure audit

audit Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	audit
Element URI	/axapi/v3/audit
Element Attributes	audit_attributes
Partition Visibility	shared
Schema	`audit schema`

Operations Allowed:

Create Object

POST

/axapi/v3/audit

audit attributes

```
POST /axapi/v3/audit
Payload:
{
    "audit": {
        "enable": 1,
        "privilege": 1
```

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```
    }
}
```

Get Object

GET

/axapi/v3/audit

audit attributes

```
GET /axapi/v3/audit
Reponse:
{
    "audit": {
        "enable": 1,
        "privilege": 1,
        "uuid": "56031ed8-086a-11f0-b2f1-51c757813e60",
        "a10-url": "/axapi/v3/audit"
    }
}
```

Modify Object

POST

/axapi/v3/audit

audit attributes

Replace Object

PUT

/axapi/v3/audit

audit attributes

```
PUT /axapi/v3/audit
Payload:
{
    "audit": {
        "enable": 1,
        "privilege": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/audit

audit attributes

audit attributes

enable

Description Enable audit service

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

privilege

Description Enable privilege command for audit service

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

size

Description Config audit buffer size, default is 20,000 (Audit buffer size(in items), default is 20,000)

Type: number

Range: 1000-30000

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.13 authentication

Objects:

2.13.1 authentication

Configure authentication feature

authentication Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	authentication
Element URI	/axapi/v3/authentication
Element Attributes	authentication_attributes
Partition Visibility	shared
Schema	`authentication schema`

Operations Allowed:

Create Object

POST

/axapi/v3/authentication

authentication attributes

```
POST /axapi/v3/authentication
Payload:
{
    "authentication": {
        "console": {
            "type-cfg": {
                "console-type": "ldap",
                "type": 1
            }
        },
        "type-cfg": {
            "type": "ldap"
        }
    }
}
```

Get Object

GET

/axapi/v3/authentication

authentication attributes

```
GET /axapi/v3/authentication
Reponse:
{
    "authentication": {
        "type-cfg": {
            "type": "ldap"
        },
        "enable-cfg": {
            "enable-auth-type": "local"
        },
        "login-cfg": {
            "privilege-mode": 0
        },
        "mode-cfg": {
            "mode": "single"
        },
        "multiple-auth-reject": 0,
        "uuid": "56037ed2-086a-11f0-b2f1-51c757813e60",
        "console": {
            "type-cfg": {
                "type": 1,
```

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```
                "console-type": "ldap"
            },
            "uuid": "8909219c-087e-11f0-847f-51c757813e60",
            "a10-url": "/axapi/v3/authentication/console"
        },
        "a10-url": "/axapi/v3/authentication"
    }
}
```

Modify Object

POST

/axapi/v3/authentication

authentication attributes

Replace Object

PUT

/axapi/v3/authentication

authentication attributes

Delete Object

DELETE

/axapi/v3/authentication

authentication attributes

```
DELETE /axapi/v3/authentication
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

authentication attributes

console

Description: console is a **JSON Block**. Please see below for *console*

Type: Object

Reference Object: */axapi/v3/authentication/console*

enable-cfg

Description: enable-cfg is a **JSON Block**. Please see below for *enable-cfg*

Type: Object

login-cfg

Description: login-cfg is a **JSON Block**. Please see below for *login-cfg*

Type: Object

mode-cfg

Description: mode-cfg is a **JSON Block**. Please see below for *mode-cfg*

Type: Object

multiple-auth-reject

Description Multiple same user login reject

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

type-cfg

Description: type-cfg is a **JSON Block**. Please see below for *type-cfg*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

console

Specification	Value
Type	*object*

type-cfg

Description: type-cfg is a **JSON Block**. Please see below for *console_type-cfg*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

console_type-cfg

Specification	Value
Type	*object*

console-type

Description

Type: string

Format: enum-list

type

Description The login authentication type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

mode-cfg

Specification	Value
Type	*object*

mode

Description 'multiple': Multiple authentication mode. If an authentication method rejected, try next one; 'single': Single authentication mode. If an authentication method rejected, don't try next one;

Type: string

Supported Values: multiple, single

Default: single

type-cfg

Specification	Value
Type	*object*

type

Description The login authentication type

Type: string

Format: enum-list

Default: local

login-cfg

Specification	Value
Type	*object*

local

Description Configure local user to enter privilege-mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

privilege-mode

Description Configure to enter privilege-mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-cfg

Specification	Value
Type	*object*

enable-auth-type

Description The enable-password authentication type

Type: string

Format: enum-list

Default: local

2.13.2 authentication console

Configure console authentication type

console Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	console
Element URI	/axapi/v3/authentication/console
Element Attributes	console_attributes
Partition Visibility	shared
Schema	`console schema`

Operations Allowed:

Create Object

POST

/axapi/v3/authentication/console

console attributes

```
POST /axapi/v3/authentication/console
Payload:
{
    "console": {
        "type-cfg": {
            "console-type": "ldap",
            "type": 1
        }
    }
}
```

Get Object

GET

/axapi/v3/authentication/console

console attributes

```
GET /axapi/v3/authentication/console
Reponse:
{
    "console": {
        "type-cfg": {
            "type": 1,
            "console-type": "ldap"
        },
        "uuid": "bd6869c0-087e-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/authentication/console"
    }
}
```

Modify Object

POST

/axapi/v3/authentication/console

console attributes

Replace Object

PUT

/axapi/v3/authentication/console

console attributes

Delete Object

DELETE

/axapi/v3/authentication/console

console attributes

```
DELETE /axapi/v3/authentication/console
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

console attributes

type-cfg

Description: type-cfg is a **JSON Block**. Please see below for *type-cfg*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

type-cfg

Specification	Value
Type	*object*

console-type

Description

Type: string

Format: enum-list

type

Description The login authentication type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.14 authorization

Objects:

2.14.1 authorization

Configuration for command authorization

authorization Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	authorization
Element URI	/axapi/v3/authorization
Element Attributes	authorization_attributes
Partition Visibility	shared
Schema	`authorization schema`

Operations Allowed:

Create Object

POST

/axapi/v3/authorization

authorization attributes

```
POST /axapi/v3/authorization
Payload:
{
    "authorization": {
        "commands": 0,
        "method": {
            "tacplus": 1,
            "none": 1
        }
    }
}
```

Get Object

GET

/axapi/v3/authorization

authorization attributes

```
GET /axapi/v3/authorization
Reponse:
{
    "authorization": {
```

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```
        "commands": 0,
        "method": {
            "tacplus": 1,
            "none": 1
        },
        "uuid": "d80bcc54-087e-11f0-847f-51c757813e60",
        "a10-url": "/axapi/v3/authorization"
    }
}
```

Modify Object

POST

/axapi/v3/authorization

authorization attributes

Replace Object

PUT

/axapi/v3/authorization

authorization attributes

```
PUT /axapi/v3/authorization
Payload:
{
    "authorization": {
        "debug": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/authorization

authorization attributes

```
DELETE /axapi/v3/authorization
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

authorization attributes

commands

Description Commands level for authorization

Type: number

Range: 0-15

debug

Description Specify the debug level for authorization (Debug level for command authorization. bitwise OR of the following: 1(common), 2(packet),4(packet detail), 8(md5))

Type: number

Range: 1-15

method

Description: method is a **JSON Block**. Please see below for *method*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

method

Specification	Value
Type	*object*

none

Description No command authorization

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tacplus

Description Using TACACS+ protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.15 automatic-update

Objects:

2.15.1 automatic-update

Automatic update configuration

automatic-update Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	automatic-update
Element URI	/axapi/v3/automatic-update
Element Attributes	automatic-update_attributes
Partition Visibility	shared
Schema	`automatic-update schema`

Operations Allowed:

Create Object

POST

/axapi/v3/automatic-update

automatic-update attributes

```
POST /axapi/v3/automatic-update
Payload:
{
    "automatic-update": {
        "use-mgmt-port": 1
    }
}
```

Get Object

GET

/axapi/v3/automatic-update

automatic-update attributes

```
GET /axapi/v3/automatic-update
Reponse:
{
    "automatic-update": {
        "use-mgmt-port": 1,
        "uuid": "8995bd66-b6a6-11ef-b71b-ae71681635d0",
        "a10-url": "/axapi/v3/automatic-update"
```

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```
    }
}
```

Modify Object

POST

/axapi/v3/automatic-update

automatic-update attributes

Replace Object

PUT

/axapi/v3/automatic-update

automatic-update attributes

```
PUT /axapi/v3/automatic-update
Payload:
{
    "automatic-update": {
        "use-mgmt-port": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/automatic-update

automatic-update attributes

```
DELETE /axapi/v3/automatic-update
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

automatic-update attributes

check-now

Description: check-now is a **JSON Block**. Please see below for *check-now*

Type: Object

Reference Object: */axapi/v3/automatic-update/check-now*

checknow

Description: checknow is a **JSON Block**. Please see below for *checknow*

Type: Object

Reference Object: */axapi/v3/automatic-update/checknow*

config-list

Type: List

Reference Object: */axapi/v3/automatic-update/config/{feature-name}*

glm-source-url

Description Change GLM source url

Type: string

Format: string-rlx

Maximum Length: 1024 characters

Maximum Length: 1 characters

info

Description: info is a **JSON Block**. Please see below for *info*

Type: Object

Reference Object: */axapi/v3/automatic-update/info*

proxy-server

Description: proxy-server is a **JSON Block**. Please see below for *proxy-server*

Type: Object

Reference Object: */axapi/v3/automatic-update/proxy-server*

reset

Description: reset is a **JSON Block**. Please see below for *reset*

Type: Object

Reference Object: */axapi/v3/automatic-update/reset*

revert

Description: revert is a **JSON Block**. Please see below for *revert*

Type: Object

Reference Object: */axapi/v3/automatic-update/revert*

use-mgmt-port

Description Use management port to connect

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

info

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

reset

Specification	Value
Type	*object*

feature-name

Description 'app-fw': Application Firewall; 'ca-bundle': CA Certificate Bundle;

Type: string

Supported Values: app-fw, ca-bundle

checknow

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

revert

Specification	Value
Type	*object*

feature-name

Description 'app-fw': Application Firewall; 'a10-threat-intel': A10 Threat intel class list; 'central-cert-pin-list': Central updated cert pinning list;

Type: string

Supported Values: app-fw, a10-threat-intel, central-cert-pin-list

proxy-server

Specification	Value
Type	*object*

auth-type

Description 'ntlm': NTLM authentication(default); 'basic': Basic authentication;

Type: string

Supported Values: ntlm, basic

Default: ntlm

domain

Description Realm for NTLM authentication

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

https-port

Description Proxy server HTTPs port

Type: number

Range: 1-65535

password

Description Password for proxy authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

proxy-host

Description Proxy server hostname or IP address

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

secret-string

Description password value

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

username

Description Username for proxy authentication

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

check-now

Specification	Value
Type	*object*

feature-name

Description 'app-fw': Application Firewall; 'ca-bundle': CA Certificate Bundle; 'a10-threat-intel': A10 Threat intel class list; 'central-cert-pin-list': Central updated cert pinning list;

Type: string

Supported Values: app-fw, ca-bundle, a10-threat-intel, central-cert-pin-list

from-staging-server

Description Get files from GLM Staging storage

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prod-ver

Description update to this specific version, if this option is not configured, update to the latest version

Type: string

Maximum Length: 70 characters

Maximum Length: 1 characters

stage-ver

Description update this specific version

Type: string

Maximum Length: 70 characters

Maximum Length: 1 characters

config-list

Specification	Value
Type	*list*
Block object keys	

daily

Description Every day

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: daily and weekly are mutually exclusive

day-time

Description Time of day to update (hh:mm) in 24 hour local time

Type: string

Format: time-hhmm

debug

Description Enable libcurl debug option

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-ssl-verify

Description Disable peer server certificate verification

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

feature-name

Description 'app-fw': Application Firewall Configuration; 'ca-bundle': CA Certificate Bundle; 'a10-threat-intel': A10 Threat intel class list; 'central-cert-pin-list': Central updated cert pinning list;

Type: string

Supported Values: app-fw, ca-bundle, a10-threat-intel, central-cert-pin-list

schedule

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

week-day

Description 'Monday': Monday; 'Tuesday': Tuesday; 'Wednesday': Wednesday; 'Thursday': Thursday; 'Friday': Friday; 'Saturday': Saturday; 'Sunday': Sunday;

Type: string

Supported Values: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday

week-time

Description Time of day to update (hh:mm) in 24 hour local time

Type: string

Format: time-hhmm

weekly

Description Every week

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: weekly and daily are mutually exclusive

2.15.2 automatic-update checknow oper

Operational Status for the object checknow

checknow Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	checknow
Element URI	/axapi/v3/automatic-update/checknow/oper
Element Attributes	checknow_attributes
Partition Visibility	None
Schema	`checknow schema`

Operations Allowed:

Create Object

POST

/axapi/v3/automatic-update/checknow/oper

checknow attributes

Get Object

GET

/axapi/v3/automatic-update/checknow/oper

checknow attributes

Modify Object

POST

/axapi/v3/automatic-update/checknow/oper

checknow attributes

Replace Object

PUT

/axapi/v3/automatic-update/checknow/oper

checknow attributes

Delete Object

DELETE

/axapi/v3/automatic-update/checknow/oper

checknow attributes

checknow attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

feature-name

Description

Type: string

result

Description

Type: string

2.15.3 automatic-update checknow stats

Statistics for the object checknow

checknow Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	checknow
Element URI	/axapi/v3/automatic-update/checknow/stats
Element Attributes	checknow_attributes
Partition Visibility	None
Schema	`checknow schema`

Operations Allowed:

Create Object

POST

/axapi/v3/automatic-update/checknow/stats

checknow attributes

Get Object

GET

/axapi/v3/automatic-update/checknow/stats

checknow attributes

Modify Object

POST

/axapi/v3/automatic-update/checknow/stats

checknow attributes

Delete Object

DELETE

/axapi/v3/automatic-update/checknow/stats

checknow attributes

checknow attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dummy

Description Entry for a10countergen

Type: number

Format: counter

2.15.4 automatic-update config

Configure software update schedule

config Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*feature-name*
Collection Name	*config-list*
Collection URI	/axapi/v3/automatic-update/config
Element Name	config
Element URI	/axapi/v3/automatic-update/config/{feature-name}
Element Attributes	config_attributes
Partition Visibility	shared
Schema	`config schema`

Operations Allowed:

Create Object

POST

/axapi/v3/automatic-update/config

config attributes

```
POST /axapi/v3/automatic-update/config/
Payload:
{
    "config": {
        "feature-name": "app-fw",
        "schedule": 1,
        "week-time": "05:25",
        "week-day": "Monday",
        "weekly": 1
    }
}
```

Create List

POST

/axapi/v3/automatic-update/config

config attributes

Get Object

GET

/axapi/v3/automatic-update/config/{feature-name}

config attributes

Get List

GET

/axapi/v3/automatic-update/config

config-list

Modify Object

POST

/axapi/v3/automatic-update/config/{feature-name}

config attributes

Replace Object

PUT

/axapi/v3/automatic-update/config/{feature-name}

config attributes

Replace List

PUT

/axapi/v3/automatic-update/config

config-list

Delete Object

DELETE

/axapi/v3/automatic-update/config/{feature-name}

config attributes

config-list

config-list is **JSON List** of *config attributes*

config-list : [

{ *config attributes* },

{ *config attributes* },

...

]

config attributes

daily

Description Every day

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: daily and weekly are mutually exclusive

day-time

Description Time of day to update (hh:mm) in 24 hour local time

Type: string

Format: time-hhmm

debug

Description Enable libcurl debug option

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-ssl-verify

Description Disable peer server certificate verification

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

feature-name

Description 'app-fw': Application Firewall Configuration; 'ca-bundle': CA Certificate Bundle; 'a10-threat-intel': A10 Threat intel class list; 'central-cert-pin-list': Central updated cert pinning list;

Type: string

Supported Values: app-fw, ca-bundle, a10-threat-intel, central-cert-pin-list

schedule

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

week-day

Description 'Monday': Monday; 'Tuesday': Tuesday; 'Wednesday': Wednesday; 'Thursday': Thursday; 'Friday': Friday; 'Saturday': Saturday; 'Sunday': Sunday;

Type: string

Supported Values: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday

week-time

Description Time of day to update (hh:mm) in 24 hour local time

Type: string

Format: time-hhmm

weekly

Description Every week

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: weekly and daily are mutually exclusive

2.15.5 automatic-update info oper

Operational Status for the object info

info Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	info
Element URI	/axapi/v3/automatic-update/info/oper
Element Attributes	info_attributes
Partition Visibility	None
Schema	`info schema`

Operations Allowed:

Create Object

POST

/axapi/v3/automatic-update/info/oper

info attributes

Get Object

GET

/axapi/v3/automatic-update/info/oper

info attributes

Modify Object

POST

/axapi/v3/automatic-update/info/oper

info attributes

Replace Object

PUT

/axapi/v3/automatic-update/info/oper

info attributes

Delete Object

DELETE

/axapi/v3/automatic-update/info/oper

info attributes

info attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

feature-list

Type: List

oper_feature-list

Specification	Value
Type	*list*
Block object keys	

feature-name

Description

Type: string

last-update

Description

Type: string

next-check

Description

Type: string

schedule

Description

Type: string

time

Description

Type: string

version

Description

Type: string

2.15.6 automatic-update info stats

Statistics for the object info

info Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	info
Element URI	/axapi/v3/automatic-update/info/stats
Element Attributes	info_attributes
Partition Visibility	None
Schema	`info schema`

Operations Allowed:

Create Object

POST

/axapi/v3/automatic-update/info/stats

info attributes

Get Object

GET

/axapi/v3/automatic-update/info/stats

info attributes

Modify Object

POST

/axapi/v3/automatic-update/info/stats

info attributes

Delete Object

DELETE

/axapi/v3/automatic-update/info/stats

info attributes

info attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dummy

Description Entry for a10countergen

Type: number

Format: counter

2.15.7 automatic-update proxy-server

Connect through proxy server

proxy-server Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	proxy-server
Element URI	/axapi/v3/automatic-update/proxy-server
Element Attributes	proxy-server_attributes
Partition Visibility	shared
Schema	`proxy-server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/automatic-update/proxy-server

proxy-server attributes

```
POST /axapi/v3/automatic-update/proxy-server
Payload:
{
    "proxy-server": {
        "proxy-host": "a"
    }
}
```

Get Object

GET

/axapi/v3/automatic-update/proxy-server

proxy-server attributes

```
GET /axapi/v3/automatic-update/proxy-server
Reponse:
{
    "proxy-server": {
        "proxy-host": "a",
        "auth-type": "ntlm",
        "password": 0,
        "uuid": "3a7ca4da-b6b3-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/automatic-update/proxy-server"
    }
}
```

Modify Object

POST

/axapi/v3/automatic-update/proxy-server

proxy-server attributes

Replace Object

PUT

/axapi/v3/automatic-update/proxy-server

proxy-server attributes

```
PUT /axapi/v3/automatic-update/proxy-server
Payload:
{
    "proxy-server": {
        "proxy-host": "abcd"
    }
}
```

Delete Object

DELETE

/axapi/v3/automatic-update/proxy-server

proxy-server attributes

```
DELETE /axapi/v3/automatic-update/proxy-server
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

proxy-server attributes

auth-type

Description 'ntlm': NTLM authentication(default); 'basic': Basic authentication;

Type: string

Supported Values: ntlm, basic

Default: ntlm

domain

Description Realm for NTLM authentication

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

https-port

Description Proxy server HTTPs port

Type: number

Range: 1-65535

password

Description Password for proxy authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

proxy-host

Description Proxy server hostname or IP address

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

secret-string

Description password value

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

username

Description Username for proxy authentication

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.16 axdebug

Objects:

2.16.1 axdebug

Packet Trace Options

axdebug Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	axdebug
Element URI	/axapi/v3/axdebug
Element Attributes	axdebug_attributes
Partition Visibility	shared
Schema	`axdebug schema`

Operations Allowed:

Create Object

POST

/axapi/v3/axdebug

axdebug attributes

```
POST /axapi/v3/axdebug
Payload:
{
    "axdebug": {
        "count": 0,
        "apply-config": {
            "config-file": "a"
        }
```

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```
    }
}
```

Get Object

GET

/axapi/v3/axdebug

axdebug attributes

```
GET /axapi/v3/axdebug
Reponse:
{
    "axdebug": {
        "count": 3000,
        "incoming": 1,
        "outgoing": 1,
        "length": 1518,
        "maxfile": 100,
        "sess-filter-dis": 0,
        "timeout": 5,
        "uuid": "5347cb8e-b6a9-11ef-ae5b-ae71681635d0",
        "filter-config-list": [
            {
                "number": 1,
                "dst": 0,
                "src": 0,
                "ip": 0,
                "mac": 0,
                "port": 0,
                "proto": 0,
                "inner-ip": 0,
                "inner-ipv6": 0,
                "uuid": "ce9a0860-b6b3-11ef-8f5a-ae71681635d0",
                "user-tag": "a",
                "a10-url": "/axapi/v3/axdebug/filter-config/1"
            }
        ],
        "a10-url": "/axapi/v3/axdebug"
    }
}
```

Modify Object

POST

/axapi/v3/axdebug

axdebug attributes

Replace Object

PUT

/axapi/v3/axdebug

axdebug attributes

Delete Object

DELETE

/axapi/v3/axdebug

axdebug attributes

axdebug attributes

apply-config

Description: apply-config is a **JSON Block**. Please see below for *apply-config*

Type: Object

Reference Object: */axapi/v3/axdebug/apply-config*

capture

Description: capture is a **JSON Block**. Please see below for *capture*

Type: Object

Reference Object: */axapi/v3/axdebug/capture*

count

Description Maximum packets to capture per cpu. Default is 3000. (Maximum packets to capture. For umlimited, specify 0)

Type: number

Range: 0-65535

Default: 3000

delete

Description: delete is a **JSON Block**. Please see below for *delete*

Type: Object

Reference Object: */axapi/v3/axdebug/delete*

exit

Description: exit is a **JSON Block**. Please see below for *exit*

Type: Object

Reference Object: */axapi/v3/axdebug/exit*

filter-config-list

Type: List

Reference Object: */axapi/v3/axdebug/filter-config/{number}*

inc-port-num

Description Port Numbers separated by commas(,) and hyphens(-) without spaces. ex: 4,5,10-30, or separated by spaces and double-quoted(“)

Type: string

Format: string-rlx

Maximum Length: 511 characters

Maximum Length: 1 characters

incoming

Description Incoming interface. (For all ports, don't specify port number.)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

length

Description Packet length to capture

Type: number

Range: 64-12000

Default: 1518

maxfile

Description Maximum number of debug packet files. Default is 100

Type: number

Range: 1-65535

Default: 100

out-port-num

Description Port Numbers separated by commas(,) and hyphens(-) without spaces. ex: 4,5,10-30, or separated by spaces and double-quoted(")

Type: string

Format: string-rlx

Maximum Length: 511 characters

Maximum Length: 1 characters

outgoing

Description Outgoing interface (For all ports, don't specify port number.)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pcapng-config

Description: pcapng-config is a **JSON Block**. Please see below for *pcapng-config*

Type: Object

Reference Object: */axapi/v3/axdebug/pcapng-config*

save-config

Description: save-config is a **JSON Block**. Please see below for *save-config*

Type: Object

Reference Object: */axapi/v3/axdebug/save-config*

sess-filter-dis

Description Disable session based filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Maximum number of minutes for a capture. Default is 5 minutes. For unlimited, specify 0

Type: number

Range: 0-65535

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

delete

Specification	Value
Type	*object*

capture-file

Description Delete a capture file (Specify target filename to change)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

config-file

Description Delete AXDebug config file (Specify target filename to change)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

apply-config

Specification	Value
Type	*object*

config-file

Description config file name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

save-config

Specification	Value
Type	*object*

config-file

Description config file name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

default

Description save to default config file

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture

Specification	Value
Type	*object*

brief

Description Print basic packet information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

current-slot

Description Only for current-slot of chassis

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detail

Description Include packet payload

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

no-stop

Description Non-stop execution

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

save

Description Save packets into file (Specify filename to save packets)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

exit

Specification	Value
Type	*object*

stop-capture

Description stop capture traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

filter-config-list

Specification	Value
Type	*list*
Block object keys	

WORD0

Description WORD0 to compare

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: WORD0, hex, and integer are mutually exclusive

WORD1

Description WORD min value

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

WORD2

Description WORD max value

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

comp-hex

Description value to compare

Type: string

Format: time-hh:mm

Maximum Length: 2 characters

Maximum Length: 1 characters

dst

Description Destination

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: dst and l3-proto are mutually exclusive

dst-ip

Description dest IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-ipv4-address

Description dest ip address

Type: string

Format: ipv4-address

dst-mac

Description dest mac address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-mac-addr

Description dest mac address

Type: string

Format: mac-address

dst-port

Description dest port number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-port-num

Description dest Port number

Type: number

Range: 1-65535

hex

Description Define hex value

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: hex,integer, word, and WORD0 are mutually exclusive

inner-ip

Description IP in IP or IP in IPv6 packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: inner-ip and l3-proto are mutually exclusive

inner-ipv4-address

Description IP address

Type: string

Format: ipv4-address

inner-ipv4-netmask

Description IP subnet mask

Type: string

Format: ipv4-netmask

inner-ipv6

Description IPv6 in IPv6 or IPv6 in IPv4 packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: inner-ipv6 and l3-proto are mutually exclusive

inner-ipv6-address

Description IPv6 address

Type: string

Format: ipv6-address

integer

Description Define decimal value

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: integer,hex, word, and WORD0 are mutually exclusive

integer-comp

Description value to compare

Type: number

Range: 1-255

integer-max

Description max value

Type: number

Range: 1-255

integer-min

Description min value

Type: number

Range: 1-255

ip

Description IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: ip, l3-proto, and ipv6 are mutually exclusive

ipv4-address

Description ip address

Type: string

Format: ipv4-address

ipv4-netmask

Description IP subnet mask

Type: string

Format: ipv4-netmask

ipv6

Description IPV6

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: ipv6, l3-proto, and ip are mutually exclusive

ipv6-address

Description ipv6 address

Type: string

Format: ipv6-address

l3-proto

Description 'arp': arp; 'neighbor': neighbor;

Type: string

Supported Values: arp, neighbor

Mutual Exclusion: l3-proto,dst, src, ip, ipv6, mac, port, proto, offset, inner-ip, and inner-ipv6 are mutually exclusive

length

Description byte length

Type: number

Range: 1-65535

mac

Description mac address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: mac and l3-proto are mutually exclusive

mac-addr

Description mac address

Type: string

Format: mac-address

max-hex

Description max value

Type: string

Format: time-hh:mm

Maximum Length: 2 characters

Maximum Length: 1 characters

min-hex

Description min value

Type: string

Format: time-hh:mm

Maximum Length: 2 characters

Maximum Length: 1 characters

number

Description Specify filter id

Type: number

Range: 1-32

offset

Description byte offset

Type: number

Range: 0-65535

Mutual Exclusion: offset and l3-proto are mutually exclusive

oper-range

Description 'gt': greater than; 'gte': greater than or equal to; 'se': smaller than or equal to; 'st': smaller than; 'eq': equal to; 'range': select a range;

Type: string

Supported Values: gt, gte, se, st, eq, range

port

Description port configurations

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port and l3-proto are mutually exclusive

port-num-max

Description max port number

Type: number

Range: 1-65535

port-num-min

Description min port number

Type: number

Range: 1-65535

prot-num

Description protocol number

Type: number

Range: 1-255

Mutual Exclusion: prot-num and proto-val are mutually exclusive

proto

Description ip protocol number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: proto and l3-proto are mutually exclusive

proto-val

Description 'icmp': icmp; 'icmpv6': icmpv6; 'tcp': tcp; 'udp': udp;

Type: string

Supported Values: icmp, icmpv6, tcp, udp

Mutual Exclusion: proto-val and prot-num are mutually exclusive

src

Description Src

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: src and l3-proto are mutually exclusive

src-ip

Description src IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-ipv4-address

Description src ip address

Type: string

Format: ipv4-address

src-mac

Description src mac address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-mac-addr

Description src mac address

Type: string

Format: mac-address

src-port

Description src port number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-port-num

Description src Port number

Type: number

Range: 1-65535

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

word

Description Define hex value

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: word, hex, and integer are mutually exclusive

pcapng-config

Specification	Value
Type	*object*

exit

Description Exit from axdebug pcapng mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pcapng-enable

Description Enable pcapng

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ssl-key-enable

Description Enable ssl key tracking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.16.2 axdebug filter-config

Global debug filter

filter-config Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*number*
Collection Name	*filter-config-list*
Collection URI	/axapi/v3/axdebug/filter-config
Element Name	filter-config
Element URI	/axapi/v3/axdebug/filter-config/{number}
Element Attributes	filter-config_attributes
Partition Visibility	shared
Schema	`filter-config schema`

Operations Allowed:

Create Object

POST

/axapi/v3/axdebug/filter-config

filter-config attributes

```
POST /axapi/v3/axdebug/filter-config/
Payload:
{
    "filter-config": {
        "number": 1,
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/axdebug/filter-config

filter-config attributes

Get Object

GET

/axapi/v3/axdebug/filter-config/{number}

filter-config attributes

```
GET /axapi/v3/axdebug/filter-config/1
Reponse:
{
```

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```
    "filter-config": {
        "number": 1,
        "dst": 0,
        "src": 0,
        "ip": 0,
        "mac": 0,
        "port": 0,
        "proto": 0,
        "inner-ip": 0,
        "inner-ipv6": 0,
        "uuid": "a2e238da-b6b5-11ef-8f5a-ae71681635d0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/axdebug/filter-config/1"
    }
}
```


Get List

GET

/axapi/v3/axdebug/filter-config

filter-config-list

Modify Object

POST

/axapi/v3/axdebug/filter-config/{number}

filter-config attributes

Replace Object

PUT

/axapi/v3/axdebug/filter-config/{number}

filter-config attributes

Replace List

PUT

/axapi/v3/axdebug/filter-config

filter-config-list

Delete Object

DELETE

/axapi/v3/axdebug/filter-config/{number}

filter-config attributes

filter-config-list

filter-config-list is **JSON List** of *filter-config attributes*

filter-config-list : [

{ *filter-config attributes* },

{ *filter-config attributes* },

...

]

filter-config attributes

WORD0

Description WORD0 to compare

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: WORD0, hex, and integer are mutually exclusive

WORD1

Description WORD min value

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

WORD2

Description WORD max value

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

comp-hex

Description value to compare

Type: string

Format: time-hh:mm

Maximum Length: 2 characters

Maximum Length: 1 characters

dst

Description Destination

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: dst and l3-proto are mutually exclusive

dst-ip

Description dest IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-ipv4-address

Description dest ip address

Type: string

Format: ipv4-address

dst-mac

Description dest mac address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-mac-addr

Description dest mac address

Type: string

Format: mac-address

dst-port

Description dest port number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-port-num

Description dest Port number

Type: number

Range: 1-65535

hex

Description Define hex value

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: hex,integer, word, and WORD0 are mutually exclusive

inner-ip

Description IP in IP or IP in IPv6 packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: inner-ip and l3-proto are mutually exclusive

inner-ipv4-address

Description IP address

Type: string

Format: ipv4-address

inner-ipv4-netmask

Description IP subnet mask

Type: string

Format: ipv4-netmask

inner-ipv6

Description IPv6 in IPv6 or IPv6 in IPv4 packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: inner-ipv6 and l3-proto are mutually exclusive

inner-ipv6-address

Description IPv6 address

Type: string

Format: ipv6-address

integer

Description Define decimal value

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: integer,hex, word, and WORD0 are mutually exclusive

integer-comp

Description value to compare

Type: number

Range: 1-255

integer-max

Description max value

Type: number

Range: 1-255

integer-min

Description min value

Type: number

Range: 1-255

ip

Description IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: ip, l3-proto, and ipv6 are mutually exclusive

ipv4-address

Description ip address

Type: string

Format: ipv4-address

ipv4-netmask

Description IP subnet mask

Type: string

Format: ipv4-netmask

ipv6

Description IPV6

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: ipv6, l3-proto, and ip are mutually exclusive

ipv6-address

Description ipv6 address

Type: string

Format: ipv6-address

l3-proto

Description ‘arp’: arp; ‘neighbor’: neighbor;

Type: string

Supported Values: arp, neighbor

Mutual Exclusion: l3-proto,dst, src, ip, ipv6, mac, port, proto, offset, inner-ip, and inner-ipv6 are mutually exclusive

length

Description byte length

Type: number

Range: 1-65535

mac

Description mac address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: mac and l3-proto are mutually exclusive

mac-addr

Description mac address

Type: string

Format: mac-address

max-hex

Description max value

Type: string

Format: time-hh:mm

Maximum Length: 2 characters

Maximum Length: 1 characters

min-hex

Description min value

Type: string

Format: time-hh:mm

Maximum Length: 2 characters

Maximum Length: 1 characters

number

Description Specify filter id

Type: number

Range: 1-32

offset

Description byte offset

Type: number

Range: 0-65535

Mutual Exclusion: offset and l3-proto are mutually exclusive

oper-range

Description 'gt': greater than; 'gte': greater than or equal to; 'se': smaller than or equal to; 'st': smaller than; 'eq': equal to; 'range': select a range;

Type: string

Supported Values: gt, gte, se, st, eq, range

port

Description port configurations

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: port and l3-proto are mutually exclusive

port-num-max

Description max port number

Type: number

Range: 1-65535

port-num-min

Description min port number

Type: number

Range: 1-65535

prot-num

Description protocol number

Type: number

Range: 1-255

Mutual Exclusion: prot-num and proto-val are mutually exclusive

proto

Description ip protocol number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: proto and l3-proto are mutually exclusive

proto-val

Description 'icmp': icmp; 'icmpv6': icmpv6; 'tcp': tcp; 'udp': udp;

Type: string

Supported Values: icmp, icmpv6, tcp, udp

Mutual Exclusion: proto-val and prot-num are mutually exclusive

src

Description Src

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: src and l3-proto are mutually exclusive

src-ip

Description src IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-ipv4-address

Description src ip address

Type: string

Format: ipv4-address

src-mac

Description src mac address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-mac-addr

Description src mac address

Type: string

Format: mac-address

src-port

Description src port number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-port-num

Description src Port number

Type: number

Range: 1-65535

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

word

Description Define hex value

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: word, hex, and integer are mutually exclusive

2.16.3 axdebug pcapng-config

Configure pacpng

pcapng-config Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pcapng-config
Element URI	/axapi/v3/axdebug/pcapng-config
Element Attributes	pcapng-config_attributes
Partition Visibility	shared
Schema	`pcapng-config schema`

Operations Allowed:

Create Object

POST

/axapi/v3/axdebug/pcapng-config

pcapng-config attributes

Get Object

GET

/axapi/v3/axdebug/pcapng-config

pcapng-config attributes

Modify Object

POST

/axapi/v3/axdebug/pcapng-config

pcapng-config attributes

Replace Object

PUT

/axapi/v3/axdebug/pcapng-config

pcapng-config attributes

Delete Object

DELETE

/axapi/v3/axdebug/pcapng-config

pcapng-config attributes

pcapng-config attributes

exit

Description Exit from axdebug pcapng mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pcapng-enable

Description Enable pcapng

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ssl-key-enable

Description Enable ssl key tracking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.17 backup

Objects:

2.17.1 backup

Backup system files

backup Specification

Parameter	Value
Type	*operational*
Element Name	backup
Element URI	/axapi/v3/backup
Element Attributes	backup_attributes
Partition Visibility	shared
Schema	`backup schema`

Operations Allowed:

EXECUTE Object

POST

/axapi/v3/backup

backup attributes

backup attributes

log

Description: log is a **JSON Block**. Please see below for *log*

Type: Object

Reference Object: */axapi/v3/backup/log*

status

Description: status is a **JSON Block**. Please see below for *status*

Type: Object

Reference Object: */axapi/v3/backup/status*

store

Description: store is a **JSON Block**. Please see below for *store*

Type: Object

Reference Object: */axapi/v3/backup/store*

system

Description: system is a **JSON Block**. Please see below for *system*

Type: Object

Reference Object: */axapi/v3/backup/system*

status

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

system

Specification	Value
Type	*object*

encrypt

Description Encrypt the backup file

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

password

Description password for the remote site

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

remote-file

Description profile name for remote url

Type: string

Format: url

store-name

Description Save backup store information

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

use-mgmt-port

Description Use management port as source port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

store

Specification	Value
Type	*object*

creat-cfg

Description: creat-cfg is a **JSON Block**. Please see below for *store_creat-cfg*

Type: Object

delete-cfg

Description: delete-cfg is a **JSON Block**. Please see below for *store_delete-cfg*

Type: Object

store_delete-cfg

Specification	Value
Type	*object*

delete

Description Delete store

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

store-name-del

Description profile name for deleting

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

store_creat-cfg

Specification	Value
Type	*object*

create

Description Create store

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

remote-file

Description profile name for remote url

Type: string

Format: url

store-name

Description profile name to store remote url

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

log

Specification	Value
Type	*object*

all

Description all log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

core

Description Backup core files only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

date

Description specify number of days

Type: number

Range: 1-31

day

Description Most recent day

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

expedite

Description Expedite the Backup

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

messages

Description Backup messages file only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

month

Description Most recent month

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

password

Description password for the remote site

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

period

Description Specify backup period

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

remote-file

Description profile name for remote url

Type: string

Format: url

showtech

Description Backup showtech files only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

stats-data

Description Backup web statistical data

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

store-name

Description Save backup store information

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

use-mgmt-port

Description Use management port as source port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

week

Description Most recent week

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.17.2 backup status oper

Operational Status for the object status

status Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	status
Element URI	/axapi/v3/backup/status/oper
Element Attributes	status_attributes
Partition Visibility	None
Schema	`status schema`

Operations Allowed:

Create Object

POST

/axapi/v3/backup/status/oper

status attributes

Get Object

GET

/axapi/v3/backup/status/oper

status attributes

Modify Object

POST

/axapi/v3/backup/status/oper

status attributes

Replace Object

PUT

/axapi/v3/backup/status/oper

status attributes

Delete Object

DELETE

/axapi/v3/backup/status/oper

status attributes

status attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

message

Description

Type: string

progress

Description

Type: number

size

Description

Type: number

status

Description

Type: number

2.18 backup-periodic

Objects:

2.18.1 backup-periodic

Configure backup periodically

backup-periodic Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	backup-periodic
Element URI	/axapi/v3/backup-periodic
Element Attributes	backup-periodic_attributes
Partition Visibility	shared
Schema	`backup-periodic schema`

Operations Allowed:

Create Object

POST

/axapi/v3/backup-periodic

backup-periodic attributes

```
POST /axapi/v3/backup-periodic
Payload:
{
    "backup-periodic": {
        "system": 1,
        "day": 1,
        "remote-file": "http://example.com/axapi/v3health/postfile_url/stats4",
        "encrypt": 1
    }
}
```

Get Object

GET

/axapi/v3/backup-periodic

backup-periodic attributes

```
GET /axapi/v3/backup-periodic
Reponse:
{
    "backup-periodic": {
        "system": 1,
        "log": 0,
        "fixed-nat": 0,
        "day": 1,
        "encrypt": 1,
        "use-mgmt-port": 0,
        "remote-file": "http://example.com/axapi/v3health/postfile_url/stats4",
        "uuid": "7e51aa34-0929-11f0-b98c-695a9b168143",
        "a10-url": "/axapi/v3/backup-periodic"
    }
}
```

Modify Object

POST

/axapi/v3/backup-periodic

backup-periodic attributes

Replace Object

PUT

/axapi/v3/backup-periodic

backup-periodic attributes

Delete Object

DELETE

/axapi/v3/backup-periodic

backup-periodic attributes

```
DELETE /axapi/v3/backup-periodic
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

backup-periodic attributes

day

Description Specify interval days

Type: number

Range: 1-199

Mutual Exclusion: day, hour, and week are mutually exclusive

encrypt

Description Encrypt the backup file

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fixed-nat

Description Backup fixed-nat port mapping files

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

hour

Description Specify interval hours

Type: number

Range: 1-65534

Mutual Exclusion: hour, day, and week are mutually exclusive

log

Description Backup log files

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

remote-file

Description profile name for remote url

Type: string

Format: url

store-name

Description profile name to store remote url

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

system

Description Backup system files

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

use-mgmt-port

Description Use management port as source port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

week

Description Specify interval weeks

Type: number

Range: 1-199

Mutual Exclusion: week, day, and hour are mutually exclusive

2.19 banner

Objects:

2.19.1 banner

Define a login banner

banner Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	banner
Element URI	/axapi/v3/banner
Element Attributes	banner_attributes
Partition Visibility	shared
Schema	`banner schema`

Operations Allowed:

Create Object

POST

/axapi/v3/banner

banner attributes

```
POST /axapi/v3/banner
Payload:
{
    "banner": {
        "exec-banner-cfg": {
            "exec": 1
        }
    }
}
```

Get Object

GET

/axapi/v3/banner

banner attributes

```
GET /axapi/v3/banner
Reponse:
{
    "banner": {
        "exec-banner-cfg": {
            "exec": 1
```

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```
        },
        "login-banner-cfg": {
            "login": 0
        },
        "uuid": "0f97da2a-b6b6-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/banner"
    }
}
```

Modify Object

POST

/axapi/v3/banner

banner attributes

Replace Object

PUT

/axapi/v3/banner

banner attributes

```
PUT /axapi/v3/banner
Payload:
{
    "banner": {
        "exec-banner-cfg": {
            "exec": 0
        }
    }
}
```

Delete Object

DELETE

/axapi/v3/banner

banner attributes

banner attributes

exec-banner-cfg

Description: exec-banner-cfg is a **JSON Block**. Please see below for *exec-banner-cfg*

Type: Object

login-banner-cfg

Description: login-banner-cfg is a **JSON Block**. Please see below for *login-banner-cfg*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

exec-banner-cfg

Specification	Value
Type	*object*

exec

Description Set EXEC process creation banner

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exec-banner

Description Banner text, string n is taken as line break of multi-line banner text, use \n for n, 077 for ? and 011 for tab

Type: string

Format: string-rlx

Maximum Length: 2048 characters

Maximum Length: 1 characters

login-banner-cfg

Specification	Value
Type	*object*

login

Description Set login banner

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

login-banner

Description Banner text, string n is taken as line break of multi-line banner text, use \n to indicate n

Type: string

Format: string-rlx

Maximum Length: 2048 characters

Maximum Length: 1 characters

2.20 bgp

Objects:

2.20.1 bgp

Border Gateway Protocol (BGP)

bgp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	bgp
Element URI	/axapi/v3/bgp
Element Attributes	bgp_attributes
Partition Visibility	shared
Schema	`bgp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/bgp

bgp attributes

```
POST /axapi/v3/bgp
Payload:
{
    "bgp": {
        "extended-asn-cap": 1,
        "asdot": 1
    }
}
```

Get Object

GET

/axapi/v3/bgp

bgp attributes

```
GET /axapi/v3/bgp
Reponse:
{
    "bgp": {
```

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```
        "extended-asn-cap": 1,
        "disable-advertisement": {
            "on-boot": 0
        },
        "asdot": 1,
        "asdot-plus": 0,
        "nexthop-trigger": {
            "enable": 0
        },
        "uuid": "142bab00-09b5-11f0-b934-3fb830de0af9",
        "a10-url": "/axapi/v3/bgp"
    }
}
```

Modify Object

POST

/axapi/v3/bgp

bgp attributes

Replace Object

PUT

/axapi/v3/bgp

bgp attributes

```
PUT /axapi/v3/bgp
Payload:
{
    "bgp": {
        "extended-asn-cap": 1,
        "asdot": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/bgp

bgp attributes

```
DELETE /axapi/v3/bgp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

bgp attributes

asdot

Description Enable ASDot notation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

asdot-plus

Description Enable ASDot+ notation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-advertisement

Description: disable-advertisement is a **JSON Block**. Please see below for *disable-advertisement*

Type: Object

extended-asn-cap

Description Enable the router to send 4-octet ASN capabilities

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

nexthop-trigger

Description: nexthop-trigger is a **JSON Block**. Please see below for *nexthop-trigger*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

disable-advertisement

Specification	Value
Type	*object*

on-boot

Description Upon boot-up

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

nexthop-trigger

Specification	Value
Type	*object*

delay

Description Configure nexthop trigger delay time interval (Nexthop Trigger Delay time interval between 1 and 100)

Type: number

Range: 1-100

enable

Description Enable the nexthop tracking functionality

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.21 bios-prog

Objects:

2.21.1 bios-prog

Programming for BIOS

bios-prog Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	bios-prog
Element URI	/axapi/v3/bios-prog
Element Attributes	bios-prog_attributes
Partition Visibility	shared
Schema	`bios-prog schema`

Operations Allowed:

Create Object

POST

/axapi/v3/bios-prog

bios-prog attributes

Get Object

GET

/axapi/v3/bios-prog

bios-prog attributes

Modify Object

POST

/axapi/v3/bios-prog

bios-prog attributes

Replace Object

PUT

/axapi/v3/bios-prog

bios-prog attributes

Delete Object

DELETE

/axapi/v3/bios-prog

bios-prog attributes

bios-prog attributes

filename

Description Give the filename of the flash.rom file

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.22 bootimage

Objects:

2.22.1 bootimage

Set next Boot Image

bootimage Specification

Parameter	Value
Type	*operational*
Element Name	bootimage
Element URI	/axapi/v3/bootimage
Element Attributes	bootimage_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/bootimage/oper
Schema	`bootimage schema`

Operations Allowed:

EXECUTE Object

POST

/axapi/v3/bootimage

bootimage attributes

bootimage attributes

cf-cfg

Description: cf-cfg is a **JSON Block**. Please see below for *cf-cfg*

Type: Object

hd-cfg

Description: hd-cfg is a **JSON Block**. Please see below for *hd-cfg*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

hd-cfg

Specification	Value
Type	*object*

hd

Description Hard disk

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pri

Description Primary image

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sec

Description Secondary image

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cf-cfg

Specification	Value
Type	*object*

cf

Description Compact flash

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cf-pri

Description Primary image

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.22.2 bootimage oper

Operational Status for the object bootimage

bootimage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	bootimage
Element URI	/axapi/v3/bootimage/oper
Element Attributes	bootimage_attributes
Partition Visibility	None
Schema	`bootimage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/bootimage/oper

bootimage attributes

Get Object

GET

/axapi/v3/bootimage/oper

bootimage attributes

Modify Object

POST

/axapi/v3/bootimage/oper

bootimage attributes

Replace Object

PUT

/axapi/v3/bootimage/oper

bootimage attributes

Delete Object

DELETE

/axapi/v3/bootimage/oper

bootimage attributes

bootimage attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

cf-default

Description

Type: string

cf-pri

Description

Type: string

cf-sec

Description

Type: string

hd-default

Description

Type: string

hd-pri

Description

Type: string

hd-sec

Description

Type: string

2.23 call-home

Objects:

2.23.1 call-home

Call home information

call-home Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	call-home
Element URI	/axapi/v3/call-home
Element Attributes	call-home_attributes
Partition Visibility	shared
Schema	`call-home schema`

Operations Allowed:

Get Object

GET

/axapi/v3/call-home

call-home_attributes

call-home attributes

profile

Description: profile is a **JSON Block**. Please see below for *profile*

Type: Object

Reference Object: */axapi/v3/call-home/profile*

profile

Specification	Value
Type	*object*

action

Description 'register': Register the device to the portal; 'deregister': Deregister the device from the portal;

Type: string

Supported Values: register, deregister

Default: register

export-policy

Description 'restrictive': Export minimal information about system and config, default policy; 'permissive': Export as much as possible information about system, config and solution data;

Type: string

Supported Values: restrictive, permissive

Default: restrictive

ipv4

Description set IPV4 address for the host

Type: string

Format: ipv4-address

Mutual Exclusion: ipv4, name, and ipv6 are mutually exclusive

ipv6

Description set IPV6 address for the host

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6, name, and ipv4 are mutually exclusive

name

Description set hostname url for the host

Type: string

Format: host

Mutual Exclusion: name, ipv4, and ipv6 are mutually exclusive

port

Description Set port for the call home portal

Type: number

Range: 1-32767

use-mgmt-port

Description Use management port for connections

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.23.2 call-home profile

Call home profile

profile Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	profile
Element URI	/axapi/v3/call-home/profile
Element Attributes	profile_attributes
Partition Visibility	shared
Schema	`profile schema`

Operations Allowed:

Create Object

POST

/axapi/v3/call-home/profile

profile attributes

```
POST /axapi/v3/call-home/profile
Payload:
{
    "profile": {
        "export-policy": "restrictive"
    }
}
```

Get Object

GET

/axapi/v3/call-home/profile

profile attributes

```
GET /axapi/v3/call-home/profile
Reponse:
{
    "profile": {
        "export-policy": "restrictive",
        "action": "register",
        "uuid": "89965aa0-b6a6-11ef-b71b-ae71681635d0",
        "a10-url": "/axapi/v3/call-home/profile"
    }
}
```

Modify Object

POST

/axapi/v3/call-home/profile

profile attributes

Replace Object

PUT

/axapi/v3/call-home/profile

profile attributes

Delete Object

DELETE

/axapi/v3/call-home/profile

profile attributes

```
DELETE /axapi/v3/call-home/profile
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

profile attributes

action

Description 'register': Register the device to the portal; 'deregister': Deregister the device from the portal;

Type: string

Supported Values: register, deregister

Default: register

export-policy

Description 'restrictive': Export minimal information about system and config, default policy; 'permissive': Export as much as possible information about system, config and solution data;

Type: string

Supported Values: restrictive, permissive

Default: restrictive

ipv4

Description set IPV4 address for the host

Type: string

Format: ipv4-address

Mutual Exclusion: ipv4, name, and ipv6 are mutually exclusive

ipv6

Description set IPV6 address for the host

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6, name, and ipv4 are mutually exclusive

name

Description set hostname url for the host

Type: string

Format: host

Mutual Exclusion: name, ipv4, and ipv6 are mutually exclusive

port

Description Set port for the call home portal

Type: number

Range: 1-32767

use-mgmt-port

Description Use management port for connections

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.24 capture-config

Objects:

2.24.1 capture-config

Packet Capture-Configuration

capture-config Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*capture-config-list*
Collection URI	/axapi/v3/capture-config
Element Name	capture-config
Element URI	/axapi/v3/capture-config/{name}
Element Attributes	capture-config_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/capture-config/{name}/oper
Schema	`capture-config schema`

Operations Allowed:

Create Object

POST

/axapi/v3/capture-config

capture-config attributes

```
POST /axapi/v3/capture-config/
Payload:
{
    "capture-config": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/capture-config

capture-config attributes

Get Object

GET

/axapi/v3/capture-config/{name}

capture-config attributes

Get List

GET

/axapi/v3/capture-config

capture-config-list

Modify Object

POST

/axapi/v3/capture-config/{name}

capture-config attributes

Replace Object

PUT

/axapi/v3/capture-config/{name}

capture-config attributes

Replace List

PUT

/axapi/v3/capture-config

capture-config-list

Delete Object

DELETE

/axapi/v3/capture-config/{name}

capture-config attributes

capture-config-list

capture-config-list is **JSON List** of *capture-config attributes*

capture-config-list : [

{ *capture-config attributes* },

{ *capture-config attributes* },

...

]

capture-config attributes

count

Description Specify maximum packet number. (default 0 for unlimited)

Type: number

Range: 0-65535

Default: 0

Mutual Exclusion: count and file-history-size are mutually exclusive

enable

Description Enable capture-config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

file-history-size

Description (Default) Specify pcapng file history size in MB (default 10)

Type: number

Range: 1-6144

Mutual Exclusion: file-history-size, file-size, and count are mutually exclusive

file-size

Description Specify pcapng filesize in MB (default 10)

Type: number

Range: 1-6144

Mutual Exclusion: file-size and file-history-size are mutually exclusive

filter

Description Filter packets to save using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1024 characters

Maximum Length: 1 characters

length

Description Packet length Bytes to capture (Default 128)

Type: number

Range: 64-1518

name

Description capture-config name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.25 capture-config-oper

Objects:

2.25.1 capture-config-oper

capture-config

capture-config-oper Specification

Parameter	Value
Type	*operational*
Element Name	capture-config-oper
Element URI	/axapi/v3/capture-config-oper
Element Attributes	capture-config-oper_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/capture-config-oper/oper
Schema	`capture-config-oper schema`

Operations Allowed:

EXECUTE Object

POST

/axapi/v3/capture-config-oper

capture-config-oper attributes

capture-config-oper attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.25.2 capture-config-oper oper

Operational Status for the object capture-config-oper

capture-config-oper Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	capture-config-oper
Element URI	/axapi/v3/capture-config-oper/oper
Element Attributes	capture-config-oper_attributes
Partition Visibility	None
Schema	`capture-config-oper schema`

Operations Allowed:

Create Object

POST

/axapi/v3/capture-config-oper/oper

capture-config-oper attributes

Get Object

GET

/axapi/v3/capture-config-oper/oper

capture-config-oper attributes

Modify Object

POST

/axapi/v3/capture-config-oper/oper

capture-config-oper attributes

Replace Object

PUT

/axapi/v3/capture-config-oper/oper

capture-config-oper attributes

Delete Object

DELETE

/axapi/v3/capture-config-oper/oper

capture-config-oper attributes

capture-config-oper attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

action

Description

Type: string

Supported Values: clear, status

filesize_kbyte

Description

Type: number

filter

Description

Type: string

has_file_history

Description

Type: number

max_filesize_kbyte

Description

Type: number

max_pkt_count

Description

Type: number

name

Description

Type: string

pkt_count

Description

Type: number

snaplen

Description

Type: number

status

Description

Type: string

Supported Values: Enabled, Disabled, Finished

2.26 cgnv6

Objects:

2.26.1 cgnv6

CGN and IPv6 Migration commands

cgnv6 Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	cgnv6
Element URI	/axapi/v3/cgnv6
Element Attributes	cgnv6_attributes
Partition Visibility	shared
Schema	`cgnv6 schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6

cgnv6_attributes

cgnv6 attributes

ddos-protection

Description: ddos-protection is a **JSON Block**. Please see below for *ddos-protection*

Type: Object

Reference Object: */axapi/v3/cgnv6/ddos-protection*

dns64

Description: dns64 is a **JSON Block**. Please see below for *dns64*

Type: Object

Reference Object: */axapi/v3/cgnv6/dns64*

dns64-virtualserver-list

Type: List

Reference Object: */axapi/v3/cgnv6/dns64-virtualserver/{name}*

ds-lite

Description: ds-lite is a **JSON Block**. Please see below for *ds-lite*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite*

ecmp

Description: ecmp is a **JSON Block**. Please see below for *ecmp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ecmp*

fixed-nat

Description: fixed-nat is a **JSON Block**. Please see below for *fixed-nat*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat*

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/cgnv6/global*

http-alg

Description: http-alg is a **JSON Block**. Please see below for *http-alg*

Type: Object

Reference Object: */axapi/v3/cgnv6/http-alg*

icmp

Description: icmp is a **JSON Block**. Please see below for *icmp*

Type: Object

Reference Object: */axapi/v3/cgnv6/icmp*

l4

Description: l4 is a **JSON Block**. Please see below for *l4*

Type: Object

Reference Object: */axapi/v3/cgnv6/l4*

logging

Description: logging is a **JSON Block**. Please see below for *logging*

Type: Object

Reference Object: */axapi/v3/cgnv6/logging*

lsn

Description: lsn is a **JSON Block**. Please see below for *lsn*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn*

lsn-lid-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn-lid/{lid-number}*

lsn-radius-profile-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn-radius-profile/{lid-profile-index}*

lsn-rule-list-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn-rule-list/{name}*

lw-4o6

Description: lw-4o6 is a **JSON Block**. Please see below for *lw-4o6*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6*

map

Description: map is a **JSON Block**. Please see below for *map*

Type: Object

Reference Object: */axapi/v3/cgnv6/map*

nat

Description: nat is a **JSON Block**. Please see below for *nat*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat*

nat46-stateless

Description: nat46-stateless is a **JSON Block**. Please see below for *nat46-stateless*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat46-stateless*

nat64

Description: nat64 is a **JSON Block**. Please see below for *nat64*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64*

nptv6

Description: nptv6 is a **JSON Block**. Please see below for *nptv6*

Type: Object

Reference Object: */axapi/v3/cgnv6/nptv6*

one-to-one

Description: one-to-one is a **JSON Block**. Please see below for *one-to-one*

Type: Object

Reference Object: */axapi/v3/cgnv6/one-to-one*

pcp

Description: pcp is a **JSON Block**. Please see below for *pcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/pcp*

port-batch-v1

Description: port-batch-v1 is a **JSON Block**. Please see below for *port-batch-v1*

Type: Object

Reference Object: */axapi/v3/cgnv6/port-batch-v1*

port-list-list

Type: List

Reference Object: */axapi/v3/cgnv6/port-list/{name}*

resource-usage

Description: resource-usage is a **JSON Block**. Please see below for *resource-usage*

Type: Object

Reference Object: */axapi/v3/cgnv6/resource-usage*

scaleout

Description: scaleout is a **JSON Block**. Please see below for *scaleout*

Type: Object

Reference Object: */axapi/v3/cgnv6/scaleout*

sctp

Description: sctp is a **JSON Block**. Please see below for *sctp*

Type: Object

Reference Object: */axapi/v3/cgnv6/sctp*

server-list

Type: List

Reference Object: */axapi/v3/cgnv6/server/{name}*

service-group-list

Type: List

Reference Object: */axapi/v3/cgnv6/service-group/{name}*

shared-service-group

Description: shared-service-group is a **JSON Block**. Please see below for *shared-service-group*

Type: Object

Reference Object: */axapi/v3/cgnv6/shared-service-group*

sixrd

Description: sixrd is a **JSON Block**. Please see below for *sixrd*

Type: Object

Reference Object: */axapi/v3/cgnv6/sixrd*

stateful-firewall

Description: stateful-firewall is a **JSON Block**. Please see below for *stateful-firewall*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall*

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

Reference Object: */axapi/v3/cgnv6/template*

translation

Description: translation is a **JSON Block**. Please see below for *translation*

Type: Object

Reference Object: */axapi/v3/cgnv6/translation*

lsn

Specification	Value
Type	*object*

alg

Description: alg is a **JSON Block**. Please see below for *lsn_alg*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg*

all-sessions

Description: all-sessions is a **JSON Block**. Please see below for *lsn_all-sessions*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/all-sessions*

data-sessions

Description: data-sessions is a **JSON Block**. Please see below for *lsn_data-sessions*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/data-sessions*

endpoint-independent-filtering

Description: endpoint-independent-filtering is a **JSON Block**. Please see below for *lsn_endpoint-independent-filtering*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-filtering*

endpoint-independent-mapping

Description: endpoint-independent-mapping is a **JSON Block**. Please see below for *lsn_endpoint-independent-mapping*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-mapping*

enhanced-user-tracking

Description: enhanced-user-tracking is a **JSON Block**. Please see below for *lsn_enhanced-user-tracking*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/enhanced-user-tracking*

full-cone-session

Description: full-cone-session is a **JSON Block**. Please see below for *lsn_full-cone-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/full-cone-session*

global

Description: global is a **JSON Block**. Please see below for *lsn_global*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/global*

health-check-gateway-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn/health-check-gateway/{ipv4-addr}+{ipv6-addr}*

hw-accelerate

Description: hw-accelerate is a **JSON Block**. Please see below for *lsn_hw-accelerate*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/hw-accelerate*

inside

Description: inside is a **JSON Block**. Please see below for *lsn_inside*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/inside*

per-instance

Description: per-instance is a **JSON Block**. Please see below for *lsn_per-instance*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/per-instance*

performance

Description: performance is a **JSON Block**. Please see below for *lsn_performance*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/performance*

port-overloading

Description: port-overloading is a **JSON Block**. Please see below for *lsn_port-overloading*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading*

port-reservation-entries

Description: port-reservation-entries is a **JSON Block**. Please see below for *lsn_port-reservation-entries*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-reservation-entries*

port-reservation-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn/port-reservation/{inside}+{inside-port-start}+{inside-port-end}+{nat}+{nat-port-start}+{nat-port-end}*

radius

Description: radius is a **JSON Block**. Please see below for *lsn_radius*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/radius*

stun-timeout

Description: stun-timeout is a **JSON Block**. Please see below for *lsn_stun-timeout*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/stun-timeout*

system-status

Description: system-status is a **JSON Block**. Please see below for *lsn_system-status*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/system-status*

tcp

Description: tcp is a **JSON Block**. Please see below for *lsn_tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/tcp*

user-quota-session

Description: user-quota-session is a **JSON Block**. Please see below for *lsn_user-quota-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/user-quota-session*

lsn_all-sessions

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_radius

Specification	Value
Type	*object*

server

Description: server is a **JSON Block**. Please see below for *lsn_radius_server*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/radius/server*

lsn_radius_server

Specification	Value
Type	*object*

accounting-interim-update

Description 'ignore': Ignore (default); 'append-entry': Append the AVPs to existing entry; 'replace-entry': Replace the AVPs of existing entry;

Type: string

Supported Values: ignore, append-entry, replace-entry

Default: ignore

accounting-on

Description 'ignore': Ignore (default); 'delete-entries-using-attribute': Delete entries matching attribute in RADIUS Table;

Type: string

Supported Values: ignore, delete-entries-using-attribute

Default: ignore

accounting-start

Description 'ignore': Ignore; 'append-entry': Append the AVPs to existing entry (default); 'replace-entry': Replace the AVPs of existing entry;

Type: string

Supported Values: ignore, append-entry, replace-entry

Default: append-entry

accounting-stop

Description 'ignore': Ignore; 'delete-entry': Delete the entry (default); 'delete-entry-and-sessions': Delete the entry and data sessions associated;

Type: string

Supported Values: ignore, delete-entry, delete-entry-and-sessions

Default: delete-entry

attribute

Type: List

attribute-name

Description 'msisdn': Clear using MSISDN; 'imei': Clear using IMEI; 'imsi': Clear using IMSI;

Type: string

Supported Values: msisdn, imei, imsi

Mutual Exclusion: attribute-name and custom-attribute-name are mutually exclusive

custom-attribute-name

Description Clear using customized attribute

Type: string

Maximum Length: 15 characters

Maximum Length: 1 characters

Mutual Exclusion: custom-attribute-name and attribute-name are mutually exclusive

disable-reply

Description Toggle option for RADIUS reply packet(Default: Accounting response will be sent)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

listen-port

Description Configure the listen port of RADIUS server (Port number)

Type: number

Range: 1024-65535

remote

Description: remote is a **JSON Block**. Please see below for *lsn_radius_server_remote*

Type: Object

sampling-enable

Type: List

secret

Description Configure shared secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-string

Description The RADIUS secret

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Join a VRRP-A failover group

Type: number

Range: 1-31

lsn_radius_server_remote

Specification	Value
Type	*object*

ip-list

Type: List

lsn_radius_server_remote_ip-list

Specification	Value
Type	*list*
Block object keys	

ip-list-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

ip-list-name

Description IP-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-list-secret

Description Configure shared secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list-secret-string

Description The RADIUS secret

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

lsn_radius_server_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msisdn-received': MSISDN Received; 'imei-received': IMEI Received; 'imsi-received': IMSI Received; 'custom-received': Custom attribute Received; 'radius-request-received': RADIUS Request Received; 'radius-request-dropped': RADIUS Request Dropped (Malformed Packet); 'request-bad-secret-dropped': RADIUS Request Bad Secret Dropped; 'request-no-key-vap-dropped': RADIUS Request No Key Attribute Dropped;

'request-malformed-dropped': RADIUS Request Malformed Dropped; 'request-ignored': RADIUS Request Ignored; 'radius-table-full': RADIUS Request Dropped (Table Full); 'secret-not-configured-dropped': RADIUS Secret Not Configured Dropped; 'ha-standby-dropped': HA Standby Dropped; 'ipv6-prefix-length-mismatch': Framed IPV6 Prefix Length Mismatch; 'invalid-key': Radius Request has Invalid Key Field; 'smp-created': RADIUS SMP Created; 'smp-deleted': RADIUS SMP Deleted; 'smp-mem-allocated': RADIUS SMP Memory Allocated; 'smp-mem-alloc-failed': RADIUS SMP Memory Allocation Failed; 'smp-mem-freed': RADIUS SMP Memory Freed; 'smp-in-rml': RADIUS SMP in RML; 'mem-allocated': RADIUS Memory Allocated; 'mem-alloc-failed': RADIUS Memory Allocation Failed; 'mem-freed': RADIUS Memory Freed; 'ha-sync-create-sent': HA Record Sync Create Sent; 'ha-sync-delete-sent': HA Record Sync Delete Sent; 'ha-sync-create-recv': HA Record Sync Create Received; 'ha-sync-delete-recv': HA Record Sync Delete Received; 'acct-on-filters-full': RADIUS Acct On Request Ignored(Filters Full); 'acct-on-dup-request': Duplicate RADIUS Acct On Request; 'ip-mismatch-delete': Radius Entry IP Mismatch Delete; 'ip-add-race-drop': Radius Entry IP Add Race Drop; 'ha-sync-no-key-vap-dropped': HA Record Sync No key dropped; 'inter-card-msg-fail-drop': Inter-Card Message Fail Drop; 'radius-packets-redirected': RADIUS packets redirected (SO); 'radius-packets-redirect-fail-dropped': RADIUS packets dropped due to redirect failure (SO); 'radius-packets-process-local': RADIUS packets processed locally without redirection (SO); 'radius-packets-dropped-not-lo': RADIUS packets dropped dest not loopback (SO); 'radius-inter-card-dup-redir': RADIUS packet dropped as redirected by other blade (SO);

Type: string

Supported Values: all, msisdn-received, imei-received, imsi-received, custom-received, radius-request-received, radius-request-dropped, request-bad-secret-dropped, request-no-key-vap-dropped, request-malformed-dropped, request-ignored, radius-table-full, secret-not-configured-dropped, ha-standby-dropped, ipv6-prefix-length-mismatch, invalid-key, smp-created, smp-deleted, smp-mem-allocated, smp-mem-alloc-failed, smp-mem-freed, smp-in-rml, mem-allocated, mem-alloc-failed, mem-freed, ha-sync-create-sent, ha-sync-delete-sent, ha-sync-create-recv, ha-sync-delete-recv, acct-on-filters-full, acct-on-dup-request, ip-mismatch-delete, ip-add-race-drop, ha-sync-no-key-vap-dropped, inter-card-msg-fail-drop, radius-packets-redirected, radius-packets-redirect-fail-dropped, radius-packets-process-local, radius-packets-dropped-not-lo, radius-inter-card-dup-redir

lsn_radius_server_attribute

Specification	Value
Type	*list*
Block object keys	

attribute-value

Description 'inside-ipv6-prefix': Framed IPv6 Prefix; 'inside-ip': Inside IP address; 'inside-ipv6': Inside IPv6 address; 'imei': International Mobile Equipment Identity (IMEI); 'imsi': International Mobile Subscriber Identity (IMSI); 'msisdn': Mobile Subscriber Integrated Services Digital Network-Number (MSISDN); 'custom1': Customized attribute 1; 'custom2': Customized attribute 2; 'custom3': Customized attribute 3; 'custom4': Customized attribute 4; 'custom5': Customized attribute 5; 'custom6': Customized attribute 6;

Type: string

Supported Values: inside-ipv6-prefix, inside-ip, inside-ipv6, imei, imsi, msisdn, custom1, custom2, custom3, custom4, custom5, custom6

custom-number

Description RADIUS attribute number

Type: number

Range: 1-255

custom-vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

name

Description Customized attribute name

Type: string

Maximum Length: 15 characters

Maximum Length: 1 characters

number

Description RADIUS attribute number

Type: number

Range: 1-255

prefix-length

Description '32': Prefix length 32; '48': Prefix length 48; '64': Prefix length 64; '80': Prefix length 80; '96': Prefix length 96; '112': Prefix length 112;

Type: string

Supported Values: 32, 48, 64, 80, 96, 112

prefix-number

Description RADIUS attribute number

Type: number

Range: 1-255

prefix-vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

value

Description 'hexadecimal': Type of attribute value is hexadecimal;

Type: string

Supported Values: hexadecimal

vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

lsn_endpoint-independent-mapping

Specification	Value
Type	*object*

tcp

Description: tcp is a **JSON Block**. Please see below for *lsn_endpoint-independent-mapping_tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *lsn_endpoint-independent-mapping_udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp*

lsn_endpoint-independent-mapping_udp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_endpoint-independent-mapping_udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

lsn_endpoint-independent-mapping_tcp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_endpoint-independent-mapping_tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

lsn_port-overloading

Specification	Value
Type	*object*

global

Description: global is a **JSON Block**. Please see below for *lsn_port-overloading_global*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading/global*

port-overloading-status

Description: port-overloading-status is a **JSON Block**. Please see below for *lsn_port-overloading_port-overloading-status*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status*

tcp

Description: tcp is a **JSON Block**. Please see below for *lsn_port-overloading_tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *lsn_port-overloading_udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading/udp*

lsn_port-overloading_port-overloading-status

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_port-overloading_udp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_port-overloading_udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

lsn_port-overloading_global

Specification	Value
Type	*object*

allow-different-user

Description Allow different users to overload the same port (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

unique

Description 'destination-address': Allow overloading when the destination addresses is unique; 'destination-address-and-port': Allow overloading when the destination address and port 2-tuple is unique (default);

Type: string

Supported Values: destination-address, destination-address-and-port

Default: destination-address-and-port

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_port-overloading_tcp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_port-overloading_tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

lsn_system-status

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_health-check-gateway-list

Specification	Value
Type	*list*
Block object keys	

ipv4-addr

Description Specify IPv4 Gateway

Type: string

Format: ipv4-address

Mutual Exclusion: ipv4-addr and ipv6-addr are mutually exclusive

ipv6-addr

Description Specify IPv6 Gateway

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-addr and ipv4-addr are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_alg

Specification	Value
Type	*object*

dns

Description: dns is a **JSON Block**. Please see below for *lsn_alg_dns*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/dns*

esp

Description: esp is a **JSON Block**. Please see below for *lsn_alg_esp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/esp*

ftp

Description: ftp is a **JSON Block**. Please see below for *lsn_alg_ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/ftp*

h323

Description: h323 is a **JSON Block**. Please see below for *lsn_alg_h323*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/h323*

mgcp

Description: mgcp is a **JSON Block**. Please see below for *lsn_alg_mgcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/mgcp*

pptp

Description: pptp is a **JSON Block**. Please see below for *lsn_alg_pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/pptp*

rtp

Description: rtp is a **JSON Block**. Please see below for *lsn_alg_rtp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/rtp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *lsn_alg_rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *lsn_alg_sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *lsn_alg_tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/tftp*

lsn_alg_ftp

Specification	Value
Type	*object*

ftp-value

Description 'disable': Disable FTP ALG for LSN;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_alg_ftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'port-requests': PORT Requests From Client; 'eprt-requests': EPRT Requests From Client; 'lprt-requests': LPRT Requests From Client; 'pasv-replies': PASV Replies From Server; 'epsv-replies': EPSV Replies From Server; 'lpsv-replies': LPSV Replies From Server; 'port-retransmits': Port Mode Request Retransmits; 'pasv-retransmits': Passive Mode Reply Retransmits; 'port-helper-created': Port Mode Helper Created; 'pasv-helper-created':

Passive Mode Helper Created; 'port-helper-freed': Port Mode Helper Freed; 'pasv-helper-freed': Passive Mode Helper Freed; 'port-helper-unused': Port Mode Helper Unused; 'pasv-helper-unused': Passive Mode Helper Unused; 'port-helper-creation-failure': Port Helper Creation Failure; 'pasv-helper-creation-failure': Passive Helper Creation Failure; 'get-conn-ext-failure': Get Conn Extension Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, port-requests, eprt-requests, lprt-requests, pasv-replies, epsv-replies, lpsv-replies, port-retransmits, pasv-retransmits, port-helper-created, pasv-helper-created, port-helper-freed, pasv-helper-freed, port-helper-unused, pasv-helper-unused, port-helper-creation-failure, pasv-helper-creation-failure, get-conn-ext-failure, smp-app-type-mismatch

lsn_alg_sip

Specification	Value
Type	*object*

rtp-stun-timeout

Description RTP/RTCP STUN timeout in minutes (Default is 5 minutes)

Type: number

Range: 2-10

Default: 5

sampling-enable

Type: List

sip-value

Description 'enable': Enable SIP ALG for LSN;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_alg_sip_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'method-register': SIP Method REGISTER; 'method-invite': SIP Method INVITE; 'method-ack': SIP Method ACK; 'method-cancel': SIP Method CANCEL; 'method-bye': SIP Method BYE; 'method-options': SIP Method OPTIONS; 'method-prack': SIP Method PRACK; 'method-subscribe': SIP Method SUBSCRIBE; 'method-notify': SIP Method NOTIFY; 'method-publish': SIP Method PUBLISH; 'method-info': SIP Method INFO; 'method-refer': SIP Method REFER; 'method-message': SIP Method MESSAGE; 'method-update': SIP Method UPDATE; 'method-unknown': SIP Method UNKNOWN; 'parse-error': SIP Message Parse Error; 'req-uri-op-failrue': SIP Operate Request Uri Failure; 'via-hdr-op-failrue': SIP Operate Via Header Failure; 'contact-hdr-op-failrue': SIP Operate Contact Header Failure; 'from-hdr-op-failrue': SIP Operate From Header Failure; 'to-hdr-op-failrue': SIP Operate To Header Failure; 'route-hdr-op-failrue': SIP Operate Route Header Failure; 'record-route-hdr-op-failrue': SIP Operate Record-Route Header Failure; 'content-length-hdr-op-failrue': SIP Operate Content-Length Failure; 'third-party-registration': SIP Third-Party Registration; 'conn-ext-creation-failure': SIP Create Connection Extension Failure; 'alloc-contact-port-failure': SIP Alloc Contact Port Failure; 'outside-contact-port-mismatch': SIP Outside Contact Port Mismatch NAT Port; 'inside-contact-port-mismatch': SIP Inside Contact Port Mismatch; 'third-party-sdp': SIP Third-Party SDP; 'sdp-process-candidate-failure': SIP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': SIP Operate SDP Failure; 'sdp-alloc-port-map-success': SIP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': SIP Alloc SDP Port Map Failure; 'modify-failure': SIP Message Modify Failure; 'rewrite-failure': SIP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'helper-found': SMP Helper Conn Found; 'helper-created': SMP Helper Conn Created; 'helper-deleted': SMP Helper Conn Already Deleted; 'helper-freed': SMP Helper Conn Freed; 'helper-failure': SMP Helper Failure;

Type: string

Supported Values: all, method-register, method-invite, method-ack, method-cancel, method-bye, method-options, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error, req-uri-op-failrue, via-hdr-op-failrue, contact-hdr-op-failrue, from-hdr-op-failrue, to-hdr-op-failrue, route-hdr-op-failrue, record-route-hdr-op-failrue, content-length-hdr-op-failrue, third-party-registration, conn-ext-creation-failure, alloc-contact-port-failure, outside-contact-port-mismatch, inside-contact-port-mismatch, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop, smp-conn-alloc-failure, helper-found, helper-created, helper-deleted, helper-freed, helper-failure

lsn_alg_esp

Specification	Value
Type	*object*

esp-value

Description 'enable': Enable ESP ALG for LSN; 'enable-with-ctrl': Enable ESP ALG for LSN with control session;

Type: string

Supported Values: enable, enable-with-ctrl

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_alg_esp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'placeholder-debug': Placeholder Debug; 'nat-ip-conflict': NAT IP Conflict;

Type: string

Supported Values: all, session-created, placeholder-debug, nat-ip-conflict

lsn_alg_pptp

Specification	Value
Type	*object*

pptp-value

Description 'enable': Enable PPTP ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_alg_pptp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'mismatched-pns-call-id': Mismatched PNS Call ID; 'gre-sessions-created': GRE Sessions Created; 'gre-sessions-freed': GRE Sessions Freed; 'no-gre-session-match': No Matching GRE Session; 'smp-sessions-created': SMP Sessions Created; 'smp-sessions-freed': SMP Sessions Freed; 'smp-session-creation-failure': SMP Session Creation Failures; 'extension-creation-failure': Extension Creation Failures; 'ha-sent': HA Info Sent; 'ha-rcv': HA Info Received; 'ha-no-mem': HA Memory Allocation Failure; 'ha-conflict': HA Call ID Conflicts; 'ha-overwrite': HA Call ID Overwrites; 'ha-call-sent': HA Call Sent; 'ha-call-rcv': HA Call Received; 'ha-smp-conflict': HA SMP Conflicts; 'ha-smp-in-del-q': HA SMP Deleted; 'smp-app-type-mismatch': SMP ALG App Type Mismatch; 'quota-inc': Quota Incremented; 'quota-dec': Quota Decremented; 'quota-inc-not-found': Quota Not Found on Increment; 'quota-dec-not-found': Quota Not Found on Decrement; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-retransmit-wrong-control': Call Reply Retransmit Wrong Control; 'call-reply-retransmit-acquired': Call Reply Retransmit Acquired; 'call-reply-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, mismatched-pns-call-id, gre-sessions-created, gre-sessions-freed, no-gre-session-match, smp-sessions-created, smp-sessions-freed, smp-session-creation-failure, extension-creation-failure, ha-sent, ha-rcv, ha-no-mem, ha-conflict, ha-overwrite, ha-call-sent, ha-call-rcv, ha-smp-conflict, ha-smp-in-del-q, smp-app-type-mismatch, quota-inc, quota-dec, quota-inc-not-found, quota-dec-not-found, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, call-req-retransmit, call-req-new, call-

req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-retransmit-wrong-control, call-reply-retransmit-acquired, call-reply-ext-alloc-failure, smp-client-call-id-mismatch, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

lsn_alg_rtsp

Specification	Value
Type	*object*

rtsp-value

Description 'enable': Enable RTSP ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_alg_rtsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'streams-created': Streams Created; 'streams-freed': Streams Freed; 'stream-creation-failure': Stream Creation Failures; 'ports-allocated': Stream Client Ports Allocated; 'ports-freed': Stream Client Ports Freed; 'port-allocation-failure': Stream Client Port Allocation Failures; 'unknown-client-port-from-server': Server Replies With Unknown Client Ports; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'no-session-mem': Data Session Creation Failures; 'ha-sent': HA Sent; 'ha-rcv': HA RCV; 'smp-inserted': SMP Session Inserted; 'smp-removed': SMP Session Removed; 'smp-reused': SMP Session Reused; 'nat-pool-standby': New Session NAT Pool Standby; 'smp-deleted': New Session SMP Already Deleted; 'control-closed': New Session Closed; 'data-session-exists': New Session Already Exists; 'data-session-creation-failure': New Data Session Creation Failure; 'rtp-reversed': RTP Reverse Creation; 'rtcp-reversed': RTCP Reverse Creation; 'cross-cpu-sent': Cross CPU Sent; 'cross-cpu-rcv': Cross CPU Received; 'cross-cpu-no-session': Cross CPU No Session Found; 'cross-cpu-created': Cross CPU Creation;

'cross-cpu-rcv-failure': Cross CPU Receive Failure; 'data-free-smp-retry-lookup': Data Session Free SMP Retry Lookup; 'data-free-smp-not-found': Data Session Free SMP Not Found; 'ha-streams-sent': HA Streams Sent; 'ha-streams-rcv': HA Streams Received; 'ha-stream-incompatible': HA Incompatible Streams Received; 'ha-stream-exists': HA Stream Already Exists; 'ha-port-allocation-failure': HA Stream Port Allocation Failure; 'ha-data-session-sent': HA Data Session Sent; 'ha-data-session-rcv': HA Data Session Received; 'ha-data-no-smp': HA Data Session SMP Not Found; 'ha-control-closed': HA New Data Control Session Closed; 'ha-data-exists': HA New Data Session Already Exists; 'ha-extension-failure': HA Conn Extension Failure; 'ha-stream-smp-reused': HA SMP Session Reused; 'ha-stream-smp-acquire-failure': HA SMP Session Acquire Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, streams-created, streams-freed, stream-creation-failure, ports-allocated, ports-freed, port-allocation-failure, unknown-client-port-from-server, data-session-created, data-session-freed, no-session-mem, ha-sent, ha-rcv, smp-inserted, smp-removed, smp-reused, nat-pool-standby, smp-deleted, control-closed, data-session-exists, data-session-creation-failure, rtp-reversed, rtcp-reversed, cross-cpu-sent, cross-cpu-rcv, cross-cpu-no-session, cross-cpu-created, cross-cpu-rcv-failure, data-free-smp-retry-lookup, data-free-smp-not-found, ha-streams-sent, ha-streams-rcv, ha-stream-incompatible, ha-stream-exists, ha-port-allocation-failure, ha-data-session-sent, ha-data-session-rcv, ha-data-no-smp, ha-control-closed, ha-data-exists, ha-extension-failure, ha-stream-smp-reused, ha-stream-smp-acquire-failure, smp-app-type-mismatch

lsn_alg_h323

Specification	Value
Type	*object*

h323-value

Description 'enable': Enable H323 ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_alg_h323_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'h225ras-message': H323 H225 RAS Message; 'h225cs-message': H323 H225 Call Signaling Message; 'h245ctl-message': H323 H245 Media Control Message; 'h245-tunneled': H323 H245 Tunnelled Message; 'fast-start': H323 FastStart; 'parse-error': Message Parse Error; 'message-cross-multi-packets': H323 Message Cross Multiple Packets; 'conn-ext-creation-failure': H323 Packet Rewrite Failure; 'rewrite-failure': H323 Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'h245-dynamic-addr-exceed': H323 H245 Dynamic Address Exceed;

Type: string

Supported Values: all, h225ras-message, h225cs-message, h245ctl-message, h245-tunneled, fast-start, parse-error, message-cross-multi-packets, conn-ext-creation-failure, rewrite-failure, tcp-out-of-order-drop, h245-dynamic-addr-exceed

lsn_alg_rtp

Specification	Value
Type	*object*

rtp-stun-timeout

Description RTP/RTCP STUN timeout (default: 5 minutes)}

Type: number

Range: 2-10

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_alg_dns

Specification	Value
Type	*object*

dns-value

Description 'disable': Disable DNS ALG for LSN;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_alg_tftp

Specification	Value
Type	*object*

sampling-enable

Type: List

tftp-value

Description 'enable': Enable TFTP ALG for LSN;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_alg_tftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions Created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

lsn_alg_mgcp

Specification	Value
Type	*object*

mgcp-value

Description 'enable': Enable MGCP ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_alg_mgcp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auep': MGCP AUEP; 'aucx': MGCP AUCX; 'crcx': MGCP CRCX; 'dlcx': MGCP DLCX; 'epcf': MGCP EPCF; 'mdcx': MGCP MDCX; 'ntfy': MGCP NTFY; 'rqnt': MGCP RQNT; 'rsip': MGCP RSIP; 'parse-error': MGCP Message Parse Error; 'conn-ext-creation-failure': MGCP Create Connection Extension Failure; 'third-party-sdp': MGCP Third-Party SDP; 'sdp-process-candidate-failure': MGCP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': MGCP Operate SDP Failure; 'sdp-alloc-port-map-success': MGCP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': MGCP Alloc SDP Port Map Failure; 'modify-failure': MGCP Message Modify Failure; 'rewrite-failure': MGCP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop;

Type: string

Supported Values: all, auep, aucx, crcx, dlcx, epcf, mdcx, ntfy, rqnt, rsip, parse-error, conn-ext-creation-failure, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop

lsn_inside

Specification	Value
Type	*object*

source

Description: source is a **JSON Block**. Please see below for *lsn_inside_source*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/inside/source*

lsn_inside_source

Specification	Value
Type	*object*

class-list

Description Class List (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_global

Specification	Value
Type	*object*

attempt-port-preservation

Description 'disable': Don't attempt port preservation for NAT allocation;

Type: string

Supported Values: disable

enhanced-user-tracking

Description Enable enhanced user tracking and visibility (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

hairpinning

Description 'filter-none': Allow self-hairpinning (default). Warning: Only applies to UDP. TCP will use filter-self-ip-port; 'filter-self-ip': Block hairpinning to the user's own IP; 'filter-self-ip-port': Block hairpinning to the user's same IP and port combination;

Type: string

Supported Values: filter-none, filter-self-ip, filter-self-ip-port

Default: filter-none

half-close-timeout

Description Set LSN Half close timeout (Half close timeout in seconds (default not set))

Type: number

Range: 2-3000

icmp

Description: icmp is a **JSON Block**. Please see below for *lsn_global_icmp*

Type: Object

inbound-refresh

Description 'enable': Enable NAT Inbound Refresh Behavior; 'disable': Disable NAT Inbound Refresh Behavior;

Type: string

Supported Values: enable, disable

Default: enable

inbound-refresh-full-cone

Description 'enable': Enable NAT full cone refresh for inbound flows; 'disable': Disable NAT full cone refresh for inbound flows;

Type: string

Supported Values: enable, disable

Default: enable

ip-selection

Description 'random': Random (long-run uniformly distributed) NAT IP selection (default); 'round-robin': Round-robin; 'least-used-strict': Fewest NAT ports used; 'least-udp-used-strict': Fewest UDP NAT ports used; 'least-tcp-used-strict': Fewest TCP NAT ports used; 'least-reserved-strict': Fewest NAT ports reserved; 'least-udp-reserved-strict': Fewest UDP NAT ports reserved; 'least-tcp-reserved-strict': Fewest TCP NAT ports reserved; 'least-users-strict': Fewest number of users;

Type: string

Supported Values: random, round-robin, least-used-strict, least-udp-used-strict, least-tcp-used-strict, least-reserved-strict, least-udp-reserved-strict, least-tcp-reserved-strict, least-users-strict

Default: random

logging

Description: logging is a **JSON Block**. Please see below for *lsn_global_logging*

Type: Object

port-batching

Description: port-batching is a **JSON Block**. Please see below for *lsn_global_port-batching*

Type: Object

sampling-enable

Type: List

strictly-sticky-nat

Description Strictly adheres to sticky-nat (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-timeout

Description Set LSN SYN timeout (SYN idle-timeout in seconds (default: 4 seconds))

Type: number

Range: 2-30

Default: 4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_global_icmp

Specification	Value
Type	*object*

send-on-port-unavailable

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered; 'disable': Disable ICMP port unavailable message (default);

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: disable

send-on-user-quota-exceeded

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered (default); 'disable': Disable ICMP quota exceeded message;

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: admin-filtered

lsn_global_logging

Specification	Value
Type	*object*

default-template

Description Bind the default NAT logging template for LSN (Bind a NAT logging template)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/logging*

partition-name

Description Select partition name for logging

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

Mutual Exclusion: partition-name and shared are mutually exclusive

Reference Object: */axapi/v3/partition*

pool

Type: List

shared

Description Select shared partition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: shared and partition-name are mutually exclusive

lsn_global_logging_pool

Specification	Value
Type	*list*
Block object keys	

pool-name

Description NAT pool

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/nat/pool*

template

Description Bind a NAT logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/logging*

lsn_global_port-batching

Specification	Value
Type	*object*

size

Description '1': Allocate 1 port at a time (default); '8': Allocate 8 ports at a time; '16': Allocate 16 ports at a time; '32': Allocate 32 ports at a time; '64': Allocate 64 ports at a time; '128': Allocate 128 ports at a time; '256': Allocate 256 ports at a time; '512': Allocate 512 ports at a time;

Type: string

Supported Values: 1, 8, 16, 32, 64, 128, 256, 512

Default: 1

tcp-time-wait-interval

Description Minutes before TCP NAT ports can be reused (default: 2)

Type: number

Range: 0-10

Default: 2

lsn_global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_tcp_allocated': Total TCP Ports Allocated; 'total_tcp_freed': Total TCP Ports Freed; 'total_udp_allocated': Total UDP Ports Allocated; 'total_udp_freed': Total UDP Ports Freed; 'total_icmp_allocated': Total ICMP Ports Allocated; 'total_icmp_freed': Total ICMP Ports Freed; 'data_session_created': Data Session Created; 'data_session_freed': Data Session Freed; 'user_quota_created': User-Quota Created; 'user_quota_put_in_del_q': User-Quota Freed; 'user_quota_failure': User-Quota Creation Failed; 'nat_port_unavailable_tcp': TCP NAT Port Unavailable; 'nat_port_unavailable_udp': UDP NAT Port Unavailable; 'nat_port_unavailable_icmp': ICMP NAT Port Unavailable; 'new_user_resource_unavailable': New User NAT Resource Unavailable; 'tcp_user_quota_exceeded': TCP User-Quota Exceeded; 'udp_user_quota_exceeded': UDP User-Quota Exceeded; 'icmp_user_quota_exceeded': ICMP User-Quota Exceeded; 'extended_quota_matched': Extended User-Quota Matched; 'extended_quota_exceeded': Extended User-Quota Exceeded; 'data_sesn_user_quota_exceeded': Data Session User-Quota Exceeded; 'data_sesn_rate_user_quota_exceeded': Conn Rate User-Quota Exceeded; 'tcp_fullcone_created': TCP Full-cone Session Created; 'tcp_fullcone_freed': TCP Full-cone Session Freed; 'udp_fullcone_created': UDP Full-cone Session Created; 'udp_fullcone_freed': UDP Full-cone Session Freed; 'fullcone_failure': Full-cone Session Creation Failed; 'hairpin': Hairpin Session Created; 'fullcone_self_hairpinning_drop': Self-Hairpinning Drop; 'endpoint_indep_map_match': Endpoint-Independent Mapping Matched; 'endpoint_indep_filter_match': Endpoint-Independent Filtering Matched; 'inbound_filtered': Endpoint-Dependent Filtering Drop; 'eif_limit_exceeded': Endpoint-Independent Filtering Inbound Limit Exceeded; 'total_tcp_overloaded': TCP Port Overloaded; 'total_udp_overloaded': UDP Port Overloaded; 'port_overloading_smp_inserted_tcp': TCP Port Overloading Session Created; 'port_overloading_smp_inserted_udp': UDP Port Overloading Session Created; 'port_overloading_smp_free_tcp': TCP Port Overloading Session Freed; 'port_overloading_smp_free_udp': UDP Port Overloading Session Freed; 'nat_pool_unusable': NAT Pool Unusable; 'ha_nat_pool_unusable': HA NAT Pool Unusable; 'ha_nat_pool_batch_type_mismatch': HA NAT Pool Batch Type Mismatch; 'no_radius_profile_match': No RADIUS Profile Match; 'nat_ip_max_tcp_ports_allocated': NAT IP TCP Max Ports Allocated; 'nat_ip_max_udp_ports_allocated': NAT IP UDP Max Ports Allocated; 'no_class_list_match': No Class-List Match; 'lid_drop': LSN LID Drop; 'lid_pass_through': LSN LID Pass-through; 'fullcone_in_del_q': Full-cone session found in delete queue; 'fullcone_retry_lookup': Full-cone session retry

look-up; 'fullcone_not_found': Full-cone session not found; 'nat_port_double_free': NAT Port Double Free; 'nat_port_chunk_freed_from_cpu': NAT Port Chunks Freed From CPU; 'nat_port_freed_from_diff_cpu': NAT Port Freed On Different CPU; 'nat_pool_deleted': NAT Pool Deleted; 'nat_esp_ip_conflicts': LSN NAT ESP IP Conflicts; 'nat_esp_no_control_sesn': LSN NAT ESP No Control Session; 'esp_user_quota_exceeded': ESP User-Quota exceeded; 'udp_alg_user_quota_exceeded': UDP ALG User-Quota exceeded; 'gre_user_quota_exceeded': GRE User-Quota exceeded; 'ha_classlist_mismatch': HA Class-list Mismatch; 'ha_user_quota_mismatch': HA User-Quota Mismatch; 'ha_fullcone_mismatch': HA Full-cone Mismatch; 'ha_port_mismatch': HA Port Mismatch; 'ha_dnat_mismatch': HA Destination NAT Config Mismatch; 'ha_nat_port_unavailable': HA NAT Port Unavailable; 'ha_unknown_nat_ip': HA Unknown NAT IP; 'ha_fullcone_failure': HA Full-cone Session Failure; 'ha_fullcone_create_race_failure': HA Full-cone Create Race Failure; 'ha_endpoint_indep_map_match': HA Endpoint-independent Matching; 'standby_class_list_drop': HA Standby Class-List drop; 'bad_tuple_nat_ip': Bad NAT IP from tuple; 'bad_smp_tuple_nat_ip': Bad NAT IP from SMP tuple; 'fullcone_inbound_nat_pool_mismatch': Full-cone Session NAT Pool Mismatch; 'fullcone_overflow_eim': Full-cone Session EIM Overflow; 'fullcone_overflow_eif': Full-cone Session EIF Overflow; 'cross_cpu_helper_created': Cross CPU Session Helper Created; 'cross_cpu_sent': Cross CPU Helper Packets Sent; 'cross_cpu_rcv': Cross CPU Helper Packets Received; 'cross_cpu_bad_l3': Cross CPU Unsupported L3; 'cross_cpu_bad_l4': Cross CPU Unsupported L4; 'cross_cpu_no_session': Cross CPU No Session Found; 'cross_cpu_helper_free': Cross CPU Helper Free; 'cross_cpu_helper_free_retry_lookup': Cross CPU Helper Free Retry Lookup; 'cross_cpu_helper_free_not_found': Cross CPU Helper Free Not Found; 'cross_cpu_helper_deleted': Cross CPU Helper Deleted; 'cross_cpu_helper_cpu_mismatch': Cross CPU Helper CPU Mismatch; 'cross_cpu_helper_nat_pool_standby': Cross CPU Helper NAT Pool Standby; 'cross_cpu_helper_double_add': Cross CPU Helper Double Add Attempt; 'mtu_exceeded': Packet Exceeded MTU; 'frag': Fragmented Packets; 'dslite_tunnel_frag': IPv4 Fragment DS-Lite Packet; 'sixrd_tunnel_frag': IPv6 Fragment IPv6-in-IPv4 Packet; 'frag_icmp': ICMP Packet Too Big Sent; 'frag_tunnel_icmp': DS-Lite ICMP Packet Too Big Sent; 'quota_ext_mem_allocated': Quota Extension Memory Allocated; 'quota_ext_mem_alloc_failure': Quota Extension Out of Memory; 'quota_ext_mem_freed': Quota Extension Memory Freed; 'quota_ext_put_in_del_q': Quota Extension Put in Delete Queue; 'port_batch_num_mismatch': Specific Port Batch Num Ports Mismatch; 'port_batch_interval_mismatch': Specific Port Batch Port Interval Mismatch; 'port_pair_alloc_bad_math': Port Pair Alloc Bad Math; 'free_port_from_quota_no_container': Free Port from Quota No Container; 'free_port_from_quota_no_port_info': Free Port From Quota No Port Info; 'static_nat_cross_cpu_helper_created': Cross CPU Helper Created for Static NAT; 'static_nat_cross_cpu_helper_deleted': Cross CPU Helper Deleted for Static NAT; 'static_nat_cross_cpu_helper_standby': Cross CPU Helper Static NAT Standby; 'static_nat_cross_cpu_helper_cpu_mismatch': Static NAT Cross CPU Helper CPU Mismatch; 'static_nat_cross_cpu_sent': Static NAT Cross CPU Helper Sent; 'static_nat_cross_cpu_rcv': Static NAT Cross CPU Helper Packets Received; 'static_nat_cross_cpu_bad_l3': Static NAT Cross CPU Unsupported L3; 'static_nat_cross_cpu_bad_l4': Static NAT Cross CPU Unsupported L4; 'static_nat_cross_cpu_no_session': Static NAT Cross CPU No Session Found; 'static_nat_cross_cpu_helper_free': Static NAT Cross CPU Helper Free; 'static_nat_cross_cpu_helper_free_retry_lookup': Static NAT Cross CPU Helper Free Retry Lookup; 'static_nat_cross_cpu_helper_free_not_found': Static NAT Cross CPU Helper Free Not Found; 'static_nat_ha_map_mismatch': Static NAT Mapping Mismatch on HA Standby; 'ip_slb_cross_cpu_sent': IP SLB Cross CPU Packets Sent; 'fullcone_force_deleted': Full-cone Session Force Deleted; 'user_quota_mem_allocated': User-Quota Memory Allocated; 'user_quota_mem_freed': User-Quota Memory Freed; 'user_quota_created_shadow': Total User-Quota Created;

'quota_marked_deleted': User-Quota Marked Deleted; 'quota_delete_not_in_bucket': User-Quota Delete Not In Bucket; 'user_quota_put_in_del_q_shadow': Total User-Quota Put In Del Q; 'tcp_out_of_state_rst_sent': Total Out of State TCP RST sent; 'tcp_out_of_state_rst_dropped': Total Out of State TCP RST dropped; 'icmp_out_of_state_uqe_admin_filtered_sent': Total User Quota Exceeded ICMP admin filtered sent; 'icmp_out_of_state_uqe_host_unreachable_sent': Total User Quota Exceeded ICMP host unreachable sent; 'icmp_out_of_state_uqe_dropped': Total User Queue Exceeded ICMP notification dropped;

Type: string

Supported Values: all, total_tcp_allocated, total_tcp_freed, total_udp_allocated, total_udp_freed, total_icmp_allocated, total_icmp_freed, data_session_created, data_session_freed, user_quota_created, user_quota_put_in_del_q, user_quota_failure, nat_port_unavailable_tcp, nat_port_unavailable_udp, nat_port_unavailable_icmp, new_user_resource_unavailable, tcp_user_quota_exceeded, udp_user_quota_exceeded, icmp_user_quota_exceeded, extended_quota_matched, extended_quota_exceeded, data_sesn_user_quota_exceeded, data_sesn_rate_user_quota_exceeded, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_failure, hairpin, fullcone_self_hairpinning_drop, endpoint_indep_map_match, endpoint_indep_filter_match, inbound_filtered, eif_limit_exceeded, total_tcp_overloaded, total_udp_overloaded, port_overloading_smp_inserted_tcp, port_overloading_smp_inserted_udp, port_overloading_smp_free_tcp, port_overloading_smp_free_udp, nat_pool_unusable, ha_nat_pool_unusable, ha_nat_pool_batch_type_mismatch, no_radius_profile_match, nat_ip_max_tcp_ports_allocated, nat_ip_max_udp_ports_allocated, no_class_list_match, lid_drop, lid_pass_through, fullcone_in_del_q, fullcone_retry_lookup, fullcone_not_found, nat_port_double_free, nat_port_chunk_freed_from_cpu, nat_port_freed_from_diff_cpu, nat_pool_deleted, nat_esp_ip_conflicts, nat_esp_no_control_sesn, esp_user_quota_exceeded, udp_alg_user_quota_exceeded, gre_user_quota_exceeded, ha_classlist_mismatch, ha_user_quota_mismatch, ha_fullcone_mismatch, ha_port_mismatch, ha_dnat_mismatch, ha_nat_port_unavailable, ha_unknown_nat_ip, ha_fullcone_failure, ha_fullcone_create_race_failure, ha_endpoint_indep_map_match, standby_class_list_drop, bad_tuple_nat_ip, bad_smp_tuple_nat_ip, fullcone_inbound_nat_pool_mismatch, fullcone_overflow_eim, fullcone_overflow_eif, cross_cpu_helper_created, cross_cpu_sent, cross_cpu_rcv, cross_cpu_bad_l3, cross_cpu_bad_l4, cross_cpu_no_session, cross_cpu_helper_free, cross_cpu_helper_free_retry_lookup, cross_cpu_helper_free_not_found, cross_cpu_helper_deleted, cross_cpu_helper_cpu_mismatch, cross_cpu_helper_nat_pool_standby, cross_cpu_helper_double_add, mtu_exceeded, frag, dslite_tunnel_frag, sixrd_tunnel_frag, frag_icmp, frag_tunnel_icmp, quota_ext_mem_allocated, quota_ext_mem_alloc_failure, quota_ext_mem_freed, quota_ext_put_in_del_q, port_batch_num_mismatch, port_batch_interval_mismatch, port_pair_alloc_bad_math, free_port_from_quota_no_container, free_port_from_quota_no_port_info, static_nat_cross_cpu_helper_created, static_nat_cross_cpu_helper_deleted, static_nat_cross_cpu_helper_standby, static_nat_cross_cpu_helper_cpu_mismatch, static_nat_cross_cpu_sent, static_nat_cross_cpu_rcv, static_nat_cross_cpu_bad_l3, static_nat_cross_cpu_bad_l4, static_nat_cross_cpu_no_session, static_nat_cross_cpu_helper_free, static_nat_cross_cpu_helper_free_retry_lookup, static_nat_cross_cpu_helper_free_not_found, static_nat_ha_map_mismatch, ip_slb_cross_cpu_sent, fullcone_force_deleted, user_quota_mem_allocated, user_quota_mem_freed, user_quota_created_shadow, quota_marked_deleted, quota_delete_not_in_bucket, user_quota_put_in_del_q_shadow, tcp_out_of_state_rst_sent, tcp_out_of_state_rst_dropped, icmp_out_of_state_uqe_admin_filtered_sent, icmp_out_of_state_uqe_host_unreachable_sent, icmp_out_of_state_uqe_dropped

counters2

Description 'user_quota_not_found': User-Quota Not Found; 'tcp_fullcone_created_shadow': Total TCP Full-cone sessions created; 'tcp_fullcone_freed_shadow': Total TCP Full-cone sessions freed; 'udp_fullcone_created_shadow': Total UDP Full-cone sessions created; 'udp_fullcone_freed_shadow': Total UDP Full-cone sessions freed; 'udp_alg_fullcone_created': Total UDP ALG Full-cone sessions created; 'udp_alg_fullcone_freed': Total UDP ALG Full-cone sessions freed; 'fullcone_created': Total Full-cone sessions created; 'fullcone_freed': Total Full-cone sessions freed; 'data_session_created_shadow': Total Data Sessions Created; 'data_session_freed_shadow': Total Data Sessions Freed; 'data_session_user_quota_mismatch': Data Session Counter Per User Mismatch; 'extended_quota_mismatched': Extended User-Quota Mismatched; 'nat_port_unavailable_other': Other NAT Port Unavailable; 'nat_port_unavailable': Total NAT Port Unavailable; 'new_user_resource_unavailable_tcp': TCP New User NAT Resource Unavailable; 'new_user_resource_unavailable_udp': UDP New User NAT Resource Unavailable; 'new_user_resource_unavailable_icmp': ICMP New User NAT Resource Unavailable; 'new_user_resource_unavailable_other': Other New User NAT Resource Unavailable; 'total_tcp_allocated_shadow': Total TCP Ports Allocated; 'total_tcp_freed_shadow': Total TCP Ports Freed; 'total_udp_allocated_shadow': Total UDP Ports Allocated; 'total_udp_freed_shadow': Total UDP Ports Freed; 'total_icmp_allocated_shadow': Total ICMP Ports Allocated; 'total_icmp_freed_shadow': Total ICMP Ports Freed; 'udp_alg_no_quota': UDP ALG User-Quota Not Found; 'udp_alg_eim_mismatch': UDP ALG Endpoint-Independent Mapping Mismatch; 'udp_alg_no_nat_ip': UDP ALG User-Quota Unknown NAT IP; 'udp_alg_alloc_failure': UDP ALG Port Allocation Failure; 'sip_alg_no_quota': SIP ALG User-Quota Not Found; 'sip_alg_quota_inc_failure': SIP ALG User-Quota Exceeded; 'sip_alg_no_nat_ip': SIP ALG Unknown NAT IP; 'sip_alg_reuse_contact_fullcone': SIP ALG Reuse Contact Full-cone Session; 'sip_alg_contact_fullcone_mismatch': SIP ALG Contact Full-cone Session Mismatch; 'sip_alg_alloc_contact_port_failure': SIP ALG Alloc Contact NAT Port Failure; 'sip_alg_create_contact_fullcone_failure': SIP ALG Create Contact Full-cone Session Failure; 'sip_alg_release_contact_port_failure': SIP ALG Release Contact NAT Port Failure; 'sip_alg_single_rtp_fullcone': SIP ALG Single RTP Full-cone Found; 'sip_alg_single_rtcp_fullcone': SIP ALG Single RTCP Full-cone Found; 'sip_alg_rtcp_fullcone_mismatch': SIP ALG RTCP Full-cone NAT Port Mismatch; 'sip_alg_reuse_rtp_rtcp_fullcone': SIP ALG Reuse RTP/RTCP Full-cone Session; 'sip_alg_alloc_rtp_rtcp_port_failure': SIP ALG Alloc RTP/RTCP NAT Ports Failure; 'sip_alg_alloc_single_port_failure': SIP ALG Alloc Single RTP or RTCP NAT Port Failure; 'sip_alg_create_single_fullcone_failure': SIP ALG Create Single RTP or RTCP Full-cone Session Failure; 'sip_alg_create_rtp_fullcone_failure': SIP ALG Create RTP Full-cone Session Failure; 'sip_alg_create_rtcp_fullcone_failure': SIP ALG Create RTCP Full-cone Session Failure; 'sip_alg_port_pair_alloc_from_consecutive': SIP ALG Port Pair Allocated From Consecutive; 'sip_alg_port_pair_alloc_from_partition': SIP ALG Port Pair Allocated From Partition; 'sip_alg_port_pair_alloc_from_pool_port_batch': SIP ALG Port Pair Allocated From Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_consecutive': SIP ALG Port Pair Allocated From Quota Consecutive; 'sip_alg_port_pair_alloc_from_quota_partition': SIP ALG Port Pair Allocated From Quota Partition; 'sip_alg_port_pair_alloc_from_quota_partition_error': SIP ALG Port Pair Allocated From Quota Partition Error; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch': SIP ALG Port Pair Allocated From Quota Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag': SIP ALG Port Pair Allocated From Quota Port Batch Version 2 with Frag Free Ports; 'h323_alg_no_quota': H323 ALG User-Quota Not Found; 'h323_alg_quota_inc_failure': H323 ALG User-Quota Exceeded; 'h323_alg_no_nat_ip': H323 ALG Unknown NAT IP; 'h323_alg_reuse_fullcone': H323 ALG Reuse Full-cone Session; 'h323_alg_fullcone_mismatch': H323 ALG Full-cone Ses-

sion Mismatch; 'h323_alg_alloc_port_failure': H323 ALG Alloc NAT Port Failure; 'h323_alg_create_fullcone_failure': H323 ALG Create Full-cone Session Failure; 'h323_alg_release_port_failure': H323 ALG Release NAT Port Failure; 'h323_alg_single_rtp_fullcone': H323 ALG Single RTP Full-cone Found; 'h323_alg_single_rtcp_fullcone': H323 ALG Single RTCP Full-cone Found; 'h323_alg_rtcp_fullcone_mismatch': H323 ALG RTCP Full-cone NAT Port Mismatch; 'h323_alg_reuse_rtp_rtcp_fullcone': H323 ALG Reuse RTP/RTCP Full-cone Session; 'h323_alg_alloc_rtp_rtcp_port_failure': H323 ALG Alloc RTP/RTCP NAT Ports Failure; 'h323_alg_alloc_single_port_failure': H323 ALG Alloc Single RTP or RTCP NAT Port Failure; 'h323_alg_create_single_fullcone_failure': H323 ALG Create Single RTP or RTCP Full-cone Session Failure; 'h323_alg_create_rtp_fullcone_failure': H323 ALG Create RTP Full-cone Session Failure; 'h323_alg_create_rtcp_fullcone_failure': H323 ALG Create RTCP Full-cone Session Failure; 'h323_alg_port_pair_alloc_from_consecutive': H323 ALG Port Pair Allocated From Consecutive; 'h323_alg_port_pair_alloc_from_partition': H323 ALG Port Pair Allocated From Partition; 'h323_alg_port_pair_alloc_from_pool_port_batch': H323 ALG Port Pair Allocated From Pool Port Batch; 'h323_alg_port_pair_alloc_from_quota_consecutive': H323 ALG Port Pair Allocated From Quota Consecutive; 'h323_alg_port_pair_alloc_from_quota_partition': H323 ALG Port Pair Allocated From Quota Partition; 'h323_alg_port_pair_alloc_from_quota_partition_error': H323 ALG Port Pair Allocated From Quota Partition Error; 'h323_alg_port_pair_alloc_from_quota_pool_port_batch': H323 ALG Port Pair Allocated From Quota Pool Port Batch; 'port_batch_quota_extension_alloc_failure': Port Batch Extension Alloc Failure (No memory); 'port_batch_free_quota_not_found': Port Batch Quota Not Found on Free; 'port_batch_free_port_not_found': Port Batch Port Not Found on Free; 'port_batch_free_wrong_partition': Port Batch Free Wrong Partition; 'radius_query_quota_ext_alloc_failure': RADIUS Query Container Alloc (No Memoty); 'radius_query_quota_ext_alloc_race_free': RADIUS Query Container Alloc Race Free; 'quota_extension_added': Quota Extension Added to Quota; 'quota_extension_removed': Quota Extension Removed from Quota; 'quota_extension_remove_not_found': Quota Extension Not Found on Remove; 'ha_sync_port_batch_sent': HA Port Batch Extension Sync Sent; 'ha_sync_port_batch_rcv': HA Port Batch Extension Sync Received; 'ha_send_port_batch_not_found': HA Port Batch Not Found on Sync Send; 'ha_rcv_port_not_in_port_batch': HA Port Not in Port Batch on Sync Rcv; 'bad_port_to_free': Freeing Bad Port; 'consecutive_port_free': Port Freed from Consecutive Pool; 'partition_port_free': Port Freed from Partition; 'pool_port_batch_port_free': Port Freed from Pool Port Batch; 'port_allocated_from_quota_consecutive': Port Allocated from Quota Consecutive; 'port_allocated_from_quota_partition': Port Allocated from Quota Partition; 'port_allocated_from_quota_pool_port_batch': Port Allocated from Quota Pool Port Batch; 'port_freed_from_quota_consecutive': Port Freed from Quota Consecutive; 'port_freed_from_quota_partition': Port Freed from Quota Partition; 'port_freed_from_quota_pool_port_batch': Port Freed from Quota Pool Port Batch; 'port_batch_allocated_to_quota': Port Batch Allocated to Quota; 'port_batch_freed_from_quota': Port Batch Freed From Quota; 'specific_port_allocated_from_quota_consecutive': Specific Port Allocated from Quota Consecutive;

Type: string

Supported Values: user_quota_not_found, tcp_fullcone_created_shadow, tcp_fullcone_freed_shadow, udp_fullcone_created_shadow, udp_fullcone_freed_shadow, udp_alg_fullcone_created, udp_alg_fullcone_freed, fullcone_created, fullcone_freed, data_session_created_shadow, data_session_freed_shadow, data_session_user_quota_mismatch, extended_quota_mismatched, nat_port_unavailable_other, nat_port_unavailable, new_user_resource_unavailable_tcp,

new_user_resource_unavailable_udp, new_user_resource_unavailable_icmp, new_user_resource_unavailable_other, total_tcp_allocated_shadow, total_tcp_freed_shadow, total_udp_allocated_shadow, total_udp_freed_shadow, total_icmp_allocated_shadow, total_icmp_freed_shadow, udp_alg_no_quota, udp_alg_eim_mismatch, udp_alg_no_nat_ip, udp_alg_alloc_failure, sip_alg_no_quota, sip_alg_quota_inc_failure, sip_alg_no_nat_ip, sip_alg_reuse_contact_fullcone, sip_alg_contact_fullcone_mismatch, sip_alg_alloc_contact_port_failure, sip_alg_create_contact_fullcone_failure, sip_alg_release_contact_port_failure, sip_alg_single_rtp_fullcone, sip_alg_single_rtcp_fullcone, sip_alg_rtcp_fullcone_mismatch, sip_alg_reuse_rtp_rtcp_fullcone, sip_alg_alloc_rtp_rtcp_port_failure, sip_alg_alloc_single_port_failure, sip_alg_create_single_fullcone_failure, sip_alg_create_rtp_fullcone_failure, sip_alg_create_rtcp_fullcone_failure, sip_alg_port_pair_alloc_from_consecutive, sip_alg_port_pair_alloc_from_partition, sip_alg_port_pair_alloc_from_pool_port_batch, sip_alg_port_pair_alloc_from_quota_consecutive, sip_alg_port_pair_alloc_from_quota_partition, sip_alg_port_pair_alloc_from_quota_partition_error, sip_alg_port_pair_alloc_from_quota_pool_port_batch, sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag, h323_alg_no_quota, h323_alg_quota_inc_failure, h323_alg_no_nat_ip, h323_alg_reuse_fullcone, h323_alg_fullcone_mismatch, h323_alg_alloc_port_failure, h323_alg_create_fullcone_failure, h323_alg_release_port_failure, h323_alg_single_rtp_fullcone, h323_alg_single_rtcp_fullcone, h323_alg_rtcp_fullcone_mismatch, h323_alg_reuse_rtp_rtcp_fullcone, h323_alg_alloc_rtp_rtcp_port_failure, h323_alg_alloc_single_port_failure, h323_alg_create_single_fullcone_failure, h323_alg_create_rtp_fullcone_failure, h323_alg_create_rtcp_fullcone_failure, h323_alg_port_pair_alloc_from_consecutive, h323_alg_port_pair_alloc_from_partition, h323_alg_port_pair_alloc_from_pool_port_batch, h323_alg_port_pair_alloc_from_quota_consecutive, h323_alg_port_pair_alloc_from_quota_partition, h323_alg_port_pair_alloc_from_quota_partition_error, h323_alg_port_pair_alloc_from_quota_pool_port_batch, port_batch_quota_extension_alloc_failure, port_batch_free_quota_not_found, port_batch_free_port_not_found, port_batch_free_wrong_partition, radius_query_quota_ext_alloc_failure, radius_query_quota_ext_alloc_race_free, quota_extension_added, quota_extension_removed, quota_extension_remove_not_found, ha_sync_port_batch_sent, ha_sync_port_batch_rcv, ha_send_port_batch_not_found, ha_rcv_port_not_in_port_batch, bad_port_to_free, consecutive_port_free, partition_port_free, pool_port_batch_port_free, port_allocated_from_quota_consecutive, port_allocated_from_quota_partition, port_allocated_from_quota_pool_port_batch, port_freed_from_quota_consecutive, port_freed_from_quota_partition, port_freed_from_quota_pool_port_batch, port_batch_allocated_to_quota, port_batch_freed_from_quota, specific_port_allocated_from_quota_consecutive

counters3

Description 'specific_port_allocated_from_quota_partition': Specific Port Allocated from Quota Partition; 'specific_port_allocated_from_quota_pool_port_batch': Specific Port Allocated from Quota Pool Port Batch; 'port_batch_container_alloc_failure': Port Batch Container Alloc Out of Memory; 'port_batch_container_alloc_race_free': Port Batch Container Race Free; 'port_overloading_destination_conflict': Port Overloading Destination Conflict; 'port_overloading_out_of_memory': Port Overloading Out of Memory; 'port_overloading_assign_user': Port Overloading Port Assign User; 'port_overloading_assign_user_port_batch': Port Overloading Port Assign User Port Batch; 'port_overloading_inc': Port Overloading Port Increment; 'port_overloading_dec_on_conflict': Port Overloading Port Decrement on Conflict; 'port_overloading_dec_on_free': Port Overloading Port Decrement on Free; 'port_overloading_free_port_on_conflict': Port Overloading Free Port on Conflict; 'port_overloading_free_port_batch_on_conflict': Port Overloading Free Port Batch on Conflict; 'port_overloading_inc_overflow': Port Overloading Inc Over-

flow; 'port_overloading_attempt_consecutive_ports': Port Overloading on Consecutive Ports; 'port_overloading_attempt_same_partition': Port Overloading on Same Partition; 'port_overloading_attempt_diff_partition': Port Overloading on Different Partition; 'port_overloading_attempt_failed': Port Overloading Attempt Failed; 'port_overloading_conn_free_retry_lookup': Port Overloading Conn Free Retry Lookup; 'port_overloading_conn_free_not_found': Port Overloading Conn Free Not Found; 'port_overloading_smp_mem_allocated': Port Overloading SMP Session Allocated; 'port_overloading_smp_mem_freed': Port Overloading SMP Session Freed; 'port_overloading_smp_inserted': Port Overloading SMP Inserted; 'port_overloading_smp_inserted_tcp_shadow': Total Port Overloading SMP TCP Inserted; 'port_overloading_smp_inserted_udp_shadow': Total Port Overloading SMP UDP Inserted; 'port_overloading_smp_free_tcp_shadow': Total Port Overloading SMP TCP Freed; 'port_overloading_smp_free_udp_shadow': Total Port Overloading SMP UDP Freed; 'port_overloading_smp_put_in_del_q_from_conn': Port Overloading SMP Free From Conn; 'port_overloading_smp_free_dec_failure': Port Overloading SMP Free Dec Failure; 'port_overloading_smp_free_no_quota': Port Overloading SMP Free No Quota; 'port_overloading_smp_free_port': Port Overloading SMP Free Port; 'port_overloading_smp_free_port_from_quota': Port Overloading SMP Free Port From Quota; 'port_overloading_for_no_ports': Port Overloading for No Ports; 'port_overloading_for_no_ports_success': Port Overloading for No Ports Success; 'port_overloading_for_quota_exceeded': Port Overloading for Quota Exceeded; 'port_overloading_for_quota_exceeded_success': Port Overloading for Quota Exceeded Success; 'port_overloading_for_quota_exceeded_race': Port Overloading for Quota Exceeded Race; 'port_overloading_for_quota_exceeded_race_success': Port Overloading for Quota Exceeded Race Success; 'port_overloading_for_new_user': Port Overloading for New User; 'port_overloading_for_new_user_success': Port Overloading for New User Success; 'ha_port_overloading_attempt_failed': HA Port Overloading Attempt Failed; 'ha_port_overloading_for_no_ports': HA Port Overloading for No Ports; 'ha_port_overloading_for_no_ports_success': HA Port Overloading for No Ports Success; 'ha_port_overloading_for_quota_exceeded': HA Port Overloading for Quota Exceeded; 'ha_port_overloading_for_quota_exceeded_success': HA Port Overloading for Quota Exceeded Success; 'ha_port_overloading_for_quota_exceeded_race': HA Port Overloading for Quota Exceeded Race; 'ha_port_overloading_for_quota_exceeded_race_success': HA Port Overloading for Quota Exceeded Race Success; 'ha_port_overloading_for_new_user': HA Port Overloading for New User; 'ha_port_overloading_for_new_user_success': HA Port Overloading for New User Success; 'nat_pool_force_delete': NAT Pool Force Delete; 'quota_ext_too_many': Quota Ext Too Many; 'nat_pool_not_found_on_free': NAT Pool Not Found on Free; 'fullcone_ext_mem_freed': LSN Fullcone Extension Memory Freed; 'fullcone_ext_mem_allocated': LSN Fullcone Extension Memory Allocated; 'fullcone_ext_mem_alloc_failure': LSN Fullcone Extension Memory Allocate Failure; 'fullcone_ext_mem_alloc_init_faulure': LSN Fullcone Extension Initialization Failure; 'fullcone_ext_added': LSN Fullcone Extension Added; 'fullcone_ext_too_many': LSN Fullcone Extension Too Many; 'nat_pool_attempt_adding_multiple_free_batches': Attempt Adding Multiple Free Batches to Quota; 'nat_pool_add_free_batch_failed': Add Batch to Quota Failed; 'mgcp_alg_no_quota': MGCP ALG User-Quota Not Found; 'mgcp_alg_quota_inc_failure': MGCP ALG User-Quota Exceeded; 'mgcp_alg_no_nat_ip': MGCP ALG Unknown NAT IP; 'mgcp_alg_reuse_fullcone': MGCP ALG Reuse Full-cone Session; 'mgcp_alg_fullcone_mismatch': MGCP ALG Full-cone Session Mismatch; 'mgcp_alg_alloc_port_failure': MGCP ALG Alloc NAT Port Failure; 'mgcp_alg_create_fullcone_failure': MGCP ALG Create Full-cone Session Failure; 'mgcp_alg_release_port_failure': MGCP ALG Release NAT Port Failure; 'mgcp_alg_single_rtp_fullcone': MGCP ALG Single RTP Full-cone Found; 'mgcp_alg_single_rtcp_fullcone': MGCP ALG Single RTCP Full-cone Found; 'mgcp_alg_rtcp_fullcone_mismatch': MGCP ALG RTCP Full-cone NAT Port Mis-

match; 'mgcp_alg_reuse_rtp_rtcp_fullcone': MGCP ALG Reuse RTP/RTCP Full-cone Session; 'mgcp_alg_alloc_rtp_rtcp_port_failure': MGCP ALG Alloc RTP/RTCP NAT Ports Failure; 'mgcp_alg_alloc_single_port_failure': MGCP ALG Alloc Single RTP or RTCP NAT Port Failure; 'mgcp_alg_create_single_fullcone_failure': MGCP ALG Create Single RTP or RTCP Full-cone Session Failure; 'mgcp_alg_create_rtp_fullcone_failure': MGCP ALG Create RTP Full-cone Session Failure; 'mgcp_alg_create_rtcp_fullcone_failure': MGCP ALG Create RTCP Full-cone Session Failure; 'mgcp_alg_port_pair_alloc_from_consecutive': MGCP ALG Port Pair Allocated From Consecutive; 'mgcp_alg_port_pair_alloc_from_partition': MGCP ALG Port Pair Allocated From Partition; 'mgcp_alg_port_pair_alloc_from_pool_port_batch': MGCP ALG Port Pair Allocated From Pool Port Batch; 'mgcp_alg_port_pair_alloc_from_quota_consecutive': MGCP ALG Port Pair Allocated From Quota Consecutive; 'mgcp_alg_port_pair_alloc_from_quota_partition': MGCP ALG Port Pair Allocated From Quota Partition; 'mgcp_alg_port_pair_alloc_from_quota_partition_error': MGCP ALG Port Pair Allocated From Quota Partition Error; 'mgcp_alg_port_pair_alloc_from_quota_pool_port_batch': MGCP ALG Port Pair Allocated From Quota Pool Port Batch; 'user_quota_unusable_drop': User-Quota Unusable Drop; 'user_quota_unusable': User-Quota Marked Unusable; 'nat_pool_same_port_batch_udp_failed': Simultaneous Batch Allocation UDP Port Allocation Failed; 'cross_cpu_helper_created_eim': EIM Cross CPU Session Helper Created; 'cross_cpu_helper_created_eif': EIF Cross CPU Session Helper Created; 'cross_cpu_helper_created_udp': UDP Cross CPU Session Helper Created; 'cross_cpu_helper_created_tcp': TCP Cross CPU Session Helper Created; 'cross_cpu_helper_created_icmp': ICMP Cross CPU Session Helper Created; 'cross_cpu_helper_created_ip': IP Cross CPU Session Helper Created; 'cross_cpu_helper_free_not_found_ip': IP Cross CPU Helper Free Not Found; 'cross_cpu_helper_free_not_found_icmp': ICMP Cross CPU Helper Free Not Found; 'cross_cpu_helper_free_not_found_tcp': TCP Cross CPU Helper Free Not Found; 'cross_cpu_helper_free_not_found_udp': UDP Cross CPU Helper Free Not Found; 'adc_port_allocation_failed': ADC Port Allocation Failed; 'adc_port_allocation_ineligible': ADC Port Allocation Not Allowed;

Type: string

Supported Values: specific_port_allocated_from_quota_partition, specific_port_allocated_from_quota_pool_port_batch, port_batch_container_alloc_failure, port_batch_container_alloc_race_free, port_overloading_destination_conflict, port_overloading_out_of_memory, port_overloading_assign_user, port_overloading_assign_user_port_batch, port_overloading_inc, port_overloading_dec_on_conflict, port_overloading_dec_on_free, port_overloading_free_port_on_conflict, port_overloading_free_port_batch_on_conflict, port_overloading_inc_overflow, port_overloading_attempt_consecutive_ports, port_overloading_attempt_same_partition, port_overloading_attempt_diff_partition, port_overloading_attempt_failed, port_overloading_conn_free_retry_lookup, port_overloading_conn_free_not_found, port_overloading_smp_mem_allocated, port_overloading_smp_mem_freed, port_overloading_smp_inserted, port_overloading_smp_inserted_tcp_shadow, port_overloading_smp_inserted_udp_shadow, port_overloading_smp_free_tcp_shadow, port_overloading_smp_free_udp_shadow, port_overloading_smp_put_in_del_q_from_conn, port_overloading_smp_free_dec_failure, port_overloading_smp_free_no_quota, port_overloading_smp_free_port, port_overloading_smp_free_port_from_quota, port_overloading_for_no_ports, port_overloading_for_no_ports_success, port_overloading_for_quota_exceeded, port_overloading_for_quota_exceeded_success, port_overloading_for_quota_exceeded_race, port_overloading_for_quota_exceeded_race_success, port_overloading_for_new_user, port_overloading_for_new_user_success, ha_port_overloading_attempt_failed,

ha_port_overloading_for_no_ports, ha_port_overloading_for_no_ports_success, ha_port_overloading_for_quota_exceeded, ha_port_overloading_for_quota_exceeded_success, ha_port_overloading_for_quota_exceeded_race, ha_port_overloading_for_quota_exceeded_race_success, ha_port_overloading_for_new_user, ha_port_overloading_for_new_user_success, nat_pool_force_delete, quota_ext_too_many, nat_pool_not_found_on_free, fullcone_ext_mem_freed, fullcone_ext_mem_allocated, fullcone_ext_mem_alloc_failure, fullcone_ext_mem_alloc_init_faulure, fullcone_ext_added, fullcone_ext_too_many, nat_pool_attempt_adding_multiple_free_batches, nat_pool_add_free_batch_failed, mgcp_alg_no_quota, mgcp_alg_quota_inc_failure, mgcp_alg_no_nat_ip, mgcp_alg_reuse_fullcone, mgcp_alg_fullcone_mismatch, mgcp_alg_alloc_port_failure, mgcp_alg_create_fullcone_failure, mgcp_alg_release_port_failure, mgcp_alg_single_rtp_fullcone, mgcp_alg_single_rtcp_fullcone, mgcp_alg_rtcp_fullcone_mismatch, mgcp_alg_reuse_rtp_rtcp_fullcone, mgcp_alg_alloc_rtp_rtcp_port_failure, mgcp_alg_alloc_single_port_failure, mgcp_alg_create_single_fullcone_failure, mgcp_alg_create_rtp_fullcone_failure, mgcp_alg_create_rtcp_fullcone_failure, mgcp_alg_port_pair_alloc_from_consecutive, mgcp_alg_port_pair_alloc_from_partition, mgcp_alg_port_pair_alloc_from_pool_port_batch, mgcp_alg_port_pair_alloc_from_quota_consecutive, mgcp_alg_port_pair_alloc_from_quota_partition, mgcp_alg_port_pair_alloc_from_quota_partition_error, mgcp_alg_port_pair_alloc_from_quota_pool_port_batch, user_quota_unusable_drop, user_quota_unusable, nat_pool_same_port_batch_udp_failed, cross_cpu_helper_created_eim, cross_cpu_helper_created_eif, cross_cpu_helper_created_udp, cross_cpu_helper_created_tcp, cross_cpu_helper_created_icmp, cross_cpu_helper_created_ip, cross_cpu_helper_free_not_found_ip, cross_cpu_helper_free_not_found_icmp, cross_cpu_helper_free_not_found_tcp, cross_cpu_helper_free_not_found_udp, adc_port_allocation_failed, adc_port_allocation_ineligible

counters4

Description 'acl_http_domain_node_exceeded': ACL HTTP Domain Node Exceeded; 'fwd_ingress_packets_tcp': Forward Ingress Packets TCP; 'fwd_egress_packets_tcp': Forward Egress Packets TCP; 'rev_ingress_packets_tcp': Reverse Ingress Packets TCP; 'rev_egress_packets_tcp': Reverse Egress Packets TCP; 'fwd_ingress_bytes_tcp': Forward Ingress Bytes TCP; 'fwd_egress_bytes_tcp': Forward Egress Bytes TCP; 'rev_ingress_bytes_tcp': Reverse Ingress Bytes TCP; 'rev_egress_bytes_tcp': Reverse Egress Bytes TCP; 'fwd_ingress_packets_udp': Forward Ingress Packets UDP; 'fwd_egress_packets_udp': Forward Egress Packets UDP; 'rev_ingress_packets_udp': Reverse Ingress Packets UDP; 'rev_egress_packets_udp': Reverse Egress Packets UDP; 'fwd_ingress_bytes_udp': Forward Ingress Bytes UDP; 'fwd_egress_bytes_udp': Forward Egress Bytes UDP; 'rev_ingress_bytes_udp': Reverse Ingress Bytes UDP; 'rev_egress_bytes_udp': Reverse Egress Bytes UDP; 'fwd_ingress_packets_icmp': Forward Ingress Packets ICMP; 'fwd_egress_packets_icmp': Forward Egress Packets ICMP; 'rev_ingress_packets_icmp': Reverse Ingress Packets ICMP; 'rev_egress_packets_icmp': Reverse Egress Packets ICMP; 'fwd_ingress_bytes_icmp': Forward Ingress Bytes ICMP; 'fwd_egress_bytes_icmp': Forward Egress Bytes ICMP; 'rev_ingress_bytes_icmp': Reverse Ingress Bytes ICMP; 'rev_egress_bytes_icmp': Reverse Egress Bytes ICMP; 'fwd_ingress_packets_others': Forward Ingress Packets OTHERS; 'fwd_egress_packets_others': Forward Egress Packets OTHERS; 'rev_ingress_packets_others': Reverse Ingress Packets OTHERS; 'rev_egress_packets_others': Reverse Egress Packets OTHERS; 'fwd_ingress_bytes_others': Forward Ingress Bytes OTHERS; 'fwd_egress_bytes_others': Forward Egress Bytes OTHERS; 'rev_ingress_bytes_others': Reverse Ingress Bytes OTHERS; 'rev_egress_bytes_others': Reverse Egress Bytes OTHERS; 'fwd_ingress_pkt_size_range1': Forward Ingress Packet size between 0 and 200; 'fwd_ingress_pkt_size_range2': Forward Ingress Packet size between 201 and 800; 'fwd_ingress_pkt_size_range3': Forward Ingress Packet size

between 801 and 1550; 'fwd_ingress_pkt_size_range4': Forward Ingress Packet size between 1551 and 9000; 'fwd_egress_pkt_size_range1': Forward Egress Packet size between 0 and 200; 'fwd_egress_pkt_size_range2': Forward Egress Packet size between 201 and 800; 'fwd_egress_pkt_size_range3': Forward Egress Packet size between 801 and 1550; 'fwd_egress_pkt_size_range4': Forward Egress Packet size between 1551 and 9000; 'rev_ingress_pkt_size_range1': Reverse Ingress Packet size between 0 and 200; 'rev_ingress_pkt_size_range2': Reverse Ingress Packet size between 201 and 800; 'rev_ingress_pkt_size_range3': Reverse Ingress Packet size between 801 and 1550; 'rev_ingress_pkt_size_range4': Reverse Ingress Packet size between 1551 and 9000; 'rev_egress_pkt_size_range1': Reverse Egress Packet size between 0 and 200; 'rev_egress_pkt_size_range2': Reverse Egress Packet size between 201 and 800; 'rev_egress_pkt_size_range3': Reverse Egress Packet size between 801 and 1550; 'rev_egress_pkt_size_range4': Reverse Egress Packet size between 1551 and 9000;

Type: string

Supported Values: acl_http_domain_node_exceeded, fwd_ingress_packets_tcp, fwd_egress_packets_tcp, rev_ingress_packets_tcp, rev_egress_packets_tcp, fwd_ingress_bytes_tcp, fwd_egress_bytes_tcp, rev_ingress_bytes_tcp, rev_egress_bytes_tcp, fwd_ingress_packets_udp, fwd_egress_packets_udp, rev_ingress_packets_udp, rev_egress_packets_udp, fwd_ingress_bytes_udp, fwd_egress_bytes_udp, rev_ingress_bytes_udp, rev_egress_bytes_udp, fwd_ingress_packets_icmp, fwd_egress_packets_icmp, rev_ingress_packets_icmp, rev_egress_packets_icmp, fwd_ingress_bytes_icmp, fwd_egress_bytes_icmp, rev_ingress_bytes_icmp, rev_egress_bytes_icmp, fwd_ingress_packets_others, fwd_egress_packets_others, rev_ingress_packets_others, rev_egress_packets_others, fwd_ingress_bytes_others, fwd_egress_bytes_others, rev_ingress_bytes_others, rev_egress_bytes_others, fwd_ingress_pkt_size_range1, fwd_ingress_pkt_size_range2, fwd_ingress_pkt_size_range3, fwd_ingress_pkt_size_range4, fwd_egress_pkt_size_range1, fwd_egress_pkt_size_range2, fwd_egress_pkt_size_range3, fwd_egress_pkt_size_range4, rev_ingress_pkt_size_range1, rev_ingress_pkt_size_range2, rev_ingress_pkt_size_range3, rev_ingress_pkt_size_range4, rev_egress_pkt_size_range1, rev_egress_pkt_size_range2, rev_egress_pkt_size_range3, rev_egress_pkt_size_range4, port_overloading_port_tcp_inserted, port_overloading_port_udp_inserted, port_overloading_port_free_tcp, port_overloading_port_free_udp, chassis_incorrect_pu

lsn_tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *lsn_tcp_mss-clamp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/tcp/mss-clamp*

reset-on-error

Description: reset-on-error is a **JSON Block**. Please see below for *lsn_tcp_reset-on-error*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/tcp/reset-on-error*

lsn_tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: ((576 - 60 - 60))))

Type: number

Range: 0-1460

Default: 456

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'subtract': Specify the value to subtract from the TCP MSS; 'none': No TCP MSS clamping (default);

Type: string

Supported Values: fixed, subtract, none

Default: none

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: not configured)

Type: number

Range: 0-1460

mss-value

Description The max value allowed for the TCP MSS (default: not configured)},

Type: number

Range: 0-1460

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_tcp_reset-on-error

Specification	Value
Type	*object*

outbound

Description 'disable': Disable send TCP reset on error;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_data-sessions

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_hw-accelerate

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_hw-accelerate_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'entry-create': HW Entries Created; 'entry-create-failure': HW Entry Creation Failed; 'entry-create-fail-server-down': HW Entry Creation Failed - server down; 'entry-create-fail-max-entry': HW Entry Creation Failed - max entries exceeded; 'entry-free': HW Entries Freed; 'entry-free-opp-entry': HW Entries Freed - opposite tuple entry aged-out; 'entry-free-no-hw-prog': HW Entry Freed - no HW prog; 'entry-free-no-conn': HW Entry Freed - no matched conn; 'entry-free-no-sw-entry': HW Entry Freed - no software entry; 'entry-counter': HW Entries Count; 'entry-age-out': HW Entries Aged Out; 'entry-age-out-idle': HW Entries Aged Out - idle timeout; 'entry-age-out-tcp-fin': HW Entries Aged Out - TCP FIN; 'entry-age-out-tcp-rst': HW Entries Aged Out - TCP RST; 'entry-age-out-invalid-dst': HW Entries Aged Out - invalid dst; 'entry-force-hw-invalidate': HW Entries Force HW Invalidate; 'entry-invalidate-server-down': HW Entries Invalidate due to server down; 'tcam-create': TCAM Flows Created; 'tcam-free': TCAM Flows Freed; 'tcam-counter': TCAM Flow Count;

Type: string

Supported Values: all, entry-create, entry-create-failure, entry-create-fail-server-down, entry-create-fail-max-entry, entry-free, entry-free-opp-entry, entry-free-no-hw-prog, entry-free-no-conn, entry-free-no-sw-entry, entry-counter, entry-age-out, entry-age-out-idle, entry-age-out-tcp-fin, entry-age-out-tcp-rst, entry-age-out-invalid-dst, entry-force-hw-invalidate, entry-invalidate-server-down, tcam-create, tcam-free, tcam-counter

lsn_full-cone-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_port-reservation-list

Specification	Value
Type	*list*
Block object keys	

inside

Description Inside User Address and Port Range (Inside User IP address)

Type: string

Format: ipv4-address

inside-port-end

Description Inside End Port

Type: number

Range: 1-65535

inside-port-start

Description Inside Start Port

Type: number

Range: 1-65535

nat

Description NAT IP address

Type: string

Format: ipv4-address

nat-port-end

Description NAT End Port

Type: number

Range: 1-65535

nat-port-start

Description NAT Start Port

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_stun-timeout

Specification	Value
Type	*object*

tcp-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn/stun-timeout/tcp/{port-start}+{port-end}*

udp-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn/stun-timeout/udp/{port-start}+{port-end}*

lsn_stun-timeout_udp-list

Specification	Value
Type	*list*
Block object keys	

port-end

Description Port Range (Port Range End)

Type: number

Range: 1-65535

port-start

Description Port Range (Port Range Start)

Type: number

Range: 1-65535

timeout

Description STUN timeout in minutes (default: 2 minutes)

Type: number

Range: 0-60

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_stun-timeout_tcp-list

Specification	Value
Type	*list*
Block object keys	

port-end

Description Port Range (Port Range End)

Type: number

Range: 1-65535

port-start

Description Port Range (Port Range Start)

Type: number

Range: 1-65535

timeout

Description STUN timeout in minutes (default: 2 minutes)

Type: number

Range: 0-60

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_user-quota-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_performance

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_performance_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'data-sessions-current-epoch': some help string; 'fullcone-created-current-epoch': some help string; 'user-quote-created-current-epoch': some help string; 'data-sessions-previous-epoch-first': some help string; 'fullcone-created-previous-epoch-first': some help string; 'user-quote-created-previous-epoch-first': some help string; 'data-sessions-previous-epoch-last': some help string; 'fullcone-created-previous-epoch-last': some help string; 'user-quote-created-previous-epoch-last': some help string;

Type: string

Supported Values: all, data-sessions-current-epoch, fullcone-created-current-epoch, user-quote-created-current-epoch, data-sessions-previous-epoch-first, fullcone-created-previous-epoch-first, user-quote-created-previous-epoch-first, data-sessions-previous-epoch-last, fullcone-created-previous-epoch-last, user-quote-created-previous-epoch-last

lsn_enhanced-user-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_port-reservation-entries

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_endpoint-independent-filtering

Specification	Value
Type	*object*

tcp

Description: tcp is a **JSON Block**. Please see below for *lsn_endpoint-independent-filtering_tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *lsn_endpoint-independent-filtering_udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp*

lsn_endpoint-independent-filtering_udp

Specification	Value
Type	*object*

port-list

Type: List

session-limit

Description Limit number of EIF sessions that can be created per port

Type: number

Range: 1-65535

Default: 65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_endpoint-independent-filtering_udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

lsn_endpoint-independent-filtering_tcp

Specification	Value
Type	*object*

port-list

Type: List

session-limit

Description Limit number of EIF sessions that can be created per port

Type: number

Range: 1-65535

Default: 65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn_endpoint-independent-filtering_tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

lsn_per-instance

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global

Specification	Value
Type	*object*

domain-list

Description: domain-list is a **JSON Block**. Please see below for *global_domain-list*

Type: Object

Reference Object: */axapi/v3/cgnv6/global/domain-list*

ping-sweep-detection

Description 'enable': Enable ping sweep detection; 'disable': Disable ping sweep detection(default);

Type: string

Supported Values: enable, disable

Default: disable

port-scan-detection

Description 'enable': Enable port scan detection; 'disable': Disable port scan detection(default);

Type: string

Supported Values: enable, disable

Default: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'tcp-total-ports-allocated': Total TCP ports allocated; 'udp-total-ports-allocated': Total UDP ports allocated; 'icmp-total-ports-allocated': Total ICMP ports allocated;

Type: string

Supported Values: all, tcp-total-ports-allocated, udp-total-ports-allocated, icmp-total-ports-allocated

global_domain-list

Specification	Value
Type	*object*

aaaa-query

Description 'enable': Enable the DNS AAAA query for each domain in the domain list.; 'disable': Disable the DNS AAAA query for each domain in the domain list.;

Type: string

Supported Values: enable, disable

Default: enable

fail-interval

Description Set up the global failure interval in second for the DNS resolution.

Type: number

Range: 3-600

interval

Description Set up the global query interval in minute for the DNS resolution.

Type: number

Range: 1-1440

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

translation

Specification	Value
Type	*object*

icmp-timeout

Description: icmp-timeout is a **JSON Block**. Please see below for *translation_icmp-timeout*

Type: Object

service-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/translation/service-timeout/{service-type}+{port}*

tcp-timeout

Description TCP protocol extended translations (Timeout in seconds (Interval of 60 seconds), default is 300 seconds (5 minutes))

Type: number

Range: 2-15000

Default: 300

udp-timeout

Description UDP protocol extended translations (Timeout in seconds (Interval of 60 seconds), default is 300 seconds (5 minutes))

Type: number

Range: 2-15000

Default: 300

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

translation_service-timeout-list

Specification	Value
Type	*list*
Block object keys	

fast

Description Use Fast Aging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: fast and timeout-val are mutually exclusive

port

Description Port Number

Type: number

Range: 1-65535

port-end

Description End Port Number

Type: number

Range: 1-65535

service-type

Description 'tcp': TCP Protocol; 'udp': UDP Protocol;

Type: string

Supported Values: tcp, udp

timeout-val

Description Timeout in seconds (Interval of 60 seconds)

Type: number

Range: 2-15000

Mutual Exclusion: timeout-val and fast are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

translation_icmp-timeout

Specification	Value
Type	*object*

fast

Description Use Fast Aging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: fast and icmp-timeout-val are mutually exclusive

icmp-timeout-val

Description Timeout in seconds (Interval of 60 seconds)

Type: number

Range: 2-15000

Mutual Exclusion: icmp-timeout-val and fast are mutually exclusive

icmp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'icmp-unknown-type': ICMP Unknown Type; 'icmp-no-port-info': ICMP Port Info Not Included; 'icmp-no-session-drop': ICMP No Matching Session Drop; 'icmpv6-unknown-type': ICMPv6 Unknown Type; 'icmpv6-no-port-info': ICMPv6 Port Info Not Included; 'icmpv6-no-session-drop': ICMPv6 No Matching Session Drop; 'icmp-to-icmp': ICMP to ICMP Conversion; 'icmp-to-icmpv6': ICMP to ICMPv6 Conversion; 'icmpv6-to-icmp': ICMPv6 to ICMP Conversion; 'icmpv6-to-icmpv6': ICMPv6 to ICMPv6 Conversion; 'icmp-bad-type': Bad Embedded ICMP Type; 'icmpv6-bad-type': Bad Embedded ICMPv6 Type; '64-known-drop': NAT64 Forward Known ICMPv6 Drop; '64-unknown-drop': NAT64 Forward Unknown ICMPv6 Drop; '64-midpoint-hop': NAT64 Forward Unknown Source Drop; '46-known-drop': NAT64 Reverse Known ICMP Drop; '46-unknown-drop': NAT64 Reverse Known ICMPv6 Drop; '46-no-prefix-for-ipv4': NAT64 Reverse No Prefix Match for IPv4; '46-bad-encap-ip-header-len': 4to6 Bad Encapsulated IP Header Length; 'icmp-to-icmp-err': ICMP to ICMP Conversion Error; 'icmp-to-icmpv6-err': ICMP to ICMPv6 Conversion Error; 'icmpv6-to-icmp-err': ICMPv6 to ICMP Conversion Error; 'icmpv6-to-icmpv6-err': ICMPv6 to ICMPv6 Conversion Error; 'encap-cross-cpu-no-match': ICMP Embedded Cross CPU No Matching Session; 'encap-cross-cpu-preprocess-err': ICMP Embedded Cross CPU Preprocess Error; 'icmp-to-icmp-unknown-l4': ICMP Embedded Unknown L4 Protocol; 'icmp-to-icmpv6-unknown-l4': ICMP to ICMPv6 Embedded Unknown L4 Protocol; 'icmpv6-to-icmp-unknown-l4': ICMPv6 to ICMP Embedded Unknown L4 Protocol; 'icmpv6-to-icmpv6-unknown-l4': ICMPv6 to ICMPv6 Embedded Unknown L4 Protocol; 'static-nat': ICMP Static NAT; 'echo-to-pool-reply': Ping to Pool Reply; 'echo-to-pool-drop': Ping to Pool Drop; 'error-to-pool-drop': Error to Pool Drop; 'echo-to-pool-reply-v6': Ping6 to Pool Reply; 'echo-to-pool-drop-v6': Ping6 to Pool Drop; 'error-to-pool-drop-v6': Error to IPv6 Pool Drop; 'error-ip-mismatch': ICMP IP address mismatch;

Type: string

Supported Values: all, icmp-unknown-type, icmp-no-port-info, icmp-no-session-drop, icmpv6-unknown-type, icmpv6-no-port-info, icmpv6-no-session-drop, icmp-to-icmp, icmp-to-icmpv6, icmpv6-to-icmp, icmpv6-to-icmpv6, icmp-bad-type, icmpv6-bad-type, 64-known-drop, 64-unknown-drop, 64-midpoint-hop, 46-known-drop, 46-unknown-drop, 46-no-prefix-for-ipv4, 46-bad-encap-ip-header-len, icmp-to-icmp-err, icmp-to-icmpv6-err, icmpv6-to-icmp-err, icmpv6-to-icmpv6-err, encap-cross-cpu-no-match, encap-cross-cpu-preprocess-err, icmp-to-icmp-unknown-l4, icmp-to-icmpv6-unknown-l4, icmpv6-to-icmp-unknown-l4, icmpv6-to-icmpv6-unknown-l4, static-nat, echo-to-pool-reply, echo-to-pool-drop, error-to-pool-drop, echo-to-pool-reply-v6, echo-to-pool-drop-v6, error-to-pool-drop-v6, error-ip-mismatch

port-batch-v1

Specification	Value
Type	*object*

enable-port-batch-v1

Description Enable lsn port-batching v1 (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pcp

Specification	Value
Type	*object*

default-template

Description Bind the default template for PCP (Bind a PCP template)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pcp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packets-rcv': Packets Received; 'lsn-map-process-success': PCP MAP Request Processing Success (NAT44); 'dslite-map-process-success': PCP MAP Request Processing Success (DS-Lite); 'nat64-map-process-success': PCP MAP Request Processing Success (NAT64); 'lsn-peer-process-success': PCP PEER Request Processing Success (NAT44); 'dslite-peer-process-success': PCP PEER Request Processing Success (DS-Lite); 'nat64-peer-process-success': PCP PEER Request Processing Success (NAT64); 'lsn-announce-process-success': PCP ANNOUNCE Request Processing Success (NAT44); 'dslite-announce-process-success': PCP ANNOUNCE Request Processing Success (DS-Lite); 'nat64-announce-process-success': PCP ANNOUNCE Request Processing Success (NAT64); 'pkt-not-request-drop': Packet Not a PCP Request; 'pkt-too-short-drop': Packet Too Short; 'noroute-drop': Response No Route; 'unsupported-version': Unsupported PCP version; 'not-authorized': PCP Request Not Authorized; 'malform-request': PCP Request Malformed; 'unsupp-opcode': Unsupported PCP Opcode; 'unsupp-option': Unsupported PCP Option; 'malform-option': PCP Option Malformed; 'no-resources': No System or NAT Resources; 'unsupp-protocol': Unsupported Mapping Protocol; 'user-quota-exceeded': User Quota Exceeded; 'cannot-provide-suggest': Cannot Provide Suggested Port When PREFER_FAILURE; 'address-mismatch': PCP Client Address Mismatch; 'excessive-remote-peers': Excessive Remote Peers; 'pkt-not-from-nat-inside': Packet Dropped For Not Coming From NAT Inside; 'l4-process-error': L3/L4 Process Error; 'internal-error-drop': Internal Error; 'unsol_ance_sent_succ': Unsolicited Announce Sent; 'unsol_ance_sent_fail': Unsolicited Announce Send Failure; 'ha_sync_epoch_sent': HA Sync PCP Epoch Sent; 'ha_sync_epoch_rcv': HA Sync PCP Epoch Recv; 'fullcone-ext-alloc': PCP Fullcone Extension Alloc; 'fullcone-ext-free': PCP Fullcone Extension Free; 'fullcone-ext-alloc-failure': PCP Fullcone Extension Alloc Failure; 'fullcone-ext-notfound': PCP Fullcone Extension Not Found; 'fullcone-ext-reuse': PCP Fullcone Extension Reuse; 'client-nonce-mismatch': PCP Client Nonce Mismatch; 'map-filter-set': PCP MAP Filter Set; 'map-filter-deny': PCP MAP Filter Deny Inbound; 'inter-board-pkts': PCP Inter board packets;

Type: string

Supported Values: all, packets-rcv, lsn-map-process-success, dslite-map-process-success, nat64-map-process-success, lsn-peer-process-success, dslite-peer-process-success, nat64-peer-process-success, lsn-announce-process-success, dslite-announce-process-success, nat64-announce-process-success, pkt-not-request-drop, pkt-too-short-drop, noroute-drop, unsupported-version, not-authorized, malform-request, unsupp-opcode, unsupp-option, malform-option, no-resources, unsupp-protocol, user-quota-exceeded, cannot-provide-suggest, address-mismatch, excessive-remote-peers, pkt-not-from-nat-inside, l4-process-error, internal-error-drop, unsol_ance_sent_succ, unsol_ance_sent_fail, ha_sync_epoch_sent, ha_sync_epoch_rcv, fullcone-ext-alloc, fullcone-ext-free, fullcone-ext-alloc-failure, fullcone-ext-notfound, fullcone-ext-reuse, client-nonce-mismatch, map-filter-set, map-filter-deny, inter-board-pkts

fixed-nat

Specification	Value
Type	*object*

alg

Description: alg is a **JSON Block**. Please see below for *fixed-nat_alg*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg*

detail

Description: detail is a **JSON Block**. Please see below for *fixed-nat_detail*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/detail*

disable

Description: disable is a **JSON Block**. Please see below for *fixed-nat_disable*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/disable*

disabled-config

Description: disabled-config is a **JSON Block**. Please see below for *fixed-nat_disabled-config*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/disabled-config*

full-cone-session

Description: full-cone-session is a **JSON Block**. Please see below for *fixed-nat_full-cone-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/full-cone-session*

global

Description: global is a **JSON Block**. Please see below for *fixed-nat_global*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/global*

histogram

Description: histogram is a **JSON Block**. Please see below for *fixed-nat_histogram*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/histogram*

hw-accelerate

Description: hw-accelerate is a **JSON Block**. Please see below for *fixed-nat_hw-accelerate*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/hw-accelerate*

inside

Description: inside is a **JSON Block**. Please see below for *fixed-nat_inside*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/inside*

per-instance

Description: per-instance is a **JSON Block**. Please see below for *fixed-nat_per-instance*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/per-instance*

port-mapping

Description: port-mapping is a **JSON Block**. Please see below for *fixed-nat_port-mapping*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/port-mapping*

port-mapping-files

Description: port-mapping-files is a **JSON Block**. Please see below for *fixed-nat_port-mapping-files*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/port-mapping-files*

user-quota

Description: user-quota is a **JSON Block**. Please see below for *fixed-nat_user-quota*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/user-quota*

fixed-nat_port-mapping

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_full-cone-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_alg

Specification	Value
Type	*object*

esp

Description: esp is a **JSON Block**. Please see below for *fixed-nat_alg_esp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/esp*

ftp

Description: ftp is a **JSON Block**. Please see below for *fixed-nat_alg_ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/ftp*

h323

Description: h323 is a **JSON Block**. Please see below for *fixed-nat_alg_h323*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/h323*

mgcp

Description: mgcp is a **JSON Block**. Please see below for *fixed-nat_alg_mgcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/mgcp*

pptp

Description: pptp is a **JSON Block**. Please see below for *fixed-nat_alg_pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/pptp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *fixed-nat_alg_rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *fixed-nat_alg_sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *fixed-nat_alg_tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/tftp*

fixed-nat_alg_ftp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_alg_ftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'port-requests': PORT Requests From Client; 'eprt-requests': EPRT Requests From Client; 'lprt-requests': LPRT Requests From Client; 'pasv-replies': PASV Replies From Server; 'epsv-replies': EPSV Replies From Server; 'lpsv-replies': LPSV Replies From Server; 'port-retransmits': Port Mode Request Retransmits; 'pasv-retransmits': Passive Mode Reply Retransmits; 'port-helper-created': Port Mode Helper Created; 'pasv-helper-created':

Passive Mode Helper Created; 'port-helper-freed': Port Mode Helper Freed; 'pasv-helper-freed': Passive Mode Helper Freed; 'port-helper-unused': Port Mode Helper Unused; 'pasv-helper-unused': Passive Mode Helper Unused; 'port-helper-creation-failure': Port Helper Creation Failure; 'pasv-helper-creation-failure': Passive Helper Creation Failure; 'get-conn-ext-failure': Get Conn Extension Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, port-requests, eprt-requests, lprt-requests, pasv-replies, epsv-replies, lpsv-replies, port-retransmits, pasv-retransmits, port-helper-created, pasv-helper-created, port-helper-freed, pasv-helper-freed, port-helper-unused, pasv-helper-unused, port-helper-creation-failure, pasv-helper-creation-failure, get-conn-ext-failure, smp-app-type-mismatch

fixed-nat_alg_sip

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_alg_sip_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'method-register': SIP Method REGISTER; 'method-invite': SIP Method INVITE; 'method-ack': SIP Method ACK; 'method-cancel': SIP Method CANCEL; 'method-bye': SIP Method BYE; 'method-options': SIP Method OPTIONS; 'method-prack': SIP Method PRACK; 'method-subscribe': SIP Method SUBSCRIBE; 'method-notify': SIP Method NOTIFY; 'method-publish': SIP Method PUBLISH; 'method-info': SIP Method INFO; 'method-refer': SIP Method REFER; 'method-message': SIP Method MESSAGE; 'method-update': SIP Method UPDATE; 'method-unknown': SIP Method UNKNOWN; 'parse-error': SIP Message Parse Error; 'req-uri-op-failrue': SIP Operate Request Uri Failure; 'via-hdr-op-failrue': SIP Operate Via Header Failure; 'contact-hdr-op-failrue': SIP Operate Contact Header Failure; 'from-hdr-op-failrue': SIP Operate From Header Failure; 'to-hdr-op-failrue': SIP Operate To Header Failure; 'route-hdr-op-failrue': SIP Operate Route Header Failure; 'record-route-hdr-op-failrue': SIP Operate Record-Route Header

Failure; 'content-length-hdr-op-failrue': SIP Operate Content-Length Failure; 'third-party-registration': SIP Third-Party Registration; 'conn-ext-creation-failure': SIP Create Connection Extension Failure; 'alloc-contact-port-failure': SIP Alloc Contact Port Failure; 'outside-contact-port-mismatch': SIP Outside Contact Port Mismatch NAT Port; 'inside-contact-port-mismatch': SIP Inside Contact Port Mismatch; 'third-party-sdp': SIP Third-Party SDP; 'sdp-process-candidate-failure': SIP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': SIP Operate SDP Failure; 'sdp-alloc-port-map-success': SIP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': SIP Alloc SDP Port Map Failure; 'modify-failure': SIP Message Modify Failure; 'rewrite-failure': SIP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'helper-found': SMP Helper Conn Found; 'helper-created': SMP Helper Conn Created; 'helper-deleted': SMP Helper Conn Already Deleted; 'helper-freed': SMP Helper Conn Freed; 'helper-failure': SMP Helper Failure;

Type: string

Supported Values: all, method-register, method-invite, method-ack, method-cancel, method-bye, method-options, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error, req-uri-op-failrue, via-hdr-op-failrue, contact-hdr-op-failrue, from-hdr-op-failrue, to-hdr-op-failrue, route-hdr-op-failrue, record-route-hdr-op-failrue, content-length-hdr-op-failrue, third-party-registration, conn-ext-creation-failure, alloc-contact-port-failure, outside-contact-port-mismatch, inside-contact-port-mismatch, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop, smp-conn-alloc-failure, helper-found, helper-created, helper-deleted, helper-freed, helper-failure

fixed-nat_alg_esp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_alg_esp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'placeholder-debug': Placeholder Debug;

Type: string

Supported Values: all, session-created, placeholder-debug

fixed-nat_alg_pptp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_alg_pptp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'mismatched-pns-call-id': Mismatched PNS Call ID; 'gre-sessions-created': GRE Sessions Created; 'gre-sessions-freed': GRE Sessions Freed; 'no-gre-session-match': No Matching GRE Session; 'smp-sessions-created': SMP Sessions Created; 'smp-sessions-freed': SMP Sessions Freed; 'smp-session-creation-failure': SMP Session Creation Failures; 'extension-creation-failure': Extension Creation Failures; 'ha-sent': HA Info Sent; 'ha-rcv': HA Info Received; 'ha-no-mem': HA Memory Allocation Failure; 'ha-conflict': HA Call ID Conflicts; 'ha-overwrite': HA Call ID Overwrites; 'ha-call-sent': HA Call Sent; 'ha-call-rcv': HA Call Received; 'ha-smp-conflict': HA SMP Conflicts; 'ha-smp-in-del-q': HA SMP Deleted; 'smp-app-type-mismatch': SMP ALG App Type Mismatch; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request

Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-retransmit-wrong-control': Call Reply Retransmit Wrong Control; 'call-reply-retransmit-acquired': Call Reply Retransmit Acquired; 'call-reply-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, mismatched-pns-call-id, gre-sessions-created, gre-sessions-freed, no-gre-session-match, smp-sessions-created, smp-sessions-freed, smp-session-creation-failure, extension-creation-failure, ha-sent, ha-rcv, ha-no-mem, ha-conflict, ha-overwrite, ha-call-sent, ha-call-rcv, ha-smp-conflict, ha-smp-in-del-q, smp-app-type-mismatch, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-retransmit-wrong-control, call-reply-retransmit-acquired, call-reply-ext-alloc-failure, smp-client-call-id-mismatch, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

fixed-nat_alg_rtsp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_alg_rtsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'streams-created': Streams Created; 'streams-freed': Streams Freed; 'stream-creation-failure': Stream Creation Failures; 'ports-allocated': Stream Client Ports Allocated; 'ports-freed': Stream Client Ports Freed; 'port-allocation-failure': Stream Client Port Allocation Failures; 'unknown-client-port-from-server': Server Replies With Unknown Client Ports; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'no-session-mem': Data Session Creation Failures; 'smp-inserted': SMP Session Inserted; 'smp-removed': SMP Session Removed; 'smp-reused': SMP Session Reused; 'fixed-nat-lid-standby': New Session Fixed NAT LID Standby; 'smp-deleted': New Session SMP Already Deleted; 'control-closed': New Session Closed; 'data-session-exists': New Session Already Exists; 'data-session-creation-failure': New Data Session Creation Failure; 'rtp-reversed': RTP Reverse Creation; 'rtcp-reversed': RTCP Reverse Creation; 'cross-cpu-sent': Cross CPU Sent; 'cross-cpu-rcv': Cross CPU Received; 'cross-cpu-no-session': Cross CPU No Session Found; 'cross-cpu-created': Cross CPU Creation; 'cross-cpu-rcv-failure': Cross CPU Receive Failure; 'data-free-smp-retry-lookup': Data Session Free SMP Retry Lookup; 'data-free-smp-not-found': Data Session Free SMP Not Found; 'ha-streams-sent': HA Streams Sent; 'ha-streams-rcv': HA Streams Received; 'ha-stream-incompatible': HA Incompatible Streams Received; 'ha-stream-exists': HA Stream Already Exists; 'ha-port-allocation-failure': HA Stream Port Allocation Failure; 'ha-data-session-sent': HA Data Session Sent; 'ha-data-session-rcv': HA Data Session Received; 'ha-data-no-smp': HA Data Session SMP Not Found; 'ha-control-closed': HA New Data Control Session Closed; 'ha-data-exists': HA New Data Session Already Exists; 'ha-extension-failure': HA Conn Extension Failure; 'ha-stream-smp-reused': HA SMP Session Reused; 'ha-stream-smp-acquire-failure': HA SMP Session Acquire Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, streams-created, streams-freed, stream-creation-failure, ports-allocated, ports-freed, port-allocation-failure, unknown-client-port-from-server, data-session-created, data-session-freed, no-session-mem, smp-inserted, smp-removed, smp-reused, fixed-nat-lid-standby, smp-deleted, control-closed, data-session-exists, data-session-creation-failure, rtp-reversed, rtcp-reversed, cross-cpu-sent, cross-cpu-rcv, cross-cpu-no-session, cross-cpu-created, cross-cpu-rcv-failure, data-free-smp-retry-lookup, data-free-smp-not-found, ha-streams-sent, ha-streams-rcv, ha-stream-incompatible, ha-stream-exists, ha-port-allocation-failure, ha-data-session-sent, ha-data-session-rcv, ha-data-no-smp, ha-control-closed, ha-data-exists, ha-extension-failure, ha-stream-smp-reused, ha-stream-smp-acquire-failure, smp-app-type-mismatch

fixed-nat_alg_h323

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_alg_h323_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'h225ras-message': H323 H225 RAS Message; 'h225cs-message': H323 H225 Call Signaling Message; 'h245ctl-message': H323 H245 Media Control Message; 'h245-tunneled': H323 H245 Tunnelled Message; 'fast-start': H323 FastStart; 'parse-error': Message Parse Error; 'message-cross-multi-packets': H323 Message Cross Multiple Packets; 'conn-ext-creation-failure': H323 Packet Rewrite Failure; 'rewrite-failure': H323 Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'h245-dynamic-addr-exceed': H323 H245 Dynamic Address Exceed;

Type: string

Supported Values: all, h225ras-message, h225cs-message, h245ctl-message, h245-tunneled, fast-start, parse-error, message-cross-multi-packets, conn-ext-creation-failure, rewrite-failure, tcp-out-of-order-drop, h245-dynamic-addr-exceed

fixed-nat_alg_tftp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_alg_tftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions Created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

fixed-nat_alg_mgcp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_alg_mgcp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auep': MGCP AUEP; 'aucx': MGCP AUCX; 'crcx': MGCP CRCX; 'dlcx': MGCP DLCX; 'epcf': MGCP EPCF; 'mdcx': MGCP MDCX; 'ntfy': MGCP NTFY; 'rqnt': MGCP RQNT; 'rsip': MGCP RSIP; 'parse-error': MGCP Message Parse Error; 'conn-ext-creation-failure': MGCP Create Connection Extension Failure; 'third-party-sdp': MGCP Third-Party SDP; 'sdp-process-candidate-failure': MGCP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': MGCP Operate SDP Failure; 'sdp-alloc-port-map-success': MGCP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': MGCP Alloc SDP Port Map Failure; 'modify-failure': MGCP Message Modify Failure; 'rewrite-failure': MGCP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop;

Type: string

Supported Values: all, auep, aucx, crcx, dlcx, epcf, mdcx, ntfy, rqnt, rsip, parse-error, conn-ext-creation-failure, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop

fixed-nat_inside

Specification	Value
Type	*object*

iplist-list

Type: List

Reference Object: */axapi/v3/cgnv6/fixed-nat/inside/iplist/{inside-ip-list}+{partition}*

ipv4address-list

Type: List

Reference Object: */axapi/v3/cgnv6/fixed-nat/inside/ipv4address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}*

ipv6address-list

Type: List

Reference Object: */axapi/v3/cgnv6/fixed-nat/inside/ipv6address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}*

fixed-nat_inside_iplist-list

Specification	Value
Type	*list*
Block object keys	

dest-rule-list

Description Bind destination based Rule-List (Fixed NAT Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-pool-size

Description Configure size of Dynamic pool (Default: 0)

Type: number

Range: 0-64511

Default: 0

inside-ip-list

Description Name of IP List used to specify Inside Users

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

method

Description 'use-all-nat-ips': Use all the NAT IP addresses configured; 'use-least-nat-ips': Use the least number of NAT IP addresses required (default);

Type: string

Supported Values: use-all-nat-ips, use-least-nat-ips

Default: use-least-nat-ips

nat-end-address

Description IPv4 End NAT Address

Type: string

Format: ipv4-address

nat-ip-list

Description Name of IP List used to specify NAT addresses

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nat-netmask

Description NAT Addresses IP Netmask

Type: string

Format: ipv4-netmask-brief

nat-start-address

Description Start NAT Address

Type: string

Format: ipv4-address

offset

Description: offset is a **JSON Block**. Please see below for *fixed-nat_inside_iplist-list_offset*

Type: Object

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

ports-per-user

Description Configure Ports per Inside User (ports-per-user)

Type: number

Range: 1-64512

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (Default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-config-template

Description Scaleout service-config template to bind (Scaleout service-config template name)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

session-quota

Description Configure per user quota on sessions

Type: number

Range: 1-2147483647

skip-ports-on-rollover

Description Not using the first block of ports for NAT IPs smaller than the configured offset

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports

Description: usable-nat-ports is a **JSON Block**. Please see below for *fixed-nat_inside_iplist-list_usable-nat-ports*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

fixed-nat_inside_iplist-list_usable-nat-ports

Specification	Value
Type	*object*

usable-end-port

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-start-port

Description Start Port of Usable NAT Ports

Type: number

Range: 1024-65535

fixed-nat_inside_iplist-list_offset

Specification	Value
Type	*object*

numeric-offset

Description Configure a numeric offset to the first NAT IP address

Type: number

Range: 0-1024000

Default: 0

Mutual Exclusion: numeric-offset and random are mutually exclusive

random

Description Randomly choose the first NAT IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: random and numeric-offset are mutually exclusive

fixed-nat_inside_ipv4address-list

Specification	Value
Type	*list*
Block object keys	

dest-rule-list

Description Bind destination based Rule-List (Fixed NAT Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-pool-size

Description Configure size of Dynamic pool (Default: 0)

Type: number

Range: 0-64511

Default: 0

inside-end-address

Description IPv4 Inside User End Address

Type: string

Format: ipv4-address

inside-netmask

Description IPv4 Netmask

Type: string

Format: ipv4-netmask-brief

inside-start-address

Description IPv4 Inside User Start Address

Type: string

Format: ipv4-address

method

Description 'use-all-nat-ips': Use all the NAT IP addresses configured; 'use-least-nat-ips': Use the least number of NAT IP addresses required (default);

Type: string

Supported Values: use-all-nat-ips, use-least-nat-ips

Default: use-least-nat-ips

nat-end-address

Description IPv4 End NAT Address

Type: string

Format: ipv4-address

nat-ip-list

Description Name of IP List used to specify NAT addresses

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nat-netmask

Description NAT Addresses IP Netmask

Type: string

Format: ipv4-netmask-brief

nat-start-address

Description Start NAT Address

Type: string

Format: ipv4-address

offset

Description: offset is a **JSON Block**. Please see below for *fixed-nat_inside_ipv4address-list_offset*

Type: Object

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

ports-per-user

Description Configure Ports per Inside User (ports-per-user)

Type: number

Range: 1-64512

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (Default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-config-template

Description Scaleout service-config template to bind (Scaleout service-config template name)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

session-quota

Description Configure per user quota on sessions

Type: number

Range: 1-2147483647

skip-ports-on-rollover

Description Not using the first block of ports for NAT IPs smaller than the configured offset

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports

Description: usable-nat-ports is a **JSON Block**. Please see below for *fixed-nat_inside_ipv4address-list_usable-nat-ports*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

fixed-nat_inside_ipv4address-list_usable-nat-ports

Specification	Value
Type	*object*

usable-end-port

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-start-port

Description Start Port of Usable NAT Ports

Type: number

Range: 1024-65535

fixed-nat_inside_ipv4address-list_offset

Specification	Value
Type	*object*

numeric-offset

Description Configure a numeric offset to the first NAT IP address

Type: number

Range: 0-1024000

Default: 0

Mutual Exclusion: numeric-offset and random are mutually exclusive

random

Description Randomly choose the first NAT IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: random and numeric-offset are mutually exclusive

fixed-nat_inside_ipv6address-list

Specification	Value
Type	*list*
Block object keys	

dest-rule-list

Description Bind destination based Rule-List (Fixed NAT Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-pool-size

Description Configure size of Dynamic pool (Default: 0)

Type: number

Range: 0-64511

Default: 0

inside-end-address

Description IPv6 Inside User End Address

Type: string

Format: ipv6-address

inside-netmask

Description Inside User IPv6 Netmask

Type: number

Range: 64-128

inside-start-address

Description IPv6 Inside User Start Address

Type: string

Format: ipv6-address

method

Description 'use-all-nat-ips': Use all the NAT IP addresses configured; 'use-least-nat-ips': Use the least number of NAT IP addresses required (default);

Type: string

Supported Values: use-all-nat-ips, use-least-nat-ips

Default: use-least-nat-ips

nat-end-address

Description IPv4 End NAT Address

Type: string

Format: ipv4-address

nat-ip-list

Description Name of IP List used to specify NAT addresses

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nat-netmask

Description NAT Addresses IP Netmask

Type: string

Format: ipv4-netmask-brief

nat-start-address

Description Start NAT Address

Type: string

Format: ipv4-address

offset

Description: offset is a **JSON Block**. Please see below for *fixed-nat_inside_ipv6address-list_offset*

Type: Object

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

ports-per-user

Description Configure Ports per Inside User (ports-per-user)

Type: number

Range: 1-64512

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (Default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-config-template

Description Scaleout service-config template to bind (Scaleout service-config template name)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

session-quota

Description Configure per user quota on sessions

Type: number

Range: 1-2147483647

skip-ports-on-rollover

Description Not using the first block of ports for NAT IPs smaller than the configured offset

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports

Description: usable-nat-ports is a **JSON Block**. Please see below for *fixed-nat_inside_ipv6address-list_usable-nat-ports*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

fixed-nat_inside_ipv6address-list_usable-nat-ports

Specification	Value
Type	*object*

usable-end-port

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-start-port

Description Start Port of Usable NAT Ports

Type: number

Range: 1024-65535

fixed-nat_inside_ipv6address-list_offset

Specification	Value
Type	*object*

numeric-offset

Description Configure a numeric offset to the first NAT IP address

Type: number

Range: 0-1024000

Default: 0

Mutual Exclusion: numeric-offset and random are mutually exclusive

random

Description Randomly choose the first NAT IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: random and numeric-offset are mutually exclusive

fixed-nat_global

Specification	Value
Type	*object*

create-port-mapping-file

Description Create Port Mapping File

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-mapping-files-count

Description Number of old fixed_nat files to store

Type: number

Range: 1-10

Default: 5

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total-nat-in-use': Total NAT Addresses in-use; 'total-tcp-allocated': Total TCP Ports Allocated; 'total-tcp-freed': Total TCP Ports Freed; 'total-udp-allocated': Total UDP Ports Allocated; 'total-udp-freed': Total UDP Ports Freed; 'total-icmp-allocated': Total ICMP Ports Allocated; 'total-icmp-freed': Total ICMP Ports Freed; 'nat44-data-session-created': NAT44 Data Sessions Created; 'nat44-data-session-freed': NAT44 Data Sessions Freed; 'nat64-data-session-created': NAT64 Data Sessions Created; 'nat64-data-session-freed': NAT64 Data Sessions Freed; 'dslite-data-session-created': DS-Lite Data Sessions Created; 'dslite-data-session-freed': DS-Lite Data Sessions Freed; 'nat-port-unavailable-tcp': TCP NAT Port Unavailable; 'nat-port-unavailable-udp': UDP NAT Port Unavailable; 'nat-port-unavailable-icmp': ICMP NAT Port Unavailable; 'session-user-quota-exceeded': Sessions User Quota Exceeded; 'nat44-tcp-fullcone-created': NAT44 TCP Full-Cone Created; 'nat44-tcp-fullcone-freed': NAT44 TCP Full-Cone Freed; 'nat44-udp-fullcone-created': NAT44 UDP Full-Cone Created; 'nat44-udp-fullcone-freed': NAT44 UDP Full-Cone Freed; 'nat44-udp-alg-fullcone-created': NAT44 UDP ALG Full-Cone Created; 'nat44-udp-alg-fullcone-freed': NAT44 UDP ALG Full-Cone Freed; 'nat64-tcp-fullcone-created': NAT64 TCP Full-Cone Created; 'nat64-tcp-fullcone-freed': NAT64 TCP Full-Cone Freed; 'nat64-udp-fullcone-created': NAT64 UDP Full-Cone Created; 'nat64-udp-fullcone-freed': NAT64 UDP Full-Cone Freed; 'nat64-udp-alg-fullcone-created': NAT64 UDP ALG Full-Cone Created; 'nat64-udp-alg-fullcone-freed': NAT64 UDP ALG Full-Cone Freed; 'dslite-tcp-fullcone-created': DS-Lite TCP Full-Cone Created; 'dslite-tcp-fullcone-freed': DS-Lite TCP Full-Cone Freed; 'dslite-udp-fullcone-created': DS-Lite UDP Full-Cone Created; 'dslite-udp-fullcone-freed': DS-Lite UDP Full-Cone Freed; 'dslite-udp-alg-fullcone-created': DS-Lite UDP ALG Full-Cone Created; 'dslite-udp-alg-fullcone-freed': DS-Lite UDP ALG Full-Cone Freed; 'fullcone-failure': Full-Cone Session Creation Failed; 'nat44-eim-match': NAT44 Endpoint-Independent-Mapping Matched; 'nat64-eim-match': NAT64 Endpoint-Independent-Mapping Matched; 'dslite-eim-match': DS-Lite Endpoint-Independent-Mapping Matched; 'nat44-eif-match': NAT44 Endpoint-Independent-Filtering Matched; 'nat64-eif-match': NAT64 Endpoint-Independent-Filtering Matched; 'dslite-eif-match': DS-Lite Endpoint-Independent-Filtering Matched; 'nat44-inbound-filtered': NAT44 Endpoint-Dependent Filtering Drop; 'nat64-inbound-filtered': NAT64 Endpoint-Dependent Filtering Drop; 'dslite-inbound-filtered': DS-Lite Endpoint-Dependent Filtering Drop; 'nat44-eif-limit-exceeded': NAT44 Endpoint-Independent-Filtering Limit Exceeded; 'nat64-eif-limit-exceeded': NAT64 Endpoint-Independent-Filtering Limit Exceeded; 'dslite-eif-limit-exceeded': DS-Lite Endpoint-Independent-Filtering Limit Exceeded; 'nat44-hairpin': NAT44

Hairpin Session Created; 'nat64-hairpin': NAT64 Hairpin Session Created; 'dslite-hairpin': DS-Lite Hairpin Session Created; 'standby-drop': Fixed NAT LID Standby Drop; 'fixed-nat-fullcone-self-hairpinning-drop': Self-Hairpinning Drop; 'sixrd-drop': Fixed NAT IPv6 in IPv4 Packet Drop; 'dest-rlist-drop': Fixed NAT Dest Rule List Drop; 'dest-rlist-pass-through': Fixed NAT Dest Rule List Pass-Through; 'dest-rlist-snat-drop': Fixed NAT Dest Rules List Source NAT Drop; 'cross-cpu-helper-created': Cross CPU Helper Session Created; 'cross-cpu-helper-free-retry-lookup': Cross CPU Helper Session Free Retry Lookup; 'cross-cpu-helper-free-not-found': Cross CPU Helper Session Free not Found; 'cross-cpu-helper-free': Cross CPU Helper Session Freed; 'cross-cpu-rcv': Cross CPU Helper Packets Received; 'cross-cpu-bad-l3': Cross CPU Unsupported L3; 'cross-cpu-bad-l4': Cross CPU Unsupported L4; 'cross-cpu-no-session': Cross CPU no Session Found; 'cross-cpu-helper-deleted': Cross CPU Helper Session Deleted; 'cross-cpu-helper-fixed-nat-lid-standby': Cross CPU Helper Fixed NAT LID Standby; 'cross-cpu-helper-cpu-mismatch': Cross CPU Helper CPU Mismatch; 'cross-cpu-sent': Cross CPU Helper Packets Sent; 'config-not-found': Fixed NAT Config not Found; 'fullcone-in-del-q': Full-Cone Session in Delete Queue; 'fullcone-overflow': Full-Cone Session Conn-Count Overflow; 'fullcone-inbound-idx-mismatch': Full-Cone Session Fixed NAT LID mismatch; 'fullcone-retry-lookup': Full-cone session retry look-up; 'fullcone-not-found': Full-cone session not found; 'fullcone-overflow-eim': Full-cone EIM Overflow; 'fullcone-overflow-eif': Full-cone EIF Overflow; 'ha-config-mismatch': HA Fixed NAT Config Mismatch; 'ha-user-quota-exceeded': HA User Quota Exceeded; 'ha-fullcone-mismatch': HA Full-Cone Mismatch; 'ha-dnat-mismatch': HA Destination NAT Config Mismatch; 'ha-nat-port-unavailable': HA NAT Port Unavailable; 'ha-fullcone-failure': HA Full-Cone Failure; 'ha-endpoint-indep-map-match': HA Endpoint-Independent-Mapping Match; 'udp-alg-eim-mismatch': UDP ALG Endpoint-Independent Mapping Mismatch; 'udp-alg-no-nat-ip': UDP ALG User-Quota Unknown NAT IP; 'udp-alg-alloc-failure': UDP ALG Port Allocation Failure; 'mtu-exceeded': Packet Exceeded MTU; 'frag': Fragmented Packets; 'frag-icmp': ICMP Packet Too Big Sent; 'periodic-log-msg-alloc': Fixed NAT Periodic Log Msg Allocated; 'periodic-log-msg-free': Fixed NAT Periodic Log Msg Freed; 'disable-log-msg-alloc': Fixed NAT Disable Log Msg Allocated; 'disable-log-msg-free': Fixed NAT Disable Log Msg Freed; 'sip-alg-reuse-contact-fullcone': SIP ALG Reuse Contact Full-cone Session; 'sip-alg-contact-fullcone-mismatch': SIP ALG Contact Full-cone Session Mismatch; 'sip-alg-create-contact-fullcone-failure': SIP ALG Create Contact Full-cone Session Failure; 'sip-alg-single-rtp-fullcone': SIP ALG Single RTP Full-cone Found; 'sip-alg-rtcp-fullcone-mismatch': SIP ALG RTCP Full-cone NAT Port Mismatch; 'sip-alg-reuse-rtp-rtcp-fullcone': SIP ALG Reuse RTP/RTCP Full-cone Session; 'sip-alg-single-rtcp-fullcone': SIP ALG Single RTCP Full-cone Found; 'sip-alg-create-rtp-fullcone-failure': SIP ALG Create RTP Full-cone Session Failure; 'sip-alg-create-rtcp-fullcone-failure': SIP ALG Create RTCP Full-cone Session Failure; 'icmp-out-of-state-uqe-admin-filtered-sent': Total User Quota Exceeded ICMP admin filtered sent; 'icmp-out-of-state-uqe-host-unreachable-sent': Total User Quota Exceeded ICMP host unreachable sent; 'icmp-out-of-state-uqe-dropped': Total User Queue Exceeded ICMP notification dropped; 'nat-esp-ip-conflicts': Fixed NAT ESP IP Conflicts; 'total-tcp-allocated-shadow': Total TCP Ports Allocated; 'total-tcp-freed-shadow': Total TCP Ports Freed; 'total-udp-allocated-shadow': Total UDP Ports Allocated; 'total-udp-freed-shadow': Total UDP Ports Freed; 'total-icmp-allocated-shadow': Total ICMP Ports Allocated; 'total-icmp-freed-shadow': Total ICMP Ports Freed; 'nat44-data-session-created-shadow': NAT44 Data Sessions Created; 'nat44-data-session-freed-shadow': NAT44 Data Sessions Freed; 'nat64-data-session-created-shadow': NAT64 Data Sessions Created; 'nat64-data-session-freed-shadow': NAT64 Data Sessions Freed; 'dslite-data-session-created-shadow': DS-Lite Data Sessions Created; 'dslite-data-session-freed-shadow': DS-Lite Data Sessions Freed; 'nat44-tcp-fullcone-created-shadow': NAT44 TCP Full-Cone Created; 'nat44-tcp-fullcone-freed-shadow': NAT44 TCP Full-Cone Freed; 'nat44-udp-fullcone-created-shadow': NAT44 UDP Full-Cone Created; 'nat44-udp-fullcone-freed-shadow': NAT44 UDP Full-Cone Freed; 'nat44-udp-alg-fullcone-created-shadow': NAT44 UDP ALG Full-Cone Created;

Type: string

Supported Values: all, total-nat-in-use, total-tcp-allocated, total-tcp-freed, total-udp-allocated, total-udp-freed, total-icmp-allocated, total-icmp-freed, nat44-data-session-created, nat44-data-session-freed, nat64-data-session-created, nat64-data-session-freed, dslite-data-session-created, dslite-data-session-freed, nat-port-unavailable-tcp, nat-port-unavailable-udp, nat-port-unavailable-icmp, session-user-quota-exceeded, nat44-tcp-fullcone-created, nat44-tcp-fullcone-freed, nat44-udp-fullcone-created, nat44-udp-fullcone-freed, nat44-udp-alg-fullcone-created, nat44-udp-alg-fullcone-freed, nat64-tcp-fullcone-created, nat64-tcp-fullcone-freed, nat64-udp-fullcone-created, nat64-udp-fullcone-freed, nat64-udp-alg-fullcone-created, nat64-udp-alg-fullcone-freed, dslite-tcp-fullcone-created, dslite-tcp-fullcone-freed, dslite-udp-fullcone-created, dslite-udp-fullcone-freed, dslite-udp-alg-fullcone-created, dslite-udp-alg-fullcone-freed, fullcone-failure, nat44-eim-match, nat64-eim-match, dslite-eim-match, nat44-eif-match, nat64-eif-match, dslite-eif-match, nat44-inbound-filtered, nat64-inbound-filtered, dslite-inbound-filtered, nat44-eif-limit-exceeded, nat64-eif-limit-exceeded, dslite-eif-limit-exceeded, nat44-hairpin, nat64-hairpin, dslite-hairpin, standby-drop, fixed-nat-fullcone-self-hairpinning-drop, sixrd-drop, dest-rlist-drop, dest-rlist-pass-through, dest-rlist-snat-drop, cross-cpu-helper-created, cross-cpu-helper-free-retry-lookup, cross-cpu-helper-free-not-found, cross-cpu-helper-free, cross-cpu-rcv, cross-cpu-bad-l3, cross-cpu-bad-l4, cross-cpu-no-session, cross-cpu-helper-deleted, cross-cpu-helper-fixed-nat-lid-standby, cross-cpu-helper-cpu-mismatch, cross-cpu-sent, config-not-found, fullcone-in-del-q, fullcone-overflow, fullcone-inbound-idx-mismatch, fullcone-retry-lookup, fullcone-not-found, fullcone-overflow-eim, fullcone-overflow-eif, ha-config-mismatch, ha-user-quota-exceeded, ha-fullcone-mismatch, ha-dnat-mismatch, ha-nat-port-unavailable, ha-fullcone-failure, ha-endpoint-indep-map-match, udp-alg-eim-mismatch, udp-alg-no-nat-ip, udp-alg-alloc-failure, mtu-exceeded, frag, frag-icmp, periodic-log-msg-alloc, periodic-log-msg-free, disable-log-msg-alloc, disable-log-msg-free, sip-alg-reuse-contact-fullcone, sip-alg-contact-fullcone-mismatch, sip-alg-create-contact-fullcone-failure, sip-alg-single-rtp-fullcone, sip-alg-rtcp-fullcone-mismatch, sip-alg-reuse-rtp-rtcp-fullcone, sip-alg-single-rtcp-fullcone, sip-alg-create-rtp-fullcone-failure, sip-alg-create-rtcp-fullcone-failure, icmp-out-of-state-uqe-admin-filtered-sent, icmp-out-of-state-uqe-host-unreachable-sent, icmp-out-of-state-uqe-dropped, nat-esp-ip-conflicts, total-tcp-allocated-shadow, total-tcp-freed-shadow, total-udp-allocated-shadow, total-udp-freed-shadow, total-icmp-allocated-shadow, total-icmp-freed-shadow, nat44-data-session-created-shadow, nat44-data-session-freed-shadow, nat64-data-session-created-shadow, nat64-data-session-freed-shadow, dslite-data-session-created-shadow, dslite-data-session-freed-shadow, nat44-tcp-fullcone-created-shadow, nat44-tcp-fullcone-freed-shadow, nat44-udp-fullcone-created-shadow, nat44-udp-fullcone-freed-shadow, nat44-udp-alg-fullcone-created-shadow

counters2

Description 'nat44-udp-alg-fullcone-freed-shadow': NAT44 UDP ALG Full-Cone Freed; 'nat64-tcp-fullcone-created-shadow': NAT64 TCP Full-Cone Created; 'nat64-tcp-fullcone-freed-shadow': NAT64 TCP Full-Cone Freed; 'nat64-udp-fullcone-created-shadow': NAT64 UDP Full-Cone Created; 'nat64-udp-fullcone-freed-shadow': NAT64 UDP Full-Cone Freed; 'nat64-udp-alg-fullcone-created-shadow': NAT64 UDP ALG Full-Cone Created; 'nat64-udp-alg-fullcone-freed-shadow': NAT64 UDP ALG Full-Cone Freed; 'dslite-tcp-fullcone-created-shadow': DS-Lite TCP Full-Cone Created; 'dslite-tcp-fullcone-freed-shadow': DS-Lite TCP Full-Cone Freed; 'dslite-udp-fullcone-created-shadow': DS-Lite UDP Full-Cone Created; 'dslite-udp-fullcone-freed-shadow': DS-Lite UDP Full-Cone Freed; 'dslite-udp-alg-fullcone-created-shadow': DS-Lite UDP ALG Full-Cone Created; 'dslite-udp-alg-fullcone-freed-shadow': DS-Lite UDP ALG Full-Cone Freed; 'h323-alg-reuse-fullcone': H323 ALG Reuse Full-cone Session; 'h323-alg-fullcone-mismatch': H323 ALG Full-cone Session Mismatch; 'h323-alg-create-fullcone-failure': H323 ALG Create Full-cone Session Failure; 'h323-alg-single-rtp-fullcone': H323 ALG Single RTP

Full-cone Found; 'h323-alg-rtcp-fullcone-mismatch': H323 ALG RTCP Full-cone NAT Port Mismatch; 'h323-alg-reuse-rtp-rtcp-fullcone': H323 ALG Reuse RTP/RTCP Full-cone Session; 'h323-alg-single-rtcp-fullcone': H323 ALG Single RTCP Full-cone Found; 'h323-alg-create-rtp-fullcone-failure': H323 ALG Create RTP Full-cone Session Failure; 'h323-alg-create-rtcp-fullcone-failure': H323 ALG Create RTCP Full-cone Session Failure; 'mgcp-alg-reuse-fullcone': MGCP ALG Reuse Full-cone Session; 'mgcp-alg-fullcone-mismatch': MGCP ALG Full-cone Session Mismatch; 'mgcp-alg-create-fullcone-failure': MGCP ALG Create Full-cone Session Failure; 'mgcp-alg-single-rtp-fullcone': MGCP ALG Single RTP Full-cone Found; 'mgcp-alg-rtcp-fullcone-mismatch': MGCP ALG RTCP Full-cone NAT Port Mismatch; 'mgcp-alg-reuse-rtp-rtcp-fullcone': MGCP ALG Reuse RTP/RTCP Full-cone Session; 'mgcp-alg-single-rtcp-fullcone': MGCP ALG Single RTCP Full-cone Found; 'mgcp-alg-create-rtp-fullcone-failure': MGCP ALG Create RTP Full-cone Session Failure; 'mgcp-alg-create-rtcp-fullcone-failure': MGCP ALG Create RTCP Full-cone Session Failure; 'user-unusable-drop': Fixed NAT User Unusable Drop; 'ipv4-user-unusable': Fixed NAT IPv4 User Marked Unusable; 'ipv6-user-unusable': Fixed NAT IPv6 User Marked Unusable; 'ipd-disabled': Fixed NAT IPD disabled; 'dslite_tunnel_frag': IPv4 Fragment DS-Lite Packet; 'total-tcp-overload-acquired': Total TCP ports acquired for port overloading; 'total-udp-overload-acquired': Total UDP ports acquired for port overloading; 'total-tcp-overload-released': Total TCP ports released from port overloading; 'total-udp-overload-released': Total UDP ports released from port overloading; 'total-tcp-alloc-overload': Total TCP ports allocated via overload; 'total-udp-alloc-overload': Total UDP ports allocated via overload; 'total-tcp-free-overload': Total TCP ports freed via overload; 'total-udp-free-overload': Total UDP ports freed via overload; 'port-overload-smp-delete-scheduled': Port overload SMP conn delete scheduled; 'port-overload-smp-mem-allocated': Port overload SMP mem allocated; 'port-overload-out-of-memory': Port overload out of memory; 'port-overload-smp-free': Port overload SMP conn free; 'port-overload-smp-free-no-lid': Port overload SMP conn free no lid; 'port-overload-free-smp-not-found': Port overload free SMP conn not found; 'port-overload-failed': Port overload failed; 'total-tcp-overload-acquired-shadow': Total TCP ports acquired for port overloading shadow; 'total-udp-overload-acquired-shadow': Total UDP ports acquired for port overloading shadow; 'total-tcp-overload-released-shadow': Total TCP ports released from port overloading shadow; 'total-udp-overload-released-shadow': Total UDP ports released from port overloading shadow; 'total-tcp-alloc-overload-shadow': Total TCP allocated via overload shadow; 'total-udp-alloc-overload-shadow': Total UDP allocated via overload shadow; 'total-tcp-free-overload-shadow': Total TCP freed via overload shadow; 'total-udp-free-overload-shadow': Total UDP freed via overload shadow; 'ha-session-user-quota-exceeded': HA Sessions User Quota Exceeded; 'tcp-user-quota-exceeded': TCP User Quota Exceeded; 'udp-user-quota-exceeded': UDP User Quota Exceeded; 'icmp-user-quota-exceeded': ICMP User Quota Exceeded; 'ha-tcp-user-quota-exceeded': HA TCP User Quota Exceeded; 'ha-udp-user-quota-exceeded': HA UDP User Quota Exceeded; 'ha-icmp-user-quota-exceeded': HA ICMP User Quota Exceeded; 'ha-nat-port-unavailable-tcp': HA TCP NAT Port Unavailable; 'ha-nat-port-unavailable-udp': HA UDP NAT Port Unavailable; 'ha-nat-port-unavailable-icmp': HA ICMP NAT Port Unavailable; 'fnat44_fwd_ingress_packets_tcp': Fixed NAT44 Forward Ingress Packets TCP; 'fnat44_fwd_egress_packets_tcp': Fixed NAT44 Forward Egress Packets TCP; 'fnat44_rev_ingress_packets_tcp': Fixed NAT44 Reverse Ingress Packets TCP; 'fnat44_rev_egress_packets_tcp': Fixed NAT44 Reverse Egress Packets TCP; 'fnat44_fwd_ingress_bytes_tcp': Fixed NAT44 Forward Ingress Bytes TCP; 'fnat44_fwd_egress_bytes_tcp': Fixed NAT44 Forward Egress Bytes TCP; 'fnat44_rev_ingress_bytes_tcp': Fixed NAT44 Reverse Ingress Bytes TCP; 'fnat44_rev_egress_bytes_tcp': Fixed NAT44 Reverse Egress Bytes TCP; 'fnat44_fwd_ingress_packets_udp': Fixed NAT44 Forward Ingress Packets UDP; 'fnat44_fwd_egress_packets_udp': Fixed NAT44 Forward Egress Packets UDP; 'fnat44_rev_ingress_packets_udp': Fixed NAT44 Reverse Ingress Packets UDP; 'fnat44_rev_egress_packets_udp': Fixed NAT44 Re-

verse Egress Packets UDP; 'fnat44_fwd_ingress_bytes_udp': Fixed NAT44 Forward Ingress Bytes UDP; 'fnat44_fwd_egress_bytes_udp': Fixed NAT44 Forward Egress Bytes UDP; 'fnat44_rev_ingress_bytes_udp': Fixed NAT44 Reverse Ingress Bytes UDP; 'fnat44_rev_egress_bytes_udp': Fixed NAT44 Reverse Egress Bytes UDP; 'fnat44_fwd_ingress_packets_icmp': Fixed NAT44 Forward Ingress Packets ICMP; 'fnat44_fwd_egress_packets_icmp': Fixed NAT44 Forward Egress Packets ICMP; 'fnat44_rev_ingress_packets_icmp': Fixed NAT44 Reverse Ingress Packets ICMP; 'fnat44_rev_egress_packets_icmp': Fixed NAT44 Reverse Egress Packets ICMP; 'fnat44_fwd_ingress_bytes_icmp': Fixed NAT44 Forward Ingress Bytes ICMP; 'fnat44_fwd_egress_bytes_icmp': Fixed NAT44 Forward Egress Bytes ICMP; 'fnat44_rev_ingress_bytes_icmp': Fixed NAT44 Reverse Ingress Bytes ICMP; 'fnat44_rev_egress_bytes_icmp': Fixed NAT44 Reverse Egress Bytes ICMP; 'fnat44_fwd_ingress_packets_others': Fixed NAT44 Forward Ingress Packets OTHERS; 'fnat44_fwd_egress_packets_others': Fixed NAT44 Forward Egress Packets OTHERS; 'fnat44_rev_ingress_packets_others': Fixed NAT44 Reverse Ingress Packets OTHERS; 'fnat44_rev_egress_packets_others': Fixed NAT44 Reverse Egress Packets OTHERS; 'fnat44_fwd_ingress_bytes_others': Fixed NAT44 Forward Ingress Bytes OTHERS; 'fnat44_fwd_egress_bytes_others': Fixed NAT44 Forward Egress Bytes OTHERS; 'fnat44_rev_ingress_bytes_others': Fixed NAT44 Reverse Ingress Bytes OTHERS; 'fnat44_rev_egress_bytes_others': Fixed NAT44 Reverse Egress Bytes OTHERS; 'fnat44_fwd_ingress_pkt_size_range1': Fixed NAT44 Forward Ingress Packet size between 0 and 200; 'fnat44_fwd_ingress_pkt_size_range2': Fixed NAT44 Forward Ingress Packet size between 201 and 800; 'fnat44_fwd_ingress_pkt_size_range3': Fixed NAT44 Forward Ingress Packet size between 801 and 1550; 'fnat44_fwd_ingress_pkt_size_range4': Fixed NAT44 Forward Ingress Packet size between 1551 and 9000; 'fnat44_fwd_egress_pkt_size_range1': Fixed NAT44 Forward Egress Packet size between 0 and 200;

Type: string

Supported Values: nat44-udp-alg-fullcone-freed-shadow, nat64-tcp-fullcone-created-shadow, nat64-tcp-fullcone-freed-shadow, nat64-udp-fullcone-created-shadow, nat64-udp-fullcone-freed-shadow, nat64-udp-alg-fullcone-created-shadow, nat64-udp-alg-fullcone-freed-shadow, dslite-tcp-fullcone-created-shadow, dslite-tcp-fullcone-freed-shadow, dslite-udp-fullcone-created-shadow, dslite-udp-fullcone-freed-shadow, dslite-udp-alg-fullcone-created-shadow, dslite-udp-alg-fullcone-freed-shadow, h323-alg-reuse-fullcone, h323-alg-fullcone-mismatch, h323-alg-create-fullcone-failure, h323-alg-single-rtp-fullcone, h323-alg-rtcp-fullcone-mismatch, h323-alg-reuse-rtp-rtcp-fullcone, h323-alg-single-rtcp-fullcone, h323-alg-create-rtp-fullcone-failure, h323-alg-create-rtcp-fullcone-failure, mgcp-alg-reuse-fullcone, mgcp-alg-fullcone-mismatch, mgcp-alg-create-fullcone-failure, mgcp-alg-single-rtp-fullcone, mgcp-alg-rtcp-fullcone-mismatch, mgcp-alg-reuse-rtp-rtcp-fullcone, mgcp-alg-single-rtcp-fullcone, mgcp-alg-create-rtp-fullcone-failure, mgcp-alg-create-rtcp-fullcone-failure, user-unusable-drop, ipv4-user-unusable, ipv6-user-unusable, ipd-disabled, dslite_tunnel_frag, total-tcp-overload-acquired, total-udp-overload-acquired, total-tcp-overload-released, total-udp-overload-released, total-tcp-alloc-overload, total-udp-alloc-overload, total-tcp-free-overload, total-udp-free-overload, port-overload-smp-delete-scheduled, port-overload-smp-mem-allocated, port-overload-out-of-memory, port-overload-smp-free, port-overload-smp-free-no-lid, port-overload-free-smp-not-found, port-overload-failed, total-tcp-overload-acquired-shadow, total-udp-overload-acquired-shadow, total-tcp-overload-released-shadow, total-udp-overload-released-shadow, total-tcp-alloc-overload-shadow, total-udp-alloc-overload-shadow, total-tcp-free-overload-shadow, total-udp-free-overload-shadow, ha-session-user-quota-exceeded, tcp-user-quota-exceeded, udp-user-quota-exceeded, icmp-user-quota-exceeded, ha-tcp-user-quota-exceeded, ha-udp-user-quota-exceeded, ha-icmp-user-quota-exceeded, ha-nat-port-unavailable-tcp, ha-nat-port-unavailable-udp, ha-nat-port-unavailable-icmp, fnat44_fwd_ingress_packets_tcp, fnat44_fwd_egress_packets_tcp, fnat44_rev_ingress_packets_tcp, fnat44_rev_egress_packets_tcp,

fnat44_fwd_ingress_bytes_tcp, fnat44_fwd_egress_bytes_tcp, fnat44_rev_ingress_bytes_tcp, fnat44_rev_egress_bytes_tcp, fnat44_fwd_ingress_packets_udp, fnat44_fwd_egress_packets_udp, fnat44_rev_ingress_packets_udp, fnat44_rev_egress_packets_udp, fnat44_fwd_ingress_bytes_udp, fnat44_fwd_egress_bytes_udp, fnat44_rev_ingress_bytes_udp, fnat44_rev_egress_bytes_udp, fnat44_fwd_ingress_packets_icmp, fnat44_fwd_egress_packets_icmp, fnat44_rev_ingress_packets_icmp, fnat44_rev_egress_packets_icmp, fnat44_fwd_ingress_bytes_icmp, fnat44_fwd_egress_bytes_icmp, fnat44_rev_ingress_bytes_icmp, fnat44_rev_egress_bytes_icmp, fnat44_fwd_ingress_packets_others, fnat44_fwd_egress_packets_others, fnat44_rev_ingress_packets_others, fnat44_rev_egress_packets_others, fnat44_fwd_ingress_bytes_others, fnat44_fwd_egress_bytes_others, fnat44_rev_ingress_bytes_others, fnat44_rev_egress_bytes_others, fnat44_fwd_ingress_pkt_size_range1, fnat44_fwd_ingress_pkt_size_range2, fnat44_fwd_ingress_pkt_size_range3, fnat44_fwd_ingress_pkt_size_range4, fnat44_fwd_egress_pkt_size_range1

counters3

Description 'fnat44_fwd_egress_pkt_size_range2': Fixed NAT44 Forward Egress Packet size between 201 and 800; 'fnat44_fwd_egress_pkt_size_range3': Fixed NAT44 Forward Egress Packet size between 801 and 1550; 'fnat44_fwd_egress_pkt_size_range4': Fixed NAT44 Forward Egress Packet size between 1551 and 9000; 'fnat44_rev_ingress_pkt_size_range1': Fixed NAT44 Reverse Ingress Packet size between 0 and 200; 'fnat44_rev_ingress_pkt_size_range2': Fixed NAT44 Reverse Ingress Packet size between 201 and 800; 'fnat44_rev_ingress_pkt_size_range3': Fixed NAT44 Reverse Ingress Packet size between 801 and 1550; 'fnat44_rev_ingress_pkt_size_range4': Fixed NAT44 Reverse Ingress Packet size between 1551 and 9000; 'fnat44_rev_egress_pkt_size_range1': Fixed NAT44 Reverse Egress Packet size between 0 and 200; 'fnat44_rev_egress_pkt_size_range2': Fixed NAT44 Reverse Egress Packet size between 201 and 800; 'fnat44_rev_egress_pkt_size_range3': Fixed NAT44 Reverse Egress Packet size between 801 and 1550; 'fnat44_rev_egress_pkt_size_range4': Fixed NAT44 Reverse Egress Packet size between 1551 and 9000; 'fnat64_fwd_ingress_packets_tcp': Fixed NAT64 Forward Ingress Packets TCP; 'fnat64_fwd_egress_packets_tcp': Fixed NAT64 Forward Egress Packets TCP; 'fnat64_rev_ingress_packets_tcp': Fixed NAT64 Reverse Ingress Packets TCP; 'fnat64_rev_egress_packets_tcp': Fixed NAT64 Reverse Egress Packets TCP; 'fnat64_fwd_ingress_bytes_tcp': Fixed NAT64 Forward Ingress Bytes TCP; 'fnat64_fwd_egress_bytes_tcp': Fixed NAT64 Forward Egress Bytes TCP; 'fnat64_rev_ingress_bytes_tcp': Fixed NAT64 Reverse Ingress Bytes TCP; 'fnat64_rev_egress_bytes_tcp': Fixed NAT64 Reverse Egress Bytes TCP; 'fnat64_fwd_ingress_packets_udp': Fixed NAT64 Forward Ingress Packets UDP; 'fnat64_fwd_egress_packets_udp': Fixed NAT64 Forward Egress Packets UDP; 'fnat64_rev_ingress_packets_udp': Fixed NAT64 Reverse Ingress Packets UDP; 'fnat64_rev_egress_packets_udp': Fixed NAT64 Reverse Egress Packets UDP; 'fnat64_fwd_ingress_bytes_udp': Fixed NAT64 Forward Ingress Bytes UDP; 'fnat64_fwd_egress_bytes_udp': Fixed NAT64 Forward Egress Bytes UDP; 'fnat64_rev_ingress_bytes_udp': Fixed NAT64 Reverse Ingress Bytes UDP; 'fnat64_rev_egress_bytes_udp': Fixed NAT64 Reverse Egress Bytes UDP; 'fnat64_fwd_ingress_packets_icmp': Fixed NAT64 Forward Ingress Packets ICMP; 'fnat64_fwd_egress_packets_icmp': Fixed NAT64 Forward Egress Packets ICMP; 'fnat64_rev_ingress_packets_icmp': Fixed NAT64 Reverse Ingress Packets ICMP; 'fnat64_rev_egress_packets_icmp': Fixed NAT64 Reverse Egress Packets ICMP; 'fnat64_fwd_ingress_bytes_icmp': Fixed NAT64 Forward Ingress Bytes ICMP; 'fnat64_fwd_egress_bytes_icmp': Fixed NAT64 Forward Egress Bytes ICMP; 'fnat64_rev_ingress_bytes_icmp': Fixed NAT64 Reverse Ingress Bytes

ICMP; 'fnat64_rev_egress_bytes_icmp': Fixed NAT64 Reverse Egress Bytes ICMP; 'fnat64_fwd_ingress_packets_others': Fixed NAT64 Forward Ingress Packets OTHERS; 'fnat64_fwd_egress_packets_others': Fixed NAT64 Forward Egress Packets OTHERS; 'fnat64_rev_ingress_packets_others': Fixed NAT64 Reverse Ingress Packets OTHERS; 'fnat64_rev_egress_packets_others': Fixed NAT64 Reverse Egress Packets OTHERS; 'fnat64_fwd_ingress_bytes_others': Fixed NAT64 Forward Ingress Bytes OTHERS; 'fnat64_fwd_egress_bytes_others': Fixed NAT64 Forward Egress Bytes OTHERS; 'fnat64_rev_ingress_bytes_others': Fixed NAT64 Reverse Ingress Bytes OTHERS; 'fnat64_rev_egress_bytes_others': Fixed NAT64 Reverse Egress Bytes OTHERS; 'fnat64_fwd_ingress_pkt_size_range1': Fixed NAT64 Forward Ingress Packet size between 0 and 200; 'fnat64_fwd_ingress_pkt_size_range2': Fixed NAT64 Forward Ingress Packet size between 201 and 800; 'fnat64_fwd_ingress_pkt_size_range3': Fixed NAT64 Forward Ingress Packet size between 801 and 1550; 'fnat64_fwd_ingress_pkt_size_range4': Fixed NAT64 Forward Ingress Packet size between 1551 and 9000; 'fnat64_fwd_egress_pkt_size_range1': Fixed NAT64 Forward Egress Packet size between 0 and 200; 'fnat64_fwd_egress_pkt_size_range2': Fixed NAT64 Forward Egress Packet size between 201 and 800; 'fnat64_fwd_egress_pkt_size_range3': Fixed NAT64 Forward Egress Packet size between 801 and 1550; 'fnat64_fwd_egress_pkt_size_range4': Fixed NAT64 Forward Egress Packet size between 1551 and 9000; 'fnat64_rev_ingress_pkt_size_range1': Fixed NAT64 Reverse Ingress Packet size between 0 and 200; 'fnat64_rev_ingress_pkt_size_range2': Fixed NAT64 Reverse Ingress Packet size between 201 and 800; 'fnat64_rev_ingress_pkt_size_range3': Fixed NAT64 Reverse Ingress Packet size between 801 and 1550; 'fnat64_rev_ingress_pkt_size_range4': Fixed NAT64 Reverse Ingress Packet size between 1551 and 9000; 'fnat64_rev_egress_pkt_size_range1': Fixed NAT64 Reverse Egress Packet size between 0 and 200; 'fnat64_rev_egress_pkt_size_range2': Fixed NAT64 Reverse Egress Packet size between 201 and 800; 'fnat64_rev_egress_pkt_size_range3': Fixed NAT64 Reverse Egress Packet size between 801 and 1550; 'fnat64_rev_egress_pkt_size_range4': Fixed NAT64 Reverse Egress Packet size between 1551 and 9000; 'fnatdslite_fwd_ingress_packets_tcp': Fixed DS-Lite Forward Ingress Packets TCP; 'fnatdslite_fwd_egress_packets_tcp': Fixed DS-Lite Forward Egress Packets TCP; 'fnatdslite_rev_ingress_packets_tcp': Fixed DS-Lite Reverse Ingress Packets TCP; 'fnatdslite_rev_egress_packets_tcp': Fixed DS-Lite Reverse Egress Packets TCP; 'fnatdslite_fwd_ingress_bytes_tcp': Fixed DS-Lite Forward Ingress Bytes TCP; 'fnatdslite_fwd_egress_bytes_tcp': Fixed DS-Lite Forward Egress Bytes TCP; 'fnatdslite_rev_ingress_bytes_tcp': Fixed DS-Lite Reverse Ingress Bytes TCP; 'fnatdslite_rev_egress_bytes_tcp': Fixed DS-Lite Reverse Egress Bytes TCP; 'fnatdslite_fwd_ingress_packets_udp': Fixed DS-Lite Forward Ingress Packets UDP; 'fnatdslite_fwd_egress_packets_udp': Fixed DS-Lite Forward Egress Packets UDP; 'fnatdslite_rev_ingress_packets_udp': Fixed DS-Lite Reverse Ingress Packets UDP; 'fnatdslite_rev_egress_packets_udp': Fixed DS-Lite Reverse Egress Packets UDP; 'fnatdslite_fwd_ingress_bytes_udp': Fixed DS-Lite Forward Ingress Bytes UDP; 'fnatdslite_fwd_egress_bytes_udp': Fixed DS-Lite Forward Egress Bytes UDP; 'fnatdslite_rev_ingress_bytes_udp': Fixed DS-Lite Reverse Ingress Bytes UDP; 'fnatdslite_rev_egress_bytes_udp': Fixed DS-Lite Reverse Egress Bytes UDP; 'fnatdslite_fwd_ingress_packets_icmp': Fixed DS-Lite Forward Ingress Packets ICMP; 'fnatdslite_fwd_egress_packets_icmp': Fixed DS-Lite Forward Egress Packets ICMP; 'fnatdslite_rev_ingress_packets_icmp': Fixed DS-Lite Reverse Ingress Packets ICMP; 'fnatdslite_rev_egress_packets_icmp': Fixed DS-Lite Reverse Egress Packets ICMP; 'fnatdslite_fwd_ingress_bytes_icmp': Fixed DS-Lite Forward Ingress Bytes ICMP; 'fnatdslite_fwd_egress_bytes_icmp': Fixed DS-Lite Forward Egress Bytes ICMP; 'fnatdslite_rev_ingress_bytes_icmp': Fixed DS-Lite Reverse Ingress Bytes ICMP; 'fnatdslite_rev_egress_bytes_icmp': Fixed DS-Lite Reverse Egress Bytes ICMP; 'fnatdslite_fwd_ingress_packets_others': Fixed DS-Lite Forward Ingress Packets OTHERS; 'fnatdslite_fwd_egress_packets_others': Fixed DS-Lite Forward Egress Packets OTHERS; 'fnatdslite_rev_ingress_packets_others': Fixed DS-Lite Reverse Ingress Packets OTHERS;

'fnatdslite_rev_egress_packets_others': Fixed DS-Lite Reverse Egress Packets OTHERS; 'fnatdslite_fwd_ingress_bytes_others': Fixed DS-Lite Forward Ingress Bytes OTHERS; 'fnatdslite_fwd_egress_bytes_others': Fixed DS-Lite Forward Egress Bytes OTHERS; 'fnatdslite_rev_ingress_bytes_others': Fixed DS-Lite Reverse Ingress Bytes OTHERS; 'fnatdslite_rev_egress_bytes_others': Fixed DS-Lite Reverse Egress Bytes OTHERS; 'fnatdslite_fwd_ingress_pkt_size_range1': Fixed DS-Lite Forward Ingress Packet size between 0 and 200;

Type: string

Supported Values: fnat44_fwd_egress_pkt_size_range2, fnat44_fwd_egress_pkt_size_range3, fnat44_fwd_egress_pkt_size_range4, fnat44_rev_ingress_pkt_size_range1, fnat44_rev_ingress_pkt_size_range2, fnat44_rev_ingress_pkt_size_range3, fnat44_rev_ingress_pkt_size_range4, fnat44_rev_egress_pkt_size_range1, fnat44_rev_egress_pkt_size_range2, fnat44_rev_egress_pkt_size_range3, fnat44_rev_egress_pkt_size_range4, fnat64_fwd_ingress_packets_tcp, fnat64_fwd_egress_packets_tcp, fnat64_rev_ingress_packets_tcp, fnat64_rev_egress_packets_tcp, fnat64_fwd_ingress_bytes_tcp, fnat64_fwd_egress_bytes_tcp, fnat64_rev_ingress_bytes_tcp, fnat64_rev_egress_bytes_tcp, fnat64_fwd_ingress_packets_udp, fnat64_fwd_egress_packets_udp, fnat64_rev_ingress_packets_udp, fnat64_rev_egress_packets_udp, fnat64_fwd_ingress_bytes_udp, fnat64_fwd_egress_bytes_udp, fnat64_rev_ingress_bytes_udp, fnat64_rev_egress_bytes_udp, fnat64_fwd_ingress_packets_icmp, fnat64_fwd_egress_packets_icmp, fnat64_rev_ingress_packets_icmp, fnat64_rev_egress_packets_icmp, fnat64_fwd_ingress_bytes_icmp, fnat64_fwd_egress_bytes_icmp, fnat64_rev_ingress_bytes_icmp, fnat64_rev_egress_bytes_icmp, fnat64_fwd_ingress_packets_others, fnat64_fwd_egress_packets_others, fnat64_rev_ingress_packets_others, fnat64_rev_egress_packets_others, fnat64_fwd_ingress_bytes_others, fnat64_fwd_egress_bytes_others, fnat64_rev_ingress_bytes_others, fnat64_rev_egress_bytes_others, fnat64_fwd_ingress_pkt_size_range1, fnat64_fwd_ingress_pkt_size_range2, fnat64_fwd_ingress_pkt_size_range3, fnat64_fwd_ingress_pkt_size_range4, fnat64_fwd_egress_pkt_size_range1, fnat64_fwd_egress_pkt_size_range2, fnat64_fwd_egress_pkt_size_range3, fnat64_fwd_egress_pkt_size_range4, fnat64_rev_ingress_pkt_size_range1, fnat64_rev_ingress_pkt_size_range2, fnat64_rev_ingress_pkt_size_range3, fnat64_rev_ingress_pkt_size_range4, fnat64_rev_egress_pkt_size_range1, fnat64_rev_egress_pkt_size_range2, fnat64_rev_egress_pkt_size_range3, fnat64_rev_egress_pkt_size_range4, fnatdslite_fwd_ingress_packets_tcp, fnatdslite_fwd_egress_packets_tcp, fnatdslite_rev_ingress_packets_tcp, fnatdslite_rev_egress_packets_tcp, fnatdslite_fwd_ingress_bytes_tcp, fnatdslite_fwd_egress_bytes_tcp, fnatdslite_rev_ingress_bytes_tcp, fnatdslite_rev_egress_bytes_tcp, fnatdslite_fwd_ingress_packets_udp, fnatdslite_fwd_egress_packets_udp, fnatdslite_rev_ingress_packets_udp, fnatdslite_rev_egress_packets_udp, fnatdslite_fwd_ingress_bytes_udp, fnatdslite_fwd_egress_bytes_udp, fnatdslite_rev_ingress_bytes_udp, fnatdslite_rev_egress_bytes_udp, fnatdslite_fwd_ingress_packets_icmp, fnatdslite_fwd_egress_packets_icmp, fnatdslite_rev_ingress_packets_icmp, fnatdslite_rev_egress_packets_icmp, fnatdslite_fwd_ingress_bytes_icmp, fnatdslite_fwd_egress_bytes_icmp, fnatdslite_rev_ingress_bytes_icmp, fnatdslite_rev_egress_bytes_icmp, fnatdslite_fwd_ingress_packets_others, fnatdslite_fwd_egress_packets_others, fnatdslite_rev_ingress_packets_others, fnatdslite_rev_egress_packets_others, fnatdslite_fwd_ingress_bytes_others, fnatdslite_fwd_egress_bytes_others, fnatdslite_rev_ingress_bytes_others, fnatdslite_rev_egress_bytes_others, fnatd-

slite_fwd_ingress_pkt_size_range1

counters4

Description 'fnatdslite_fwd_ingress_pkt_size_range2': Fixed DS-Lite Forward Ingress Packet size between 201 and 800; 'fnatdslite_fwd_ingress_pkt_size_range3': Fixed DS-Lite Forward Ingress Packet size between 801 and 1550; 'fnatdslite_fwd_ingress_pkt_size_range4': Fixed DS-Lite Forward Ingress Packet size between 1551 and 9000; 'fnatdslite_fwd_egress_pkt_size_range1': Fixed DS-Lite Forward Egress Packet size between 0 and 200; 'fnatdslite_fwd_egress_pkt_size_range2': Fixed DS-Lite Forward Egress Packet size between 201 and 800; 'fnatdslite_fwd_egress_pkt_size_range3': Fixed DS-Lite Forward Egress Packet size between 801 and 1550; 'fnatdslite_fwd_egress_pkt_size_range4': Fixed DS-Lite Forward Egress Packet size between 1551 and 9000; 'fnatdslite_rev_ingress_pkt_size_range1': Fixed DS-Lite Reverse Ingress Packet size between 0 and 200; 'fnatdslite_rev_ingress_pkt_size_range2': Fixed DS-Lite Reverse Ingress Packet size between 201 and 800; 'fnatdslite_rev_ingress_pkt_size_range3': Fixed DS-Lite Reverse Ingress Packet size between 801 and 1550; 'fnatdslite_rev_ingress_pkt_size_range4': Fixed DS-Lite Reverse Ingress Packet size between 1551 and 9000; 'fnatdslite_rev_egress_pkt_size_range1': Fixed DS-Lite Reverse Egress Packet size between 0 and 200; 'fnatdslite_rev_egress_pkt_size_range2': Fixed DS-Lite Reverse Egress Packet size between 201 and 800; 'fnatdslite_rev_egress_pkt_size_range3': Fixed DS-Lite Reverse Egress Packet size between 801 and 1550; 'fnatdslite_rev_egress_pkt_size_range4': Fixed DS-Lite Reverse Egress Packet size between 1551 and 9000; 'active-subscriber-added': Active Subscriber Added; 'active-subscriber-removed': Active Subscriber Removed; 'config-not-found-in-ctx': Fixed NAT Config Pointer Not Found in MY_CTX;

Type: string

Supported Values: fnatdslite_fwd_ingress_pkt_size_range2, fnatdslite_fwd_ingress_pkt_size_range3, fnatdslite_fwd_ingress_pkt_size_range4, fnatdslite_fwd_egress_pkt_size_range1, fnatdslite_fwd_egress_pkt_size_range2, fnatdslite_fwd_egress_pkt_size_range3, fnatdslite_fwd_egress_pkt_size_range4, fnatdslite_rev_ingress_pkt_size_range1, fnatdslite_rev_ingress_pkt_size_range2, fnatdslite_rev_ingress_pkt_size_range3, fnatdslite_rev_ingress_pkt_size_range4, fnatdslite_rev_egress_pkt_size_range1, fnatdslite_rev_egress_pkt_size_range2, fnatdslite_rev_egress_pkt_size_range3, fnatdslite_rev_egress_pkt_size_range4, active-subscriber-added, active-subscriber-removed, config-not-found-in-ctx

fixed-nat_user-quota

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_detail

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_histogram

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_disabled-config

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_hw-accelerate

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_hw-accelerate_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'entry-create': HW Entries Created; 'entry-create-failure': HW Entry Creation Failed; 'entry-create-fail-server-down': HW Entry Creation Failed - server down; 'entry-create-fail-max-entry': HW Entry Creation Failed - max entries exceeded; 'entry-free': HW Entries Freed; 'entry-free-opp-entry': HW Entries Freed - opposite tuple entry aged-out; 'entry-free-no-hw-prog': HW Entry Freed - no HW prog; 'entry-free-no-conn': HW Entry Freed - no matched conn; 'entry-free-no-sw-entry': HW Entry Freed - no software entry; 'entry-counter': HW Entries Count; 'entry-age-out': HW Entries Aged Out; 'entry-age-out-idle': HW Entries Aged Out - idle timeout; 'entry-age-out-tcp-fin': HW Entries Aged Out - TCP FIN; 'entry-age-out-tcp-rst': HW Entries Aged Out - TCP RST; 'entry-age-out-invalid-dst': HW Entries Aged Out - invalid dst; 'entry-force-hw-invalidate': HW Entries Force HW Invalidate; 'entry-invalidate-server-down': HW Entries Invalidate due to server down; 'tcam-create': TCAM Flows Created; 'tcam-free': TCAM Flows Freed; 'tcam-counter': TCAM Flow Count;

Type: string

Supported Values: all, entry-create, entry-create-failure, entry-create-fail-server-down, entry-create-fail-max-entry, entry-free, entry-free-opp-entry, entry-free-no-hw-prog, entry-free-no-conn, entry-free-no-sw-entry, entry-counter, entry-age-out, entry-age-out-idle, entry-age-out-tcp-fin, entry-age-out-tcp-rst, entry-age-out-invalid-dst, entry-force-hw-invalidate, entry-invalidate-server-down, tcam-create, tcam-free, tcam-counter

fixed-nat_disable

Specification	Value
Type	*object*

clear-session

Description Clear all sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

inside-end-v4address

Description IPv4 Inside User End Address

Type: string

Format: ipv4-address

inside-end-v6address

Description IPv6 Inside User End Address

Type: string

Format: ipv6-address

inside-start-v4address

Description IPv4 Inside User Start Address

Type: string

Format: ipv4-address

inside-start-v6address

Description IPv6 Inside User Start Address

Type: string

Format: ipv6-address

ip-list

Description Name of IP List used to specify Inside Users

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

v4-netmask

Description IPv4 Netmask

Type: string

Format: ipv4-netmask-brief

v6-netmask

Description Inside User IPv6 Netmask

Type: number

Range: 64-128

fixed-nat_port-mapping-files

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fixed-nat_per-instance

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall

Specification	Value
Type	*object*

alg

Description: alg is a **JSON Block**. Please see below for *stateful-firewall_alg*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg*

endpoint-independent-filtering

Description: endpoint-independent-filtering is a **JSON Block**. Please see below for *stateful-firewall_endpoint-independent-filtering*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering*

global

Description: global is a **JSON Block**. Please see below for *stateful-firewall_global*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/global*

stun-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/stun-timeout/{port}+{port-end}*

tcp

Description: tcp is a **JSON Block**. Please see below for *stateful-firewall_tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *stateful-firewall_udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/udp*

vrid

Description: vrid is a **JSON Block**. Please see below for *stateful-firewall_vrid*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/vrid*

stateful-firewall_udp

Specification	Value
Type	*object*

idle-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout/{port}+{port-end}*

stun-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout/{port}+{port-end}*

stateful-firewall_udp_stun-timeout-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

stun-timeout-val-port-range

Description STUN timeout (default: 2 minutes)

Type: number

Range: 0-60

Default: 2

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_udp_idle-timeout-list

Specification	Value
Type	*list*
Block object keys	

fast

Description Fast aging for idle sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: fast and idle-timeout-val-port-range are mutually exclusive

idle-timeout-val-port-range

Description Idle timeout for IPv4 and IPv6 TCP established sessions (Idle timeout for IPv4 and IPv6 TCP established sessions (default: 300 seconds))

Type: number

Range: 60-15000

Default: 300

Mutual Exclusion: idle-timeout-val-port-range and fast are mutually exclusive

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_vrid

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid-value

Description Set VRRP-A vrid for stateful firewall (IPv4 and IPv6)

Type: number

Range: 1-31

stateful-firewall_alg

Specification	Value
Type	*object*

ftp

Description: ftp is a **JSON Block**. Please see below for *stateful-firewall_alg_ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/ftp*

pptp

Description: pptp is a **JSON Block**. Please see below for *stateful-firewall_alg_pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/pptp*

rtp

Description: rtp is a **JSON Block**. Please see below for *stateful-firewall_alg_rtp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/rtp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *stateful-firewall_alg_rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *stateful-firewall_alg_sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *stateful-firewall_alg_tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/tftp*

stateful-firewall_alg_ftp

Specification	Value
Type	*object*

ftp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_alg_ftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'client-port-request': PORT Requests From Client; 'client-eprt-request': EPRT Requests From Client; 'server-pasv-reply': PASV Replies From Server; 'server-epsv-reply': EPSV Replies From Server; 'port-retransmits': PORT Retransmits; 'pasv-retransmits': PASV Retransmits; 'smp-app-type-mismatch': SMP App Type Mismatch; 'retransmit-sanity-check-failure': Retransmit Sanity Check Failure; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'port-helper-created': PORT Helper Created; 'pasv-helper-created': PASV Helper Created; 'port-helper-acquire-in-del-q': PORT Helper Acquire In Del Queue; 'port-helper-acquire-already-used': PORT Helper Acquire Already Used; 'pasv-helper-acquire-in-del-q': PASV Helper Acquire In Del Queue; 'pasv-helper-acquire-already-used': PASV Helper Acquire Already Used; 'port-helper-freed-used': PORT Helper Freed Used; 'port-helper-freed-unused': PORT Helper Freed Unused; 'pasv-helper-freed-used': PASV Helper Freed Used; 'pasv-helper-freed-unused': PASV Helper Freed Unused;

Type: string

Supported Values: all, client-port-request, client-eprt-request, server-pasv-reply, server-epsv-reply, port-retransmits, pasv-retransmits, smp-app-type-mismatch, retransmit-sanity-check-failure, smp-conn-alloc-failure, port-helper-created, pasv-helper-created, port-helper-acquire-in-del-q, port-helper-acquire-already-used, pasv-helper-acquire-in-del-q, pasv-helper-acquire-already-used, port-helper-freed-used, port-helper-freed-unused, pasv-helper-freed-used, pasv-helper-freed-unused

stateful-firewall_alg_sip

Specification	Value
Type	*object*

sampling-enable

Type: List

sip-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_alg_sip_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'stat-request': Request Received; 'stat-response': Response Received; 'method-register': Method REGISTER; 'method-invite': Method INVITE; 'method-ack': Method ACK; 'method-cancel': Method CANCEL; 'method-bye': Method BYE; 'method-port-config': Method OPTIONS; 'method-prack': Method PRACK; 'method-subscribe': Method SUBSCRIBE; 'method-notify': Method NOTIFY; 'method-publish': Method PUBLISH; 'method-info': Method INFO; 'method-refer': Method REFER; 'method-message': Method MESSAGE; 'method-update': Method UPDATE; 'method-unknown': Method Unknown; 'parse-error': Message Parse Error; 'keep-alive': Keep Alive; 'contact-error': Contact Process Error; 'sdp-error': SDP Process Error; 'rtp-port-no-op': RTP Port No Op; 'rtp-rtcp-port-success': RTP RTCP Port Success; 'rtp-port-failure': RTP Port Failure; 'rtcp-port-failure': RTCP Port Failure; 'contact-port-no-op': Contact Port No Op; 'contact-port-success': Contact Port Success; 'contact-port-failure': Contact Port Failure; 'contact-new': Contact Alloc; 'contact-alloc-failure': Contact Alloc Failure; 'contact-eim': Contact EIM; 'contact-eim-set': Contact EIM Set; 'rtp-new': RTP Alloc; 'rtp-alloc-failure': RTP Alloc Failure; 'rtp-eim': RTP EIM;

Type: string

Supported Values: all, stat-request, stat-response, method-register, method-invite, method-ack, method-cancel, method-bye, method-port-config, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update,

method-unknown, parse-error, keep-alive, contact-error, sdp-error, rtp-port-no-op, rtp-rtcp-port-success, rtp-port-failure, rtcp-port-failure, contact-port-no-op, contact-port-success, contact-port-failure, contact-new, contact-alloc-failure, contact-eim, contact-eim-set, rtp-new, rtp-alloc-failure, rtp-eim

stateful-firewall_alg_pptp

Specification	Value
Type	*object*

pptp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_alg_pptp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'gre-session-created': GRE Session Created; 'gre-session-freed': GRE Session Freed; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-ext-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-app-type-mismatch': SMP App Type Mismatch; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-sessions-created': SMP Session Created; 'smp-sessions-freed': SMP Session Freed; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext;

'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, gre-session-created, gre-session-freed, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-ext-ext-alloc-failure, smp-app-type-mismatch, smp-client-call-id-mismatch, smp-sessions-created, smp-sessions-freed, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

stateful-firewall_alg_rtsp

Specification	Value
Type	*object*

rtsp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_alg_rtsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'transport-inserted': Transport Created; 'transport-freed': Transport Freed; 'transport-alloc-failure': Transport Alloc Failure; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'ext-creation-failure': Extension Creation Failure; 'transport-add-to-ext': Transport Added to Extension; 'transport-removed-from-ext': Transport Removed from Extension; 'transport-too-many': Too Many Transports for Control

Conn; 'transport-already-in-ext': Transport Already in Extension; 'transport-exists': Transport Already Exists; 'transport-link-ext-failure-control': Transport Link to Extension Failure Control; 'transport-link-ext-data': Transport Link to Extension Data; 'transport-link-ext-failure-data': Transport Link to Extension Failure Data; 'transport-inserted-shadow': Transport Inserted Shadow; 'transport-creation-race': Transport Create Race; 'transport-alloc-failure-shadow': Transport Alloc Failure Shadow; 'transport-put-in-del-q': Transport Put in Delete Queue; 'transport-freed-shadow': Transport Freed Shadow; 'transport-acquired-from-control': Transport Acquired Control; 'transport-found-from-prev-control': Transport Found From Prev Control; 'transport-acquire-failure-from-control': Transport Acquire Failure Control; 'transport-released-from-control': Transport Released Control; 'transport-double-release-from-control': Transport Double Release Control; 'transport-acquired-from-data': Transport Acquired Data; 'transport-acquire-failure-from-data': Transport Acquire Failure Data; 'transport-released-from-data': Transport Released Data; 'transport-double-release-from-data': Transport Double Release Data; 'transport-retry-lookup-on-data-free': Transport Retry Lookup Data; 'transport-not-found-on-data-free': Transport Not Found Data; 'data-session-created-shadow': Data Session Created Shadow; 'data-session-freed-shadow': Data Session Freed Shadow; 'ha-control-ext-creation-failure': HA Control Extension Creation Failure; 'ha-control-session-created': HA Control Session Created; 'ha-data-session-created': HA Data Session Created;

Type: string

Supported Values: all, transport-inserted, transport-freed, transport-alloc-failure, data-session-created, data-session-freed, ext-creation-failure, transport-add-to-ext, transport-removed-from-ext, transport-too-many, transport-already-in-ext, transport-exists, transport-link-ext-failure-control, transport-link-ext-data, transport-link-ext-failure-data, transport-inserted-shadow, transport-creation-race, transport-alloc-failure-shadow, transport-put-in-del-q, transport-freed-shadow, transport-acquired-from-control, transport-found-from-prev-control, transport-acquire-failure-from-control, transport-released-from-control, transport-double-release-from-control, transport-acquired-from-data, transport-acquire-failure-from-data, transport-released-from-data, transport-double-release-from-data, transport-retry-lookup-on-data-free, transport-not-found-on-data-free, data-session-created-shadow, data-session-freed-shadow, ha-control-ext-creation-failure, ha-control-session-created, ha-data-session-created

stateful-firewall_alg_rtp

Specification	Value
Type	*object*

rtp-stun-timeout

Description RTP/RTCP STUN timeout (default: 5 minutes)}

Type: number

Range: 2-10

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_alg_tftp

Specification	Value
Type	*object*

sampling-enable

Type: List

tftp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_alg_tftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

stateful-firewall_global

Specification	Value
Type	*object*

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Type: List

stateful-firewall-value

Description 'enable': Enable stateful firewall;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'tcp_packet_process': TCP Packet Process; 'udp_packet_process': UDP Packet Process; 'other_packet_process': Other Packet Process; 'packet_inbound_deny': Inbound Packet Denied; 'packet_process_failure': Packet Error Drop; 'outbound_session_created': Outbound Session Created; 'outbound_session_freed': Outbound Session Freed; 'inbound_session_created': Inbound Session Created; 'inbound_session_freed': Inbound Session Freed; 'tcp_session_created': TCP Session Created; 'tcp_session_freed': TCP Session Freed; 'udp_session_created': UDP Session Created; 'udp_session_freed': UDP Session Freed; 'other_session_created': Other Session Created; 'other_session_freed': Other Session Freed; 'session_creation_failure': Session Creation Failure; 'no_fwd_route': No Forward Route; 'no_rev_route': No Reverse Route; 'packet_standby_drop': Standby Drop; 'tcp_fullcone_created': TCP Full-cone Created; 'tcp_fullcone_freed': TCP Full-cone Freed; 'udp_fullcone_created': UDP Full-cone Created;

'udp_fullcone_freed': UDP Full-cone Freed; 'fullcone_creation_failure': Full-Cone Creation Failure; 'eif_process': Endpnt-Independent Filter Matched; 'one_arm_drop': One-Arm Drop; 'no_class_list_match': No Class-List Match Drop; 'outbound_session_created_shadow': Outbound Session Created Shadow; 'outbound_session_freed_shadow': Outbound Session Freed Shadow; 'inbound_session_created_shadow': Inbound Session Created Shadow; 'inbound_session_freed_shadow': Inbound Session Freed Shadow; 'tcp_session_created_shadow': TCP Session Created Shadow; 'tcp_session_freed_shadow': TCP Session Freed Shadow; 'udp_session_created_shadow': UDP Session Created Shadow; 'udp_session_freed_shadow': UDP Session Freed Shadow; 'other_session_created_shadow': Other Session Created Shadow; 'other_session_freed_shadow': Other Session Freed Shadow; 'session_creation_failure_shadow': Session Creation Failure Shadow; 'bad_session_freed': Bad Session Proto on Free; 'ctl_mem_alloc': Memory Alloc; 'ctl_mem_free': Memory Free; 'tcp_fullcone_created_shadow': TCP Full-cone Created Shadow; 'tcp_fullcone_freed_shadow': TCP Full-cone Freed Shadow; 'udp_fullcone_created_shadow': UDP Full-cone Created Shadow; 'udp_fullcone_freed_shadow': UDP Full-cone Freed Shadow; 'fullcone_in_del_q': Full-cone Found in Delete Queue; 'fullcone_overflow_eim': EIM Overflow; 'fullcone_overflow_eif': EIF Overflow; 'fullcone_free_found': Full-cone Free Found From Conn; 'fullcone_free_retry_lookup': Full-cone Retry Look-up; 'fullcone_free_not_found': Full-cone Free Not Found; 'eif_limit_exceeded': EIF Limit Exceeded; 'eif_disable_drop': EIF Disable Drop; 'eif_process_failure': EIF Process Failure; 'eif_filtered': EIF Filtered; 'ha_standby_session_created': HA Standby Session Created; 'ha_standby_session_eim': HA Standby Session EIM; 'ha_standby_session_eif': HA Standby Session EIF;

Type: string

Supported Values: all, tcp_packet_process, udp_packet_process, other_packet_process, packet_inbound_deny, packet_process_failure, outbound_session_created, outbound_session_freed, inbound_session_created, inbound_session_freed, tcp_session_created, tcp_session_freed, udp_session_created, udp_session_freed, other_session_created, other_session_freed, session_creation_failure, no_fwd_route, no_rev_route, packet_standby_drop, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_creation_failure, eif_process, one_arm_drop, no_class_list_match, outbound_session_created_shadow, outbound_session_freed_shadow, inbound_session_created_shadow, inbound_session_freed_shadow, tcp_session_created_shadow, tcp_session_freed_shadow, udp_session_created_shadow, udp_session_freed_shadow, other_session_created_shadow, other_session_freed_shadow, session_creation_failure_shadow, bad_session_freed, ctl_mem_alloc, ctl_mem_free, tcp_fullcone_created_shadow, tcp_fullcone_freed_shadow, udp_fullcone_created_shadow, udp_fullcone_freed_shadow, fullcone_in_del_q, fullcone_overflow_eim, fullcone_overflow_eif, fullcone_free_found, fullcone_free_retry_lookup, fullcone_free_not_found, eif_limit_exceeded, eif_disable_drop, eif_process_failure, eif_filtered, ha_standby_session_created, ha_standby_session_eim, ha_standby_session_eif

stateful-firewall_tcp

Specification	Value
Type	*object*

idle-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout/{port}+{port-end}*

stun-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout/{port}+{port-end}*

syn-timeout

Description: syn-timeout is a **JSON Block**. Please see below for *stateful-firewall_tcp_syn-timeout*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout*

stateful-firewall_tcp_stun-timeout-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

stun-timeout-val-port-range

Description STUN timeout (default: 2minutes)

Type: number

Range: 0-60

Default: 2

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_tcp_syn-timeout

Specification	Value
Type	*object*

syn-timeout-val

Description Set Seconds session can remain in half-open state before being deleted (default: 4 seconds)

Type: number

Range: 2-30

Default: 4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_tcp_idle-timeout-list

Specification	Value
Type	*list*
Block object keys	

idle-timeout-val-port-range

Description Set Idle timeout for IPv4 and IPv6 TCP established sessions (Idle timeout for IPv4 and IPv6 TCP established sessions (default: 300 seconds))

Type: number

Range: 60-15000

Default: 300

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_stun-timeout-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

stun-timeout-val-port-range

Description STUN timeout (default: 2 minutes)

Type: number

Range: 0-60

Default: 2

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_endpoint-independent-filtering

Specification	Value
Type	*object*

tcp

Description: tcp is a **JSON Block**. Please see below for *stateful-firewall_endpoint-independent-filtering_tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *stateful-firewall_endpoint-independent-filtering_udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp*

stateful-firewall_endpoint-independent-filtering_udp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_endpoint-independent-filtering_udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

stateful-firewall_endpoint-independent-filtering_tcp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateful-firewall_endpoint-independent-filtering_tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

nat

Specification	Value
Type	*object*

exclude-port

Description: exclude-port is a **JSON Block**. Please see below for *nat_exclude-port*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/exclude-port*

histogram

Description: histogram is a **JSON Block**. Please see below for *nat_histogram*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/histogram*

icmp

Description: icmp is a **JSON Block**. Please see below for *nat_icmp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/icmp*

icmpv6

Description: icmpv6 is a **JSON Block**. Please see below for *nat_icmpv6*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/icmpv6*

inside

Description: inside is a **JSON Block**. Please see below for *nat_inside*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/inside*

pool-group-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat/pool-group/{pool-group-name}*

pool-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat/pool/{pool-name}*

range-list-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat/range-list/{name}+{partition}*

shared-pool

Description: shared-pool is a **JSON Block**. Please see below for *nat_shared-pool*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/shared-pool*

shared-pool-group

Description: shared-pool-group is a **JSON Block**. Please see below for *nat_shared-pool-group*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/shared-pool-group*

nat_shared-pool

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat_shared-pool-group

Specification	Value
Type	*object*

members

Description: members is a **JSON Block**. Please see below for *nat_shared-pool-group_members*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/shared-pool-group/members*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat_shared-pool-group_members

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat_pool-group-list

Specification	Value
Type	*list*
Block object keys	

member-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat/pool-group/{pool-group-name}/member/{pool-name}*

pool-group-name

Description Specify pool group name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Specify VRRP-A vrid

Type: number

Range: 1-31

nat_pool-group-list_member-list

Specification	Value
Type	*list*
Block object keys	

pool-name

Description Specify CGNv6 NAT pool name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat_histogram

Specification	Value
Type	*object*

bin-count

Description Number of bins in the histogram (default: 50)

Type: number

Range: 10-100

Default: 50

bin-skew

Description Percentage of bins that represent the upper bound (default: 75)

Type: number

Range: 50-80

Default: 75

data-skew

Description Percentage of data that represents the upper bound (default: 25)

Type: number

Range: 5-50

Default: 25

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat_icmpv6

Specification	Value
Type	*object*

respond-to-ping

Description Respond to ICMPv6 echo requests to NAT pool IPs (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat_range-list-list

Specification	Value
Type	*list*
Block object keys	

global-netmaskv4

Description Mask for this Address range

Type: string

Format: ipv4-netmask

global-start-ipv4-addr

Description Global Start IPv4 Address of this list

Type: string

Format: ipv4-address

local-netmaskv4

Description Mask for this Address range

Type: string

Format: ipv4-netmask

local-start-ipv4-addr

Description Local Start IPv4 Address of this list

Type: string

Format: ipv4-address

name

Description Name for this Static List

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-count

Description Number of addresses to be translated in this range

Type: number

Range: 1-200000

v4-vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

nat_exclude-port

Specification	Value
Type	*object*

tcp

Description: tcp is a **JSON Block**. Please see below for *nat_exclude-port_tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/exclude-port/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *nat_exclude-port_udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/exclude-port/udp*

nat_exclude-port_udp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat_exclude-port_udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

nat_exclude-port_tcp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat_exclude-port_tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

nat_icmp

Specification	Value
Type	*object*

always-source-nat-errors

Description Source NAT intermediate routers' IPs for ICMP errors (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

respond-to-ping

Description Respond to ICMP echo requests to NAT pool IPs (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat_inside

Specification	Value
Type	*object*

source

Description: source is a **JSON Block**. Please see below for *nat_inside_source*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/inside/source*

nat_inside_source

Specification	Value
Type	*object*

static-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat/inside/source/static/{src-address}+{partition}*

statistics

Description: statistics is a **JSON Block**. Please see below for *nat_inside_source_statistics*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/inside/source/statistics*

nat_inside_source_statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat_inside_source_static-list

Specification	Value
Type	*list*
Block object keys	

nat-address

Description NAT Address

Type: string

Format: ipv4-address

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

src-address

Description Original Source Address

Type: string

Format: ipv4-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

nat_pool-list

Specification	Value
Type	*list*
Block object keys	

all

Description Share with all partitions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

end-address

Description Configure end IP address of NAT pool

Type: string

Format: ipv4-address

exclude-ip

Type: List

group

Description Share with a partition group (Partition Group Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

max-users-per-ip

Description Number of users that can be assigned to a NAT IP

Type: number

Range: 1-64512

netmask

Description Configure mask for pool

Type: string

Format: ipv4-netmask-brief

partition

Description Share with a single partition (Partition Name)

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

per-batch-port-usage-warning-threshold

Description Configure warning log threshold for per batch port usage (default: disabled) (Number of ports)

Type: number

Range: 32-4096

pool-name

Description Specify pool name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-batch-v2-size

Description '64': Allocate 64 ports at a time; '128': Allocate 128 ports at a time; '256': Allocate 256 ports at a time; '512': Allocate 512 ports at a time; '1024': Allocate 1024 ports at a time; '2048': Allocate 2048 ports at a time; '4096': Allocate 4096 ports at a time;

Type: string

Supported Values: 64, 128, 256, 512, 1024, 2048, 4096

service-config-template

Description Service-template name to bind

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description Share this pool with other partitions (default: not shared)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

simultaneous-batch-allocation

Description Allocate same TCP and UDP batches at once

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-address

Description Configure start IP address of NAT pool

Type: string

Format: ipv4-address

tcp-time-wait-interval

Description Minutes before TCP NAT ports can be reused

Type: number

Range: 0-10

usable-nat-ports

Description Configure usable NAT ports

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports-end

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-nat-ports-start

Description Start Port of Usable NAT Ports (needs to be even)

Type: number

Range: 1024-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Configure VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

nat_pool-list_exclude-ip

Specification	Value
Type	*list*
Block object keys	

exclude-ip-end

Description Address range end

Type: string

Format: ipv4-address

exclude-ip-start

Description Single IP address or IP address range start

Type: string

Format: ipv4-address

sctp

Specification	Value
Type	*object*

global

Description: global is a **JSON Block**. Please see below for *sctp_global*

Type: Object

Reference Object: */axapi/v3/cgnv6/sctp/global*

permit-payload-protocol

Description: permit-payload-protocol is a **JSON Block**. Please see below for *sctp_permit-payload-protocol*

Type: Object

Reference Object: */axapi/v3/cgnv6/sctp/permit-payload-protocol*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *sctp_rate-limit*

Type: Object

Reference Object: */axapi/v3/cgnv6/sctp/rate-limit*

rate-limit-entries

Description: rate-limit-entries is a **JSON Block**. Please see below for *sctp_rate-limit-entries*

Type: Object

Reference Object: */axapi/v3/cgnv6/sctp/rate-limit-entries*

sctp_rate-limit-entries

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sctp_global

Specification	Value
Type	*object*

half-open-timeout

Description Set SCTP half-open timeout (SCTP half-open timeout in seconds (default 4))

Type: number

Range: 2-30

Default: 4

idle-timeout

Description SCTP idle timeout in minutes (default 5)

Type: number

Range: 1-63

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sctp_rate-limit

Specification	Value
Type	*object*

destination-list

Type: List

Reference Object: */axapi/v3/cgnv6/sctp/rate-limit/destination/{ip}*

source-list

Type: List

Reference Object: */axapi/v3/cgnv6/sctp/rate-limit/source/{ip}*

sctp_rate-limit_source-list

Specification	Value
Type	*list*
Block object keys	

ip

Description IP address

Type: string

Format: ipv4-address

rate-limit

Description Rate limit in packets per second

Type: number

Range: 1-2147483647

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sctp_rate-limit_destination-list

Specification	Value
Type	*list*
Block object keys	

ip

Description IP address

Type: string

Format: ipv4-address

rate-limit

Description Rate limit in packets per second

Type: number

Range: 1-2147483647

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sctp_permit-payload-protocol

Specification	Value
Type	*object*

protocol-id-list

Type: List

Reference Object: */axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id/{id}*

protocol-name-list

Type: List

Reference Object: */axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name/{protocol}*

sctp_permit-payload-protocol_protocol-id-list

Specification	Value
Type	*list*
Block object keys	

id

Description Specify SCTP permitted payload protocol IDs

Type: number

Range: 1-63

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sctp_permit-payload-protocol_protocol-name-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'iua': IUA; 'm2ua': M2UA; 'm3ua': M3UA; 'sua': SUA; 'm2pa': M2PA; 'h.323': H.323;

Type: string

Supported Values: iua, m2ua, m3ua, sua, m2pa, h.323

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

shared-service-group

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns64

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns64_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'query': Query; 'query-bad-pkt': Query Bad Packet; 'query-chg': Query Changed; 'query-parallel': Query Parallel; 'query-passive': Query Passive; 'resp': Response; 'resp-bad-pkt': Response Bad Packet; 'resp-bad-qr': Response Bad Query; 'resp-chg': Response Changed; 'resp-err': Response Error; 'resp-empty': Response Empty; 'resp-local': Response Local; 'adjust': Translated; 'cache': Cache; 'drop': Dropped;

Type: string

Supported Values: all, query, query-bad-pkt, query-chg, query-parallel, query-passive, resp, resp-bad-pkt, resp-bad-qr, resp-chg, resp-err, resp-empty, resp-local, adjust, cache, drop

nat46-stateless

Specification	Value
Type	*object*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *nat46-stateless_fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat46-stateless/fragmentation*

global

Description: global is a **JSON Block**. Please see below for *nat46-stateless_global*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat46-stateless/global*

partition-prefix-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat46-stateless/partition-prefix/{partition}*

prefix

Description: prefix is a **JSON Block**. Please see below for *nat46-stateless_prefix*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat46-stateless/prefix*

static-dest-mapping-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat46-stateless/static-dest-mapping/{v4-address}+{v6-address}*

nat46-stateless_static-dest-mapping-list

Specification	Value
Type	*list*
Block object keys	

count

Description Set number of consecutive mappings (Number of mappings)

Type: number

shared

Description Share/Expose this mapping with other partitions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

to-shared

Description Send NATed traffic through shared partition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-address

Description IPv4 address

Type: string

Format: ipv4-address

v6-address

Description IPv6 address

Type: string

Format: ipv6-address

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

nat46-stateless_fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *nat46-stateless_fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *nat46-stateless_fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound*

nat46-stateless_fragmentation_inbound

Specification	Value
Type	*object*

action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat46-stateless_fragmentation_outbound

Specification	Value
Type	*object*

action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv6

Default: ipv6

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv6, send-icmp

Default: send-icmp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat46-stateless_global

Specification	Value
Type	*object*

sampling-enable

Type: List

tcp

Description: tcp is a **JSON Block**. Please see below for *nat46-stateless_global_tcp*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat46-stateless_global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'outbound_ipv4_received': Outbound IPv4 packets received; 'outbound_ipv4_drop': Outbound IPv4 packets dropped; 'outbound_ipv4_fragment_received': Outbound IPv4 fragment packets received; 'outbound_ipv6_unreachable': Outbound IPv6 destination unreachable; 'outbound_ipv6_fragmented': Outbound IPv6 packets fragmented; 'inbound_ipv6_received': Inbound IPv6 packets received; 'inbound_ipv6_drop': Inbound IPv6 packets dropped; 'inbound_ipv6_fragment_received': Inbound IPv6 fragment packets received; 'inbound_ipv4_unreachable': Inbound IPv4 destination unreachable; 'inbound_ipv4_fragmented': Inbound IPv4 packets fragmented; 'packet_too_big': Packet too big; 'fragment_error': Fragment processing errors; 'icmpv6_to_icmp': ICMPv6 to ICMP; 'icmpv6_to_icmp_error': ICMPv6 to ICMP errors; 'icmp_to_icmpv6': ICMP to

ICMPv6; 'icmp_to_icmpv6_error': ICMP to ICMPv6 errors; 'ha_standby': HA is standby; 'other_error': Other errors; 'conn_count': conn count;

Type: string

Supported Values: all, outbound_ipv4_received, outbound_ipv4_drop, outbound_ipv4_fragment_received, outbound_ipv6_unreachable, outbound_ipv6_fragmented, inbound_ipv6_received, inbound_ipv6_drop, inbound_ipv6_fragment_received, inbound_ipv4_unreachable, inbound_ipv4_fragmented, packet_too_big, fragment_error, icmpv6_to_icmp, icmpv6_to_icmp_error, icmp_to_icmpv6, icmp_to_icmpv6_error, ha_standby, other_error, conn_count

nat46-stateless_global_tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *nat46-stateless_global_tcp_mss-clamp*

Type: Object

nat46-stateless_global_tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: ((576 - 60 - 60))))

Type: number

Range: 0-1420

Default: 456

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'none': No TCP MSS clamping; 'subtract': Specify the value to subtract from the TCP MSS (default: 20);

Type: string

Supported Values: fixed, none, subtract

Default: subtract

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: 20)

Type: number

Range: 0-1420

Default: 20

mss-value

Description The max value allowed for the TCP MSS (default: not configured)

Type: number

Range: 0-1420

nat46-stateless_prefix

Specification	Value
Type	*object*

ipv6-prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

nat46-stateless_partition-prefix-list

Specification	Value
Type	*list*
Block object keys	

ipv6-prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

partition

Description Partition Name

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

map

Specification	Value
Type	*object*

encapsulation

Description: encapsulation is a **JSON Block**. Please see below for *map_encapsulation*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation*

translation

Description: translation is a **JSON Block**. Please see below for *map_translation*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation*

map_encapsulation

Specification	Value
Type	*object*

domain-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *map_encapsulation_fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/fragmentation*

map_encapsulation_fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *map_encapsulation_fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *map_encapsulation_fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound*

map_encapsulation_fragmentation_inbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv4, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

map_encapsulation_fragmentation_outbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set)(default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmp, send-icmpv6

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

map_encapsulation_domain-list

Specification	Value
Type	*list*
Block object keys	

basic-mapping-rule

Description: basic-mapping-rule is a **JSON Block**. Please see below for *map_encapsulation_domain-list_basic-mapping-rule*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule*

description

Description MAP-E domain description

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

format

Description 'draft-03': Construct IPv6 Interface Identifier according to draft-03;

Type: string

Supported Values: draft-03

health-check-gateway

Description: health-check-gateway is a **JSON Block**. Please see below for *map_encapsulation_domain-list_health-check-gateway*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}/health-check-gateway*

name

Description MAP-E domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/cgnv6-encap-domain-tmpl*

sampling-enable

Type: List

tunnel-endpoint-address

Description Tunnel Endpoint Address for MAP-E domain

Type: string

Format: ipv6-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

map_encapsulation_domain-list_basic-mapping-rule

Specification	Value
Type	*object*

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

prefix-rule-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule/{name}*

rule-ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

map_encapsulation_domain-list_basic-mapping-rule_prefix-rule-list

Specification	Value
Type	*list*
Block object keys	

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

ipv4-netmask

Description Subnet mask (subnet bigger than /8 is not allowed)

Type: string

Format: ipv4-netmask-brief

name

Description MAP BMR prefix rule name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

rule-ipv4-prefix

Description IPv4 prefix of BMR

Type: string

Format: ipv4-address

rule-ipv6-prefix

Description IPv6 prefix of BMR

Type: string

Format: ipv6-address-plen

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

map_encapsulation_domain-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'inbound_packet_received': Inbound IPv4 Packets Received; 'inbound_frag_packet_received': Inbound IPv4 Fragment Packets Received; 'inbound_addr_port_validation_failed': Inbound IPv4 Destination Address Port Validation Failed; 'inbound_rev_lookup_failed': Inbound IPv4 Reverse Route Lookup Failed; 'inbound_dest_unreachable': Inbound IPv6 Destination Address Unreachable; 'outbound_packet_received': Outbound IPv6 Packets Received; 'outbound_frag_packet_received': Outbound IPv6 Fragment Packets Received; 'outbound_addr_validation_failed': Outbound IPv6 Source Address Validation Failed; 'outbound_rev_lookup_failed': Outbound IPv6 Reverse Route Lookup Failed; 'outbound_dest_unreachable': Outbound IPv4 Destination Address Unreachable; 'packet_mtu_exceeded': Packet Exceeded MTU; 'frag_icmp_sent': ICMP Packet Too Big Sent; 'interface_not_configured': Interfaces not Configured Dropped; 'bmr_prefixrules_configured': BMR prefix rules configured; 'helper_count': Helper Count; 'active_dhcpv6_leases': Active DHCPv6 leases;

Type: string

Supported Values: all, inbound_packet_received, inbound_frag_packet_received, inbound_addr_port_validation_failed, inbound_rev_lookup_failed, inbound_dest_unreachable, outbound_packet_received, outbound_frag_packet_received, outbound_addr_validation_failed, outbound_rev_lookup_failed, outbound_dest_unreachable, packet_mtu_exceeded, frag_icmp_sent, interface_not_configured, bmr_prefixrules_configured, helper_count, active_dhcpv6_leases

map_encapsulation_domain-list_health-check-gateway

Specification	Value
Type	*object*

address-list

Type: List

ipv6-address-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

withdraw-route

Description 'all-link-failure': Withdraw routes on health-check failure of all IPv4 gateways or all IPv6 gateways; 'any-link-failure': Withdraw routes on health-check failure of any gateway (default);

Type: string

Supported Values: all-link-failure, any-link-failure

Default: any-link-failure

map_encapsulation_domain-list_health-check-gateway_ipv6-address-list

Specification	Value
Type	*list*
Block object keys	

ipv6-gateway

Description IPv6 Gateway

Type: string

Format: ipv6-address

map_encapsulation_domain-list_health-check-gateway_address-list

Specification	Value
Type	*list*
Block object keys	

ipv4-gateway

Description IPv4 Gateway

Type: string

Format: ipv4-address

map_translation

Specification	Value
Type	*object*

default-domain

Description: default-domain is a **JSON Block**. Please see below for *map_translation_default-domain*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/default-domain*

domain-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *map_translation_fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/fragmentation*

map_translation_fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *map_translation_fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *map_translation_fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/fragmentation/outbound*

map_translation_fragmentation_inbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

map_translation_fragmentation_outbound

Specification	Value
Type	*object*

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

map_translation_domain-list

Specification	Value
Type	*list*
Block object keys	

basic-mapping-rule

Description: basic-mapping-rule is a **JSON Block**. Please see below for *map_translation_domain-list_basic-mapping-rule*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule*

default-mapping-rule

Description: default-mapping-rule is a **JSON Block**. Please see below for *map_translation_domain-list_default-mapping-rule*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/default-mapping-rule*

description

Description MAP-T domain description

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

health-check-gateway

Description: health-check-gateway is a **JSON Block**. Please see below for *map_translation_domain-list_health-check-gateway*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/health-check-gateway*

mtu

Description Domain MTU

Type: number

name

Description MAP-T domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/cgnv6-map-trans-domain-tmpl*

sampling-enable

Type: List

tcp

Description: tcp is a **JSON Block**. Please see below for *map_translation_domain-list_tcp*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

map_translation_domain-list_default-mapping-rule

Specification	Value
Type	*object*

rule-ipv6-prefix

Description Rule IPv6 prefix

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

map_translation_domain-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'inbound_packet_received': Inbound IPv4 Packets Received; 'inbound_frag_packet_received': Inbound IPv4 Fragment Packets Received; 'inbound_addr_port_validation_failed': Inbound IPv4 Destination Address Port Validation Failed; 'inbound_rev_lookup_failed': Inbound IPv4 Reverse Route Lookup Failed; 'inbound_dest_unreachable': Inbound IPv6 Destination Address Unreachable; 'outbound_packet_received': Outbound IPv6 Packets Received; 'outbound_frag_packet_received': Outbound IPv6 Fragment Packets Received; 'outbound_addr_validation_failed': Outbound IPv6 Source Address Validation Failed; 'outbound_rev_lookup_failed': Outbound IPv6 Reverse Route Lookup Failed; 'outbound_dest_unreachable': Outbound IPv4 Destination Address Unreachable; 'packet_mtu_exceeded': Packet Exceeded MTU; 'frag_icmp_sent': ICMP Packet Too Big Sent; 'interface_not_configured': Interfaces not Configured Dropped; 'bmr_prefixrules_configured': BMR prefix rules configured; 'helper_count': Helper Count; 'active_dhcpv6_leases': Active DHCPv6 leases;

Type: string

Supported Values: all, inbound_packet_received, inbound_frag_packet_received, inbound_addr_port_validation_failed, inbound_rev_lookup_failed, inbound_dest_unreachable, outbound_packet_received, outbound_frag_packet_received, outbound_addr_validation_failed, outbound_rev_lookup_failed, outbound_dest_unreachable, packet_mtu_exceeded, frag_icmp_sent, interface_not_configured, bmr_prefixrules_configured, helper_count, active_dhcpv6_leases

map_translation_domain-list_tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *map_translation_domain-list_tcp_mss-clamp*

Type: Object

map_translation_domain-list_tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: 516))

Type: number

Range: 0-1440

Default: 516

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'none': No TCP MSS clamping(default); 'subtract': Specify the value to subtract from the TCP MSS;

Type: string

Supported Values: fixed, none, subtract

Default: none

mss-subtract

Description Specify the value to subtract from the TCP MSS

Type: number

Range: 0-1440

mss-value

Description The max value allowed for the TCP MSS

Type: number

Range: 0-1440

map_translation_domain-list_health-check-gateway

Specification	Value
Type	*object*

address-list

Type: List

ipv6-address-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

withdraw-route

Description 'all-link-failure': Withdraw routes on health-check failure of all IPv4 gateways or all IPv6 gateways; 'any-link-failure': Withdraw routes on health-check failure of any gateway (default);

Type: string

Supported Values: all-link-failure, any-link-failure

Default: any-link-failure

map_translation_domain-list_health-check-gateway_ipv6-address-list

Specification	Value
Type	*list*
Block object keys	

ipv6-gateway

Description IPv6 Gateway

Type: string

Format: ipv6-address

map_translation_domain-list_health-check-gateway_address-list

Specification	Value
Type	*list*
Block object keys	

ipv4-gateway

Description IPv4 Gateway

Type: string

Format: ipv4-address

map_translation_domain-list_basic-mapping-rule

Specification	Value
Type	*object*

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

prefix-rule-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule/{name}*

rule-ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

map_translation_domain-list_basic-mapping-rule_prefix-rule-list

Specification	Value
Type	*list*
Block object keys	

ipv4-netmask

Description Subnet mask (subnet bigger than /8 is not allowed)

Type: string

Format: ipv4-netmask-brief

name

Description MAP BMR prefix rule name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-ipv4-prefix

Description IPv4 prefix of BMR

Type: string

Format: ipv4-address

rule-ipv6-prefix

Description IPv6 prefix of BMR

Type: string

Format: ipv6-address-plen

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

map_translation_default-domain

Specification	Value
Type	*object*

name

Description MAP-T domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/map/translation/domain*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/dns/{name}*

http-alg-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/http-alg/{name}*

logging-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}*

pcp-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/pcp/{name}*

policy-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/policy/{name}*

template_policy-list

Specification	Value
Type	*list*
Block object keys	

class-list

Description: class-list is a **JSON Block**. Please see below for *template_policy-list_class-list*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/policy/{name}/class-list*

name

Description Policy template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_policy-list_class-list

Specification	Value
Type	*object*

client-ip-l3-dest

Description Use destination IP as client IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: client-ip-l3-dest and client-ip-l7-header are mutually exclusive

client-ip-l7-header

Description Use extract client IP address from L7 header

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: client-ip-l7-header and client-ip-l3-dest are mutually exclusive

header-name

Description Specify L7 header name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

lid-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/policy/{name}/class-list/lid/{lidnum}*

name

Description Class list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_policy-list_class-list_lid-list

Specification	Value
Type	*list*
Block object keys	

action-value

Description 'forward': Forward the traffic even it exceeds limit; 'reset': Reset the connection when it exceeds limit;

Type: string

Supported Values: forward, reset

conn-limit

Description Connection limit

Type: number

Range: 0-1048575

conn-per

Description Per (Specify interval in number of 100ms)

Type: number

Range: 1-65535

conn-rate-limit

Description Specify connection rate limit

Type: number

Range: 1-2147483647

dns64

Description: dns64 is a **JSON Block**. Please see below for *template_policy-list_class-list_lid-list_dns64*

Type: Object

interval

Description Specify log interval in minutes, by default system will log every over limit instance

Type: number

Range: 1-255

lidnum

Description Specify a limit ID

Type: number

Range: 1-31

lockout

Description Don't accept any new connection for certain time (Lockout duration in minutes)

Type: number

Range: 1-1023

log

Description Log a message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

over-limit-action

Description Set action when exceeds limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

request-limit

Description Request limit (Specify request limit)

Type: number

Range: 0-1048575

request-per

Description Per (Specify interval in number of 100ms)

Type: number

Range: 1-65535

request-rate-limit

Description Request rate limit (Specify request rate limit)

Type: number

Range: 1-4294967295

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_policy-list_class-list_lid-list_dns64

Specification	Value
Type	*object*

disable

Description Disable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exclusive-answer

Description Exclusive Answer in DNS Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

template_logging-list

Specification	Value
Type	*list*
Block object keys	

batched-logging-disable

Description Disable multiple logs per packet

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

custom

Description: custom is a **JSON Block**. Please see below for *template_logging-list_custom*

Type: Object

disable-log-by-destination

Description: disable-log-by-destination is a **JSON Block**. Please see below for *template_logging-list_disable-log-by-destination*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination*

enable-log-by-destination

Description: enable-log-by-destination is a **JSON Block**. Please see below for *template_logging-list_enable-log-by-destination*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination*

facility

Description 'kernel': 0: Kernel; 'user': 1: User-level; 'mail': 2: Mail; 'daemon': 3: System daemons; 'security-authorization': 4: Security/authorization; 'syslog': 5: Syslog internal; 'line-printer': 6: Line printer; 'news': 7: Network news; 'uucp': 8: UUCP subsystem; 'cron': 9: Time-related; 'security-authorization-private': 10: Private security/authorization; 'ftp': 11: FTP; 'ntp': 12: NTP; 'audit': 13: Audit; 'alert': 14: Alert; 'clock': 15: Clock-related; 'local0': 16: Local use 0; 'local1': 17: Local use 1; 'local2': 18: Local use 2; 'local3': 19: Local use 3; 'local4': 20: Local use 4; 'local5': 21: Local use 5; 'local6': 22: Local use 6; 'local7': 23: Local use 7;

Type: string

Supported Values: kernel, user, mail, daemon, security-authorization, syslog, line-printer, news, uucp, cron, security-authorization-private, ftp, ntp, audit, alert, clock, local0, local1, local2, local3, local4, local5, local6, local7

Default: local0

format

Description 'binary': Binary logging format; 'compact': Compact ASCII logging format (Hex format with compact representation); 'custom': Arbitrary custom logging format; 'default': Default A10 logging format (ASCII); 'rfc5424': RFC5424 compliant logging format; 'cef': Common Event Format for logging;

Type: string

Supported Values: binary, compact, custom, default, rfc5424, cef

Default: default

include-destination

Description Include the destination IP and port in logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-http

Description: include-http is a **JSON Block**. Please see below for *template_logging-list_include-http*

Type: Object

include-inside-user-mac

Description Include the inside user MAC address in logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-partition-name

Description Include partition name in logging events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-port-block-account

Description include bytes accounting information in port-batch-v2 port-mapping and fixed-nat user-ports messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-radius-attribute

Description: include-radius-attribute is a **JSON Block**. Please see below for *template_logging-list_include-radius-attribute*

Type: Object

include-session-byte-count

Description include byte count in session deletion logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-year

Description including the 4-digit year in CEF, compact and default logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log

Description: log is a **JSON Block**. Please see below for *template_logging-list_log*

Type: Object

log-receiver

Description: log-receiver is a **JSON Block**. Please see below for *template_logging-list_log-receiver*

Type: Object

name

Description Logging template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

resolution

Description 'seconds': Logging timestamp resolution in seconds (default); '10-milliseconds': Logging timestamp resolution in 10s of milli-seconds;

Type: string

Supported Values: seconds, 10-milliseconds

Default: seconds

rfc-custom

Description: rfc-custom is a **JSON Block**. Please see below for *template_logging-list_rfc-custom*

Type: Object

rule

Description: rule is a **JSON Block**. Please see below for *template_logging-list_rule*

Type: Object

service-group

Description Set NAT logging service-group

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

severity

Description: severity is a **JSON Block**. Please see below for *template_logging-list_severity*

Type: Object

shared

Description Service group is in shared patition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-address

Description: source-address is a **JSON Block**. Please see below for *template_logging-list_source-address*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/source-address*

source-port

Description: source-port is a **JSON Block**. Please see below for *template_logging-list_source-port*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_include-http

Specification	Value
Type	*object*

file-extension

Description HTTP file extension

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

header-cfg

Type: List

l4-session-info

Description Log the L4 session information of the HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

method

Description Log the HTTP Request Method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

request-number

Description HTTP Request Number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_logging-list_include-http_header-cfg

Specification	Value
Type	*list*
Block object keys	

custom-header-name

Description Header name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

custom-max-length

Description Max length for a HTTP request log (Max header length (Default: 100 char))

Type: number

Range: 100-1000

Default: 100

http-header

Description 'cookie': Log HTTP Cookie Header; 'referer': Log HTTP Referer Header; 'user-agent': Log HTTP User-Agent Header; 'header1': Log HTTP Header 1; 'header2': Log HTTP Header 2; 'header3': Log HTTP Header 3;

Type: string

Supported Values: cookie, referer, user-agent, header1, header2, header3

max-length

Description Max length for a HTTP request log (Max header length (Default: 100 char))

Type: number

Range: 100-1000

Default: 100

template_logging-list_enable-log-by-destination

Specification	Value
Type	*object*

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip/{ipv4-addr}*

ip6-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6/{ipv6-addr}*

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_enable-log-by-destination_ip-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4-addr

Description Configure an IP subnet

Type: string

Format: ipv4-cidr

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_enable-log-by-destination_ip-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_enable-log-by-destination_ip-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_enable-log-by-destination_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_enable-log-by-destination_ip6-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6-addr

Description Configure an IPv6 subnet

Type: string

Format: ipv6-address-plen

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_enable-log-by-destination_ip6-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_enable-log-by-destination_ip6-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_enable-log-by-destination_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_severity

Specification	Value
Type	*object*

severity-string

Description 'emergency': 0: Emergency; 'alert': 1: Alert; 'critical': 2: Critical; 'error': 3: Error; 'warning': 4: Warning; 'notice': 5: Notice; 'informational': 6: Informational; 'debug': 7: Debug;

Type: string

Supported Values: emergency, alert, critical, error, warning, notice, informational, debug

Default: debug

Mutual Exclusion: severity-string and severity-val are mutually exclusive

severity-val

Description Logging severity level

Type: number

Range: 0-7

Default: 7

Mutual Exclusion: severity-val and severity-string are mutually exclusive

template_logging-list_custom

Specification	Value
Type	*object*

custom-header

Description 'use-syslog-header': Use syslog header as custom log header;

Type: string

Supported Values: use-syslog-header

custom-message

Description: custom-message is a **JSON Block**. Please see below for *template_logging-list_custom_custom-message*

Type: Object

custom-time-stamp-format

Description Customize the time stamp format (Customize the time-stamp format. Default:%Y%m%d%H%M%S)

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

template_logging-list_custom_custom-message

Specification	Value
Type	*object*

custom-dhcpv6-map-prefix-assigned

Description MAP DHCPv6 prefix assigned

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-dhcpv6-map-prefix-released

Description MAP DHCPv6 prefix released

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-dhcpv6-map-prefix-renewed

Description MAP DHCPv6 prefix renewed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-fixed-nat-allocated

Description Fixed-NAT allocated (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-fixed-nat-freed

Description Fixed-NAT freed (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-fixed-nat-interim-update

Description Fixed-NAT interim update (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-http-request-got

Description HTTP request got (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-allocated

Description Port allocated (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-allocated

Description Port Batch allocated (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-freed

Description Port Batch freed (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-v2-allocated

Description Port Batch v2 allocated (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-v2-freed

Description Port Batch v2 freed (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-v2-interim-update

Description Port Batch v2 interim update (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-freed

Description Port freed (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-session-created

Description Session created (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-session-deleted

Description Session deleted (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

template_logging-list_source-address

Specification	Value
Type	*object*

ip

Description Specify source IP address

Type: string

Format: ipv4-address

ipv6

Description Specify source IPv6 address

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_source-port

Specification	Value
Type	*object*

any

Description Use any source port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: any and source-port-num are mutually exclusive

source-port-num

Description Set source port for sending NAT syslogs (default: 514)

Type: number

Range: 1-65535

Default: 514

Mutual Exclusion: source-port-num and any are mutually exclusive

template_logging-list_log

Specification	Value
Type	*object*

fixed-nat

Description: fixed-nat is a **JSON Block**. Please see below for *template_logging-list_log_fixed-nat*

Type: Object

http-requests

Description 'host': Log the HTTP Host Header; 'url': Log the HTTP Request URL;

Type: string

Supported Values: host, url

map-dhcpv6

Description: map-dhcpv6 is a **JSON Block**. Please see below for *template_logging-list_log_map-dhcpv6*

Type: Object

merged-style

Description Merge creation and deletion of session logs to one

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

one-to-one-nat

Description: one-to-one-nat is a **JSON Block**. Please see below for *template_logging-list_log_one-to-one-nat*

Type: Object

port-mappings

Description 'creation': Log only creation of NAT mappings; 'disable': Disable Log creation and deletion of NAT mappings; 'both': Log creation and deletion of NAT mappings;

Type: string

Supported Values: creation, disable, both

Default: both

port-overloading

Description Force logging of all port-overloading sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sessions

Description Log all data sessions created using NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-data

Description Log LSN Subscriber Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_logging-list_log_one-to-one-nat

Specification	Value
Type	*object*

one-to-one-merged-style

Description Merge creation and deletion of session logs to one

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

one-to-one-nat-sessions

Description Log all One-to-One NAT sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_logging-list_log_map-dhcpv6

Specification	Value
Type	*object*

map-dhcpv6-msg-type

Type: List

map-dhcpv6-prefix-all

Description Log MAP DHCPv6 prefix assignment/renewal/release

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: map-dhcpv6-prefix-all and map-dhcpv6-msg-type are mutually exclusive

template_logging-list_log_map-dhcpv6_map-dhcpv6-msg-type

Specification	Value
Type	*list*
Block object keys	

map-dhcpv6-msg-type

Description 'prefix-assignment': Log MAP DHCPv6 prefix assignment; 'prefix-renewal': Log MAP DHCPv6 prefix renewal; 'prefix-release': Log MAP DHCPv6 prefix release;

Type: string

Supported Values: prefix-assignment, prefix-renewal, prefix-release

Mutual Exclusion: map-dhcpv6-msg-type and map-dhcpv6-prefix-all are mutually exclusive

template_logging-list_log_fixed-nat

Specification	Value
Type	*object*

fixed-nat-http-requests

Description 'host': Log the HTTP Host Header; 'url': Log the HTTP Request URL;

Type: string

Supported Values: host, url

fixed-nat-merged-style

Description Merge creation and deletion of session logs to one

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fixed-nat-port-mappings

Description 'both': Log creation and deletion of NAT mappings; 'creation': Log creation of NAT mappings;

Type: string

Supported Values: both, creation

fixed-nat-sessions

Description Log all Fixed NAT sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-ports

Description: user-ports is a **JSON Block**. Please see below for *template_logging-list_log_fixed-nat_user-ports*

Type: Object

template_logging-list_log_fixed-nat_user-ports

Specification	Value
Type	*object*

days

Description Specify period in days

Type: number

Range: 1-30

start-time

Description Time when periodic logging starts (Specify start time(hh:mm))

Type: string

Format: time-hhmm

user-ports

Description Log Fixed NAT User Ports Configured

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_logging-list_log-receiver

Specification	Value
Type	*object*

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

radius

Description Use RADIUS server for NAT logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-string

Description The RADIUS server's secret

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

template_logging-list_include-radius-attribute

Specification	Value
Type	*object*

attr-cfg

Type: List

framed-ipv6-prefix

Description Include radius attributes for the prefix

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

insert-if-not-existing

Description Configure what string is to be inserted for custom RADIUS attributes

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

no-quote

Description No quotation marks for RADIUS attributes in logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prefix-length

Description '32': Prefix length 32; '48': Prefix length 48; '64': Prefix length 64; '80': Prefix length 80; '96': Prefix length 96; '112': Prefix length 112;

Type: string

Supported Values: 32, 48, 64, 80, 96, 112

zero-in-custom-attr

Description Insert 0000 for standard and custom attributes in log string

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_logging-list_include-radius-attribute_attr-cfg

Specification	Value
Type	*list*
Block object keys	

attr

Description 'imei': Include IMEI; 'imsi': Include IMSI; 'msisdn': Include MSISDN; 'custom1': Customized attribute 1; 'custom2': Customized attribute 2; 'custom3': Customized attribute 3; 'custom4': Customized attribute 4; 'custom5': Customized attribute 5; 'custom6': Customized attribute 6;

Type: string

Supported Values: imei, imsi, msisdn, custom1, custom2, custom3, custom4, custom5, custom6

attr-event

Description 'http-requests': Include in HTTP request logs; 'port-mappings': Include in port-mapping logs; 'sessions': Include in session logs; 'user-data': Include in user-data logs;

Type: string

Supported Values: http-requests, port-mappings, sessions, user-data

template_logging-list_rule

Specification	Value
Type	*object*

interim-update-interval

Description Log interim update of NAT mappings (Interim update interval in minutes(Interval is floored to a multiple of 5))

Type: number

Range: 15-120

rule-http-requests

Description: rule-http-requests is a **JSON Block**. Please see below for *template_logging-list_rule_rule-http-requests*

Type: Object

template_logging-list_rule_rule-http-requests

Specification	Value
Type	*object*

dest-port

Type: List

disable-sequence-check

Description Disable http packet sequence check and don't drop out of order packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-all-headers

Description Include all configured headers despite of absence in HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-every-http-request

Description Log every HTTP request in an HTTP 1.1 session (Default: Log the first HTTP request in a session)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-url-len

Description Max length of URL log (Max URL length (Default: 128 char))

Type: number

Range: 100-1000

Default: 128

template_logging-list_rule_rule-http-requests_dest-port

Specification	Value
Type	*list*
Block object keys	

dest-port-number

Description

Type: number

Range: 1-65535

include-byte-count

Description Include the byte count of HTTP Request/Response in CGN session deletion logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_logging-list_disable-log-by-destination

Specification	Value
Type	*object*

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip/{ipv4-addr}*

ip6-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6/{ipv6-addr}*

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_disable-log-by-destination_ip-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4-addr

Description Configure an IP subnet

Type: string

Format: ipv4-cidr

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_disable-log-by-destination_ip-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_disable-log-by-destination_ip-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_disable-log-by-destination_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_disable-log-by-destination_ip6-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6-addr

Description Configure an IPv6 subnet

Type: string

Format: ipv6-address-plen

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_disable-log-by-destination_ip6-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_disable-log-by-destination_ip6-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_disable-log-by-destination_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_rfc-custom

Specification	Value
Type	*object*

header

Description: header is a **JSON Block**. Please see below for *template_logging-list_rfc-custom_header*

Type: Object

message

Description: message is a **JSON Block**. Please see below for *template_logging-list_rfc-custom_message*

Type: Object

template_logging-list_rfc-custom_header

Specification	Value
Type	*object*

use-alternate-timestamp

Description Use alternate non-RFC5424 compliant timestamp. Ex: 1990 Jan 15 12:30:30

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_logging-list_rfc-custom_message

Specification	Value
Type	*object*

dhcpv6-map-prefix-assigned

Description MAP DHCPv6 prefix assigned

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

dhcpv6-map-prefix-released

Description MAP DHCPv6 prefix released

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

dhcpv6-map-prefix-renewed

Description MAP DHCPv6 prefix renewed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

http-request-got

Description HTTP request got (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

ipv6-tech

Type: List

session-created

Description Session created (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

session-deleted

Description Session deleted (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

template_logging-list_rfc-custom_message_ipv6-tech

Specification	Value
Type	*list*
Block object keys	

fixed-nat-allocated

Description Fixed-NAT allocated (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

fixed-nat-freed

Description Fixed-NAT freed (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-allocated

Description Port allocated (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-batch-allocated

Description Port Batch allocated (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-batch-freed

Description Port Batch freed (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-batch-v2-allocated

Description Port Batch v2 allocated (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-batch-v2-freed

Description Port Batch v2 freed (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-freed

Description Port freed (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

tech-type

Description 'lsn': LSN; 'nat64': NAT64; 'ds-lite': DS-Lite; 'sixrd-nat64': 6rd-NAT64;

Type: string

Supported Values: lsn, nat64, ds-lite, sixrd-nat64

template_pcp-list

Specification	Value
Type	*list*
Block object keys	

allow-third-party-from-lan

Description Allow third party request coming from LAN (default is disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-third-party-from-wan

Description Allow third party request coming from WAN (default is disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

announce

Description PCP ANNOUNCE Opcode (default is enabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

check-client-nonce

Description To validate NONCE value in PCP request (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-map-filter

Description To disable processing of FILTER options in MAP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

map

Description PCP MAP Opcode (default is enabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

maximum

Description To set maximum lifetime of PCP mappings (default 1440 minutes)

Type: number

Range: 2-1440

Default: 1440

minimum

Description To set minimum lifetime of PCP mappings (default 2 minutes)

Type: number

Range: 2-1440

Default: 2

name

Description PCP Template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

pcp-server-port

Description PCP server listening port (default 5351) (PCP UDP destination port)

Type: number

Range: 1024-65535

Default: 5351

peer

Description PCP PEER Opcode (default is enabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-ip

Description Specify source IP address for IPv4 ANNOUNCE message

Type: string

Format: ipv4-address

source-ipv6

Description Specify source IPv6 address for IPv6 ANNOUNCE message

Type: string

Format: ipv6-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_http-alg-list

Specification	Value
Type	*list*
Block object keys	

header-name-client-ip

Description Header name (default: X-Forwarded-For)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: X-Forwarded-For

header-name-msisdn

Description Header name (default: X-MSISDN)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: X-MSISDN

include-tunnel-ip

Description Include the tunnel IP (applies to DS-Lite and 6RD-NAT64 sessions)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

method

Description 'append': Append if there is already a header (default); 'replace': Replace if there is already a header;

Type: string

Supported Values: append, replace

Default: append

name

Description HTTP-ALG template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

request-insert-client-ip

Description Insert Client IP into HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

request-insert-msisdn

Description Insert MSISDN into HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_dns-list

Specification	Value
Type	*list*
Block object keys	

class-list

Description: class-list is a **JSON Block**. Please see below for *template_dns-list_class-list*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/dns/{name}/class-list*

default-policy

Description 'nocache': Cache disable; 'cache': Cache enable;

Type: string

Supported Values: nocache, cache

Default: nocache

disable-dns-template

Description Disable DNS template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns64

Description: dns64 is a **JSON Block**. Please see below for *template_dns-list_dns64*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/dns/{name}/dns64*

drop

Description Drop the malformed query

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: drop and forward are mutually exclusive

forward

Description Forward to service group (Service group name)

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: forward and drop are mutually exclusive

max-cache-size

Description Define maximum cache size (Maximum cache entry per VIP)

Type: number

name

Description DNS Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

period

Description Period in minutes

Type: number

Range: 1-10000

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_dns-list_class-list

Specification	Value
Type	*object*

lid-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/dns/{name}/class-list/lid/{lidnum}*

name

Description Specify a class list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_dns-list_class-list_lid-list

Specification	Value
Type	*list*
Block object keys	

action-value

Description 'dns-cache-disable': Disable DNS cache when it exceeds limit; 'dns-cache-enable': Enable DNS cache when it exceeds limit; 'forward': Forward the traffic even it exceeds limit;

Type: string

Supported Values: dns-cache-disable, dns-cache-enable, forward

conn-rate-limit

Description Connection rate limit

Type: number

Range: 1-2147483647

dns

Description: dns is a **JSON Block**. Please see below for *template_dns-list_class-list_lid-list_dns*

Type: Object

lidnum

Description Specify a limit ID

Type: number

Range: 1-31

lockout

Description Don't accept any new connection for certain time (Lockout duration in minutes)

Type: number

Range: 1-1023

log

Description Log a message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-interval

Description Log interval (minute, by default system will log every over limit instance)

Type: number

Range: 1-255

over-limit-action

Description Action when exceeds limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per

Description Per (Number of 100ms)

Type: number

Range: 1-65535

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_dns-list_class-list_lid-list_dns

Specification	Value
Type	*object*

cache-action

Description 'cache-disable': Disable dns cache; 'cache-enable': Enable dns cache;

Type: string

Supported Values: cache-disable, cache-enable

Default: cache-disable

ttl

Description TTL for cache entry (TTL in seconds)

Type: number

Range: 1-65535

weight

Description Weight for cache entry

Type: number

Range: 1-7

template_dns-list_dns64

Specification	Value
Type	*object*

answer-only-disable

Description Disable Only translate the Answer Section

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-data

Description Set AA flag in DNS Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cache

Description Use a cached A-query response to provide AAAA query responses for the same hostname

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

change-query

Description Always change incoming AAAA DNS Query to A

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

compress-disable

Description Disable Always try DNS Compression

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deep-check-qr

Description Check DNS Question Record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deep-check-rr-disable

Description Disable Check DNS Response Records

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-cname-disable

Description Disable Drop DNS CNAME Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

edns-append

Description Append EDNS Record when send A Query to server

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable

Description Enable DNS64 (Need to config this option before config any other dns64 options)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fast-append

Description Append translated Records when original Response only has Answer Section

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ignore-rcode3-disable

Description Disable Ignore DNS error Response with rcode 3

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-qr-length

Description Max Question Record Length, default is 128

Type: number

Range: 1-1023

Default: 128

parallel-query

Description Forward AAAA Query & generate A Query in parallel

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

passive-query-disable

Description Disable Generate A query upon empty or error Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

retry

Description Retry count, default is 3 (Retry Number)

Type: number

Range: 0-15

Default: 3

single-response-disable

Description Disable Single Response which is used to avoid ambiguity

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Timeout to send additional Queries, unit: second, default is 1

Type: number

Range: 0-15

Default: 1

trans-ptr

Description Translate DNS PTR Records

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

trans-ptr-query

Description Translate DNS PTR Query

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ttl

Description Specify Max TTL in DNS Response, unit: second

Type: number

Range: 1-1000000000

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify name of the port list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-config

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list-list_port-config

Specification	Value
Type	*list*
Block object keys	

original-port

Description Original port to be translated

Type: number

Range: 0-65535

translated-port

Description Port after translation

Type: number

Range: 0-65535

nat64

Specification	Value
Type	*object*

alg

Description: alg is a **JSON Block**. Please see below for *nat64_alg*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg*

enhanced-user-tracking

Description: enhanced-user-tracking is a **JSON Block**. Please see below for *nat64_enhanced-user-tracking*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/enhanced-user-tracking*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *nat64_fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/fragmentation*

full-cone-session

Description: full-cone-session is a **JSON Block**. Please see below for *nat64_full-cone-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/full-cone-session*

global

Description: global is a **JSON Block**. Please see below for *nat64_global*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/global*

hw-accelerate

Description: hw-accelerate is a **JSON Block**. Please see below for *nat64_hw-accelerate*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/hw-accelerate*

prefix-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat64/prefix/{prefix-val}*

user-quota-session

Description: user-quota-session is a **JSON Block**. Please see below for *nat64_user-quota-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/user-quota-session*

nat64_fragmentation

Specification	Value
Type	*object*

df-bit-transparency

Description: df-bit-transparency is a **JSON Block**. Please see below for *nat64_fragmentation_df-bit-transparency*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency*

inbound

Description: inbound is a **JSON Block**. Please see below for *nat64_fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *nat64_fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/fragmentation/outbound*

nat64_fragmentation_inbound

Specification	Value
Type	*object*

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_fragmentation_outbound

Specification	Value
Type	*object*

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation (default); 'send-icmpv6': Send ICMPv6 Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_fragmentation_df-bit-transparency

Specification	Value
Type	*object*

df-bit-value

Description 'enable': Add an empty IPv6 fragmentation header if IPv4 DF bit is zero;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_full-cone-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_alg

Specification	Value
Type	*object*

esp

Description: esp is a **JSON Block**. Please see below for *nat64_alg_esp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/esp*

ftp

Description: ftp is a **JSON Block**. Please see below for *nat64_alg_ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/ftp*

h323

Description: h323 is a **JSON Block**. Please see below for *nat64_alg_h323*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/h323*

mgcp

Description: mgcp is a **JSON Block**. Please see below for *nat64_alg_mgcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/mgcp*

pptp

Description: pptp is a **JSON Block**. Please see below for *nat64_alg_pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/pptp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *nat64_alg_rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *nat64_alg_sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *nat64_alg_tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/tftp*

nat64_alg_ftp

Specification	Value
Type	*object*

ftp-enable

Description 'disable': Disable NAT64 FTP ALG;

Type: string

Supported Values: disable

trans-eprt-to-port

Description 'disable': disable;

Type: string

Supported Values: disable

trans-epsv-to-pasv

Description 'disable': disable;

Type: string

Supported Values: disable

trans-lprt-to-port

Description 'disable': disable;

Type: string

Supported Values: disable

trans-lpsv-to-pasv

Description 'disable': disable;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

xlat-no-trans-pasv

Description 'enable': enable;

Type: string

Supported Values: enable

nat64_alg_sip

Specification	Value
Type	*object*

sip-enable

Description 'enable': Enable NAT64 SIP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_alg_esp

Specification	Value
Type	*object*

esp-enable

Description 'enable': Enable NAT64 ESP ALG; 'enable-with-ctrl': Enable ESP NAT64 ALG with control session;

Type: string

Supported Values: enable, enable-with-ctrl

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_alg_esp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'nat-ip-conflict': NAT IP Conflict;

Type: string

Supported Values: all, session-created, nat-ip-conflict

nat64_alg_pptp

Specification	Value
Type	*object*

pptp-enable

Description 'enable': Enable NAT64 PPTP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_alg_rtsp

Specification	Value
Type	*object*

rtsp-enable

Description 'enable': Enable NAT64 RTSP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_alg_h323

Specification	Value
Type	*object*

h323-enable

Description 'enable': Enable NAT64 H323 ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_alg_tftp

Specification	Value
Type	*object*

tftp-enable

Description 'enable': Enable NAT64 TFTP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_alg_mgcp

Specification	Value
Type	*object*

mgcp-enable

Description 'enable': Enable NAT64 MGCP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_global

Specification	Value
Type	*object*

all

Description All packet sizes

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force-non-zero-ipv4-id

Description Enable non-zero ID field in IPv4 header if no IPv6 fragment & IPv4 pkt size is more than 88 & less than or equal to 1280 bytes

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmp

Description: icmp is a **JSON Block**. Please see below for *nat64_global_icmp*

Type: Object

inside

Description: inside is a **JSON Block**. Please see below for *nat64_global_inside*

Type: Object

sampling-enable

Type: List

tcp

Description: tcp is a **JSON Block**. Please see below for *nat64_global_tcp*

Type: Object

user-quota-prefix-length

Description User Quota Prefix Length (Default: 128)

Type: number

Range: 1-128

Default: 128

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_global_inside

Specification	Value
Type	*object*

source

Description: source is a **JSON Block**. Please see below for *nat64_global_inside_source*

Type: Object

nat64_global_inside_source

Specification	Value
Type	*object*

class-list

Description Class-list to match for NAT64

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nat64_global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_tcp_allocated': Total TCP Ports Allocated; 'total_tcp_freed': Total TCP Ports Freed; 'total_udp_allocated': Total UDP Ports Allocated; 'total_udp_freed': Total UDP Ports Freed; 'total_icmp_allocated': Total ICMP Ports Allocated; 'total_icmp_freed': Total ICMP Ports Freed; 'data_session_created': Data Session Created; 'data_session_freed': Data Session Freed; 'user_quota_created': User-Quota Created; 'user_quota_put_in_del_q': User-Quota Freed; 'user_quota_failure': User-Quota Creation Failed; 'nat_port_unavailable_tcp': TCP NAT Port Unavailable; 'nat_port_unavailable_udp': UDP NAT Port Unavailable; 'nat_port_unavailable_icmp': ICMP NAT Port Unavailable; 'new_user_resource_unavailable': New User NAT Resource Unavailable; 'tcp_user_quota_exceeded': TCP User-Quota Exceeded; 'udp_user_quota_exceeded': UDP User-Quota Exceeded; 'icmp_user_quota_exceeded': ICMP User-Quota Exceeded; 'extended_quota_matched': Extended User-Quota Matched; 'extended_quota_exceeded': Extended User-Quota Exceeded; 'data_sesn_user_quota_exceeded': Data Session User-Quota Exceeded; 'data_sesn_rate_user_quota_exceeded': Conn Rate User-Quota Exceeded; 'tcp_fullcone_created': TCP Full-cone Session Created; 'tcp_fullcone_freed': TCP Full-cone Session Freed; 'udp_fullcone_created': UDP Full-cone Session Created; 'udp_fullcone_freed': UDP Full-cone Session Freed; 'fullcone_failure': Full-cone Session Creation Failed; 'hairpin': Hairpin Session Created; 'fullcone_self_hairpinning_drop': Self-Hairpinning Drop; 'endpoint_indep_map_match': Endpoint-Independent Mapping Matched; 'endpoint_indep_filter_match': Endpoint-Independent Filtering Matched; 'inbound_filtered': Endpoint-Dependent Filtering Drop; 'eif_limit_exceeded': Endpoint-Independent Filtering Inbound Limit Exceeded; 'total_tcp_overloaded': TCP Port Overloaded; 'total_udp_overloaded': UDP Port Overloaded; 'port_overloading_smp_inserted_tcp': TCP Port Overloading Session Created; 'port_overloading_smp_inserted_udp': UDP Port Overloading Session Created; 'port_overloading_smp_free_tcp': TCP Port Overloading Session Freed; 'port_overloading_smp_free_udp': UDP Port Overloading Session Freed; 'nat_pool_unusable': NAT Pool Unusable; 'ha_nat_pool_unusable': HA NAT Pool Unusable; 'ha_nat_pool_batch_type_mismatch': HA NAT Pool Batch Type Mismatch; 'no_radius_profile_match': No RADIUS Profile Match; 'l3': Layer 3 Forwarded Packets; 'source_matches_prefix': Source Address Prefix Match Drop; 'lid_drop': LSN LID Drop; 'lid_pass_through': LSN LID Pass-through; 'no_class_list_match': No Class-List Match; 'user_quota_mem_allocated': User-Quota Memory Allocated; 'user_quota_mem_freed': User-Quota Memory Freed; 'user_quota_created_shadow': Total User-Quota Created; 'quota_marked_deleted': User-Quota Marked Deleted; 'quota_delete_not_in_bucket': User-Quota Delete Not In Bucket; 'user_quota_put_in_del_q_shadow': Total User-Quota Put In Del Q; 'prefix_quota_created': Total Prefix Quota Created; 'prefix_quota_put_in_del_q': Total Prefix Quota Freed; 'prefix_quota_failure': Total Prefix Quota Failure; 'total_user_quota_created': Total Quota Structure Created; 'total_user_quota_put_in_del_q': Total Quota Structure Freed; 'total_user_quota_failure': Total Quota Structure Failure; 'tcp_out_of_state_rst_sent': Total Out of State TCP RST sent; 'tcp_out_of_state_rst_dropped': Total Out of State TCP RST dropped; 'icmp_out_of_state_uqe_admin_filtered_sent': Total User Quota Exceeded ICMP admin filtered sent; 'icmp_out_of_state_uqe_host_unreachable_sent': Total User Quota Exceeded ICMP host unreachable sent; 'icmp_out_of_state_uqe_dropped': Total User Queue Exceeded ICMP notification dropped; 'user_quota_not_found':

User-Quota Not Found; 'tcp_fullcone_created_shadow': Total TCP Full-cone sessions created; 'tcp_fullcone_freed_shadow': Total TCP Full-cone sessions freed; 'udp_fullcone_created_shadow': Total UDP Full-cone sessions created; 'udp_fullcone_freed_shadow': Total UDP Full-cone sessions freed; 'udp_alg_fullcone_created': Total UDP ALG Full-cone sessions created; 'udp_alg_fullcone_freed': Total UDP ALG Full-cone sessions freed; 'fullcone_created': Total Full-cone sessions created; 'fullcone_freed': Total Full-cone sessions freed; 'data_session_created_shadow': Total Data Sessions Created; 'data_session_freed_shadow': Total Data Sessions Freed; 'data_session_user_quota_mismatch': Data Session Counter Per User Mismatch; 'extended_quota_mismatched': Extended User-Quota Mismatched; 'nat_port_unavailable_other': Other NAT Port Unavailable; 'nat_port_unavailable': Total NAT Port Unavailable; 'new_user_resource_unavailable_tcp': TCP New User NAT Resource Unavailable; 'new_user_resource_unavailable_udp': UDP New User NAT Resource Unavailable; 'new_user_resource_unavailable_icmp': ICMP New User NAT Resource Unavailable; 'new_user_resource_unavailable_other': Other New User NAT Resource Unavailable; 'total_tcp_allocated_shadow': Total TCP Ports Allocated; 'total_tcp_freed_shadow': Total TCP Ports Freed; 'total_udp_allocated_shadow': Total UDP Ports Allocated; 'total_udp_freed_shadow': Total UDP Ports Freed; 'total_icmp_allocated_shadow': Total ICMP Ports Allocated; 'total_icmp_freed_shadow': Total ICMP Ports Freed; 'udp_alg_no_quota': UDP ALG User-Quota Not Found; 'udp_alg_eim_mismatch': UDP ALG Endpoint-Independent Mapping Mismatch; 'udp_alg_no_nat_ip': UDP ALG User-Quota Unknown NAT IP; 'udp_alg_alloc_failure': UDP ALG Port Allocation Failure; 'sip_alg_no_quota': SIP ALG User-Quota Not Found; 'sip_alg_quota_inc_failure': SIP ALG User-Quota Exceeded; 'sip_alg_no_nat_ip': SIP ALG Unknown NAT IP; 'sip_alg_reuse_contact_fullcone': SIP ALG Reuse Contact Full-cone Session; 'sip_alg_contact_fullcone_mismatch': SIP ALG Contact Full-cone Session Mismatch; 'sip_alg_alloc_contact_port_failure': SIP ALG Alloc Contact NAT Port Failure; 'sip_alg_create_contact_fullcone_failure': SIP ALG Create Contact Full-cone Session Failure; 'sip_alg_release_contact_port_failure': SIP ALG Release Contact NAT Port Failure; 'sip_alg_single_rtp_fullcone': SIP ALG Single RTP Full-cone Found; 'sip_alg_single_rtcp_fullcone': SIP ALG Single RTCP Full-cone Found; 'sip_alg_rtcp_fullcone_mismatch': SIP ALG RTCP Full-cone NAT Port Mismatch; 'sip_alg_reuse_rtp_rtcp_fullcone': SIP ALG Reuse RTP/RTCP Full-cone Session; 'sip_alg_alloc_rtp_rtcp_port_failure': SIP ALG Alloc RTP/RTCP NAT Ports Failure; 'sip_alg_alloc_single_port_failure': SIP ALG Alloc Single RTP or RTCP NAT Port Failure; 'sip_alg_create_single_fullcone_failure': SIP ALG Create Single RTP or RTCP Full-cone Session Failure; 'sip_alg_create_rtp_fullcone_failure': SIP ALG Create RTP Full-cone Session Failure; 'sip_alg_create_rtcp_fullcone_failure': SIP ALG Create RTCP Full-cone Session Failure; 'sip_alg_port_pair_alloc_from_consecutive': SIP ALG Port Pair Allocated From Consecutive; 'sip_alg_port_pair_alloc_from_partition': SIP ALG Port Pair Allocated From Partition; 'sip_alg_port_pair_alloc_from_pool_port_batch': SIP ALG Port Pair Allocated From Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_consecutive': SIP ALG Port Pair Allocated From Quota Consecutive; 'sip_alg_port_pair_alloc_from_quota_partition': SIP ALG Port Pair Allocated From Quota Partition; 'sip_alg_port_pair_alloc_from_quota_partition_error': SIP ALG Port Pair Allocated From Quota Partition Error; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch': SIP ALG Port Pair Allocated From Quota Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag': SIP ALG Port Pair Allocated From Quota Port Batch Version 2 with Frag Free Ports;

Type: string

Supported Values: all, total_tcp_allocated, total_tcp_freed, total_udp_allocated, total_udp_freed, total_icmp_allocated, total_icmp_freed, data_session_created, data_session_freed, user_quota_created, user_quota_put_in_del_q, user_quota_failure, nat_port_unavailable_tcp, nat_port_unavailable_udp, nat_port_unavailable_icmp, new_user_resource_unavailable, tcp_user_quota_exceeded, udp_user_quota_exceeded,

icmp_user_quota_exceeded, extended_quota_matched, extended_quota_exceeded, data_sesn_user_quota_exceeded, data_sesn_rate_user_quota_exceeded, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_failure, hairpin, fullcone_self_hairpinning_drop, endpoint_indep_map_match, endpoint_indep_filter_match, inbound_filtered, eif_limit_exceeded, total_tcp_overloaded, total_udp_overloaded, port_overloading_smp_inserted_tcp, port_overloading_smp_inserted_udp, port_overloading_smp_free_tcp, port_overloading_smp_free_udp, nat_pool_unusable, ha_nat_pool_unusable, ha_nat_pool_batch_type_mismatch, no_radius_profile_match, l3, source_matches_prefix, lid_drop, lid_pass_through, no_class_list_match, user_quota_mem_allocated, user_quota_mem_freed, user_quota_created_shadow, quota_marked_deleted, quota_delete_not_in_bucket, user_quota_put_in_del_q_shadow, prefix_quota_created, prefix_quota_put_in_del_q, prefix_quota_failure, total_user_quota_created, total_user_quota_put_in_del_q, total_user_quota_failure, tcp_out_of_state_rst_sent, tcp_out_of_state_rst_dropped, icmp_out_of_state_uqe_admin_filtered_sent, icmp_out_of_state_uqe_host_unreachable_sent, icmp_out_of_state_uqe_dropped, user_quota_not_found, tcp_fullcone_created_shadow, tcp_fullcone_freed_shadow, udp_fullcone_created_shadow, udp_fullcone_freed_shadow, udp_alg_fullcone_created, udp_alg_fullcone_freed, fullcone_created, fullcone_freed, data_session_created_shadow, data_session_freed_shadow, data_session_user_quota_mismatch, extended_quota_mismatched, nat_port_unavailable_other, nat_port_unavailable, new_user_resource_unavailable_tcp, new_user_resource_unavailable_udp, new_user_resource_unavailable_icmp, new_user_resource_unavailable_other, total_tcp_allocated_shadow, total_tcp_freed_shadow, total_udp_allocated_shadow, total_udp_freed_shadow, total_icmp_allocated_shadow, total_icmp_freed_shadow, udp_alg_no_quota, udp_alg_eim_mismatch, udp_alg_no_nat_ip, udp_alg_alloc_failure, sip_alg_no_quota, sip_alg_quota_inc_failure, sip_alg_no_nat_ip, sip_alg_reuse_contact_fullcone, sip_alg_contact_fullcone_mismatch, sip_alg_alloc_contact_port_failure, sip_alg_create_contact_fullcone_failure, sip_alg_release_contact_port_failure, sip_alg_single_rtp_fullcone, sip_alg_single_rtcp_fullcone, sip_alg_rtcp_fullcone_mismatch, sip_alg_reuse_rtp_rtcp_fullcone, sip_alg_alloc_rtp_rtcp_port_failure, sip_alg_alloc_single_port_failure, sip_alg_create_single_fullcone_failure, sip_alg_create_rtp_fullcone_failure, sip_alg_create_rtcp_fullcone_failure, sip_alg_port_pair_alloc_from_consecutive, sip_alg_port_pair_alloc_from_partition, sip_alg_port_pair_alloc_from_pool_port_batch, sip_alg_port_pair_alloc_from_quota_consecutive, sip_alg_port_pair_alloc_from_quota_partition, sip_alg_port_pair_alloc_from_quota_partition_error, sip_alg_port_pair_alloc_from_quota_pool_port_batch, sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag

counters2

Description 'h323_alg_no_quota': H323 ALG User-Quota Not Found; 'h323_alg_quota_inc_failure': H323 ALG User-Quota Exceeded; 'h323_alg_no_nat_ip': H323 ALG Unknown NAT IP; 'h323_alg_reuse_fullcone': H323 ALG Reuse Full-cone Session; 'h323_alg_fullcone_mismatch': H323 ALG Full-cone Session Mismatch; 'h323_alg_alloc_port_failure': H323 ALG Alloc NAT Port Failure; 'h323_alg_create_fullcone_failure': H323 ALG Create Full-cone Session Failure; 'h323_alg_release_port_failure': H323 ALG Release NAT Port Failure; 'h323_alg_single_rtp_fullcone': H323 ALG Single RTP Full-cone Found; 'h323_alg_single_rtcp_fullcone': H323 ALG Single RTCP Full-cone Found; 'h323_alg_rtcp_fullcone_mismatch': H323 ALG RTCP Full-cone NAT Port Mismatch; 'h323_alg_reuse_rtp_rtcp_fullcone': H323 ALG Reuse RTP/RTCP Full-cone Session; 'h323_alg_alloc_rtp_rtcp_port_failure': H323 ALG Alloc RTP/RTCP NAT Ports Failure; 'h323_alg_alloc_single_port_failure': H323 ALG Alloc Single RTP or RTCP NAT Port Failure; 'h323_alg_create_single_fullcone_failure': H323 ALG Create Single RTP or RTCP Full-cone Session Failure;

'h323_alg_create_rtp_fullcone_failure': H323 ALG Create RTP Full-cone Session Failure; 'h323_alg_create_rtcp_fullcone_failure': H323 ALG Create RTCP Full-cone Session Failure; 'h323_alg_port_pair_alloc_from_consecutive': H323 ALG Port Pair Allocated From Consecutive; 'h323_alg_port_pair_alloc_from_partition': H323 ALG Port Pair Allocated From Partition; 'h323_alg_port_pair_alloc_from_pool_port_batch': H323 ALG Port Pair Allocated From Pool Port Batch; 'h323_alg_port_pair_alloc_from_quota_consecutive': H323 ALG Port Pair Allocated From Quota Consecutive; 'h323_alg_port_pair_alloc_from_quota_partition': H323 ALG Port Pair Allocated From Quota Partition; 'h323_alg_port_pair_alloc_from_quota_partition_error': H323 ALG Port Pair Allocated From Quota Partition Error; 'h323_alg_port_pair_alloc_from_quota_pool_port_batch': H323 ALG Port Pair Allocated From Quota Pool Port Batch; 'port_batch_quota_extension_alloc_failure': Port Batch Extension Alloc Failure (No memory); 'port_batch_free_quota_not_found': Port Batch Quota Not Found on Free; 'port_batch_free_port_not_found': Port Batch Port Not Found on Free; 'port_batch_free_wrong_partition': Port Batch Free Wrong Partition; 'radius_query_quota_ext_alloc_failure': RADIUS Query Container Alloc (No Memoty); 'radius_query_quota_ext_alloc_race_free': RADIUS Query Container Alloc Race Free; 'quota_extension_added': Quota Extension Added to Quota; 'quota_extension_removed': Quota Extension Removed from Quota; 'quota_extension_remove_not_found': Quota Extension Not Found on Remove; 'ha_sync_port_batch_sent': HA Port Batch Extension Sync Sent; 'ha_sync_port_batch_rcv': HA Port Batch Extension Sync Received; 'ha_send_port_batch_not_found': HA Port Batch Not Found on Sync Send; 'ha_rcv_port_not_in_port_batch': HA Port Not in Port Batch on Sync Rcv; 'bad_port_to_free': Freeing Bad Port; 'consecutive_port_free': Port Freed from Consecutive Pool; 'partition_port_free': Port Freed from Partition; 'pool_port_batch_port_free': Port Freed from Pool Port Batch; 'port_allocated_from_quota_consecutive': Port Allocated from Quota Consecutive; 'port_allocated_from_quota_partition': Port Allocated from Quota Partition; 'port_allocated_from_quota_pool_port_batch': Port Allocated from Quota Pool Port Batch; 'port_freed_from_quota_consecutive': Port Freed from Quota Consecutive; 'port_freed_from_quota_partition': Port Freed from Quota Partition; 'port_freed_from_quota_pool_port_batch': Port Freed from Quota Pool Port Batch; 'port_batch_allocated_to_quota': Port Batch Allocated to Quota; 'port_batch_freed_from_quota': Port Batch Freed From Quota; 'specific_port_allocated_from_quota_consecutive': Specific Port Allocated from Quota Consecutive; 'specific_port_allocated_from_quota_partition': Specific Port Allocated from Quota Partition; 'specific_port_allocated_from_quota_pool_port_batch': Specific Port Allocated from Quota Pool Port Batch; 'port_batch_container_alloc_failure': Port Batch Container Alloc Out of Memory; 'port_batch_container_alloc_race_free': Port Batch Container Race Free; 'port_overloading_destination_conflict': Port Overloading Destination Conflict; 'port_overloading_out_of_memory': Port Overloading Out of Memory; 'port_overloading_assign_user': Port Overloading Port Assign User; 'port_overloading_assign_user_port_batch': Port Overloading Port Assign User Port Batch; 'port_overloading_inc': Port Overloading Port Increment; 'port_overloading_dec_on_conflict': Port Overloading Port Decrement on Conflict; 'port_overloading_dec_on_free': Port Overloading Port Decrement on Free; 'port_overloading_free_port_on_conflict': Port Overloading Free Port on Conflict; 'port_overloading_free_port_batch_on_conflict': Port Overloading Free Port Batch on Conflict; 'port_overloading_inc_overflow': Port Overloading Inc Overflow; 'port_overloading_attempt_consecutive_ports': Port Overloading on Consecutive Ports; 'port_overloading_attempt_same_partition': Port Overloading on Same Partition; 'port_overloading_attempt_diff_partition': Port Overloading on Different Partition; 'port_overloading_attempt_failed': Port Overloading Attempt Failed; 'port_overloading_conn_free_retry_lookup': Port Overloading Conn Free Retry Lookup; 'port_overloading_conn_free_not_found': Port Overloading Conn Free

Not Found; 'port_overloading_smp_mem_allocated': Port Overloading SMP Session Allocated; 'port_overloading_smp_mem_freed': Port Overloading SMP Session Freed; 'port_overloading_smp_inserted': Port Overloading SMP Inserted; 'port_overloading_smp_inserted_tcp_shadow': Total Port Overloading SMP TCP Inserted; 'port_overloading_smp_inserted_udp_shadow': Total Port Overloading SMP UDP Inserted; 'port_overloading_smp_free_tcp_shadow': Total Port Overloading SMP TCP Freed; 'port_overloading_smp_free_udp_shadow': Total Port Overloading SMP UDP Freed; 'port_overloading_smp_put_in_del_q_from_conn': Port Overloading SMP Free From Conn; 'port_overloading_smp_free_dec_failure': Port Overloading SMP Free Dec Failure; 'port_overloading_smp_free_no_quota': Port Overloading SMP Free No Quota; 'port_overloading_smp_free_port': Port Overloading SMP Free Port; 'port_overloading_smp_free_port_from_quota': Port Overloading SMP Free Port From Quota; 'port_overloading_for_no_ports': Port Overloading for No Ports; 'port_overloading_for_no_ports_success': Port Overloading for No Ports Success; 'port_overloading_for_quota_exceeded': Port Overloading for Quota Exceeded; 'port_overloading_for_quota_exceeded_success': Port Overloading for Quota Exceeded Success; 'port_overloading_for_quota_exceeded_race': Port Overloading for Quota Exceeded Race; 'port_overloading_for_quota_exceeded_race_success': Port Overloading for Quota Exceeded Race Success; 'port_overloading_for_new_user': Port Overloading for New User; 'port_overloading_for_new_user_success': Port Overloading for New User Success; 'ha_port_overloading_attempt_failed': HA Port Overloading Attempt Failed; 'ha_port_overloading_for_no_ports': HA Port Overloading for No Ports; 'ha_port_overloading_for_no_ports_success': HA Port Overloading for No Ports Success; 'ha_port_overloading_for_quota_exceeded': HA Port Overloading for Quota Exceeded; 'ha_port_overloading_for_quota_exceeded_success': HA Port Overloading for Quota Exceeded Success; 'ha_port_overloading_for_quota_exceeded_race': HA Port Overloading for Quota Exceeded Race; 'ha_port_overloading_for_quota_exceeded_race_success': HA Port Overloading for Quota Exceeded Race Success; 'ha_port_overloading_for_new_user': HA Port Overloading for New User; 'ha_port_overloading_for_new_user_success': HA Port Overloading for New User Success;

Type: string

Supported Values: h323_alg_no_quota, h323_alg_quota_inc_failure, h323_alg_no_nat_ip, h323_alg_reuse_fullcone, h323_alg_fullcone_mismatch, h323_alg_alloc_port_failure, h323_alg_create_fullcone_failure, h323_alg_release_port_failure, h323_alg_single_rtp_fullcone, h323_alg_single_rtcp_fullcone, h323_alg_rtcp_fullcone_mismatch, h323_alg_reuse_rtp_rtcp_fullcone, h323_alg_alloc_rtp_rtcp_port_failure, h323_alg_alloc_single_port_failure, h323_alg_create_single_fullcone_failure, h323_alg_create_rtp_fullcone_failure, h323_alg_create_rtcp_fullcone_failure, h323_alg_port_pair_alloc_from_consecutive, h323_alg_port_pair_alloc_from_partition, h323_alg_port_pair_alloc_from_pool_port_batch, h323_alg_port_pair_alloc_from_quota_consecutive, h323_alg_port_pair_alloc_from_quota_partition, h323_alg_port_pair_alloc_from_quota_partition_error, h323_alg_port_pair_alloc_from_quota_pool_port_batch, port_batch_quota_extension_alloc_failure, port_batch_free_quota_not_found, port_batch_free_port_not_found, port_batch_free_wrong_partition, radius_query_quota_ext_alloc_failure, radius_query_quota_ext_alloc_race_free, quota_extension_added, quota_extension_removed, quota_extension_remove_not_found, ha_sync_port_batch_sent, ha_sync_port_batch_rcv, ha_send_port_batch_not_found, ha_rcv_port_not_in_port_batch, bad_port_to_free, consecutive_port_free, partition_port_free, pool_port_batch_port_free, port_allocated_from_quota_consecutive, port_allocated_from_quota_partition, port_allocated_from_quota_pool_port_batch, port_freed_from_quota_consecutive, port_freed_from_quota_partition, port_freed_from_quota_pool_port_batch, port_batch_allocated_to_quota, port_batch_freed_from_quota, spe-

cific_port_allocated_from_quota_consecutive, specific_port_allocated_from_quota_partition, specific_port_allocated_from_quota_pool_port_batch, port_batch_container_alloc_failure, port_batch_container_alloc_race_free, port_overloading_destination_conflict, port_overloading_out_of_memory, port_overloading_assign_user, port_overloading_assign_user_port_batch, port_overloading_inc, port_overloading_dec_on_conflict, port_overloading_dec_on_free, port_overloading_free_port_on_conflict, port_overloading_free_port_batch_on_conflict, port_overloading_inc_overflow, port_overloading_attempt_consecutive_ports, port_overloading_attempt_same_partition, port_overloading_attempt_diff_partition, port_overloading_attempt_failed, port_overloading_conn_free_retry_lookup, port_overloading_conn_free_not_found, port_overloading_smp_mem_allocated, port_overloading_smp_mem_freed, port_overloading_smp_inserted, port_overloading_smp_inserted_tcp_shadow, port_overloading_smp_inserted_udp_shadow, port_overloading_smp_free_tcp_shadow, port_overloading_smp_free_udp_shadow, port_overloading_smp_put_in_del_q_from_conn, port_overloading_smp_free_dec_failure, port_overloading_smp_free_no_quota, port_overloading_smp_free_port, port_overloading_smp_free_port_from_quota, port_overloading_for_no_ports, port_overloading_for_no_ports_success, port_overloading_for_quota_exceeded, port_overloading_for_quota_exceeded_success, port_overloading_for_quota_exceeded_race, port_overloading_for_quota_exceeded_race_success, port_overloading_for_new_user, port_overloading_for_new_user_success, ha_port_overloading_attempt_failed, ha_port_overloading_for_no_ports, ha_port_overloading_for_no_ports_success, ha_port_overloading_for_quota_exceeded, ha_port_overloading_for_quota_exceeded_success, ha_port_overloading_for_quota_exceeded_race, ha_port_overloading_for_quota_exceeded_race_success, ha_port_overloading_for_new_user, ha_port_overloading_for_new_user_success

counters3

Description 'nat_pool_force_delete': NAT Pool Force Delete; 'quota_ext_too_many': Quota Ext Too Many; 'nat_pool_not_found_on_free': NAT Pool Not Found on Free; 'standby_class_list_drop': Standby Class-List Drop; 'dst_prefix_mismatch': Destination Prefix Mismatch Drop; 'fullcone_inbound_nat_pool_mismatch': Full-cone Session NAT Pool Mismatch; '6rd_no_match_domain_drop': Sixrd Packets Domain Not Found; 'ha_prefix_not_found': HA No Matching Prefix Found; 'nat_pool_attempt_adding_multiple_free_batches': Attempt Adding Multiple Free Batches to Quota; 'nat_pool_add_free_batch_failed': Add Batch to Quota Failed; 'mgcp_alg_no_quota': MGCP ALG User-Quota Not Found; 'mgcp_alg_quota_inc_failure': MGCP ALG User-Quota Exceeded; 'mgcp_alg_no_nat_ip': MGCP ALG Unknown NAT IP; 'mgcp_alg_reuse_fullcone': MGCP ALG Reuse Full-cone Session; 'mgcp_alg_fullcone_mismatch': MGCP ALG Full-cone Session Mismatch; 'mgcp_alg_alloc_port_failure': MGCP ALG Alloc NAT Port Failure; 'mgcp_alg_create_fullcone_failure': MGCP ALG Create Full-cone Session Failure; 'mgcp_alg_release_port_failure': MGCP ALG Release NAT Port Failure; 'mgcp_alg_single_rtp_fullcone': MGCP ALG Single RTP Full-cone Found; 'mgcp_alg_single_rtcp_fullcone': MGCP ALG Single RTCP Full-cone Found; 'mgcp_alg_rtcp_fullcone_mismatch': MGCP ALG RTCP Full-cone NAT Port Mismatch; 'mgcp_alg_reuse_rtp_rtcp_fullcone': MGCP ALG Reuse RTP/RTCP Full-cone Session; 'mgcp_alg_alloc_rtp_rtcp_port_failure': MGCP ALG Alloc RTP/RTCP NAT Ports Failure; 'mgcp_alg_alloc_single_port_failure': MGCP ALG Alloc Single RTP or RTCP NAT Port Failure; 'mgcp_alg_create_single_fullcone_failure': MGCP ALG Create Single RTP or RTCP Full-cone Session Failure; 'mgcp_alg_create_rtp_fullcone_failure': MGCP ALG Create RTP Full-cone Session Failure; 'mgcp_alg_create_rtcp_fullcone_failure': MGCP ALG Create RTCP Full-cone Session Failure; 'mgcp_alg_port_pair_alloc_from_consecutive': MGCP ALG Port Pair Allocated From Consecutive; 'mgcp_alg_port_pair_alloc_from_partition': MGCP ALG Port Pair Allocated

From Partition; 'mgcp_alg_port_pair_alloc_from_pool_port_batch': MGCP ALG Port Pair Allocated From Pool Port Batch; 'mgcp_alg_port_pair_alloc_from_quota_consecutive': MGCP ALG Port Pair Allocated From Quota Consecutive; 'mgcp_alg_port_pair_alloc_from_quota_partition': MGCP ALG Port Pair Allocated From Quota Partition; 'mgcp_alg_port_pair_alloc_from_quota_partition_error': MGCP ALG Port Pair Allocated From Quota Partition Error; 'mgcp_alg_port_pair_alloc_from_quota_pool_port_batch': MGCP ALG Port Pair Allocated From Quota Pool Port Batch; 'user_quota_unusable_drop': User-Quota Unusable Drop; 'user_quota_unusable': User-Quota Marked Unusable; 'nat_pool_same_port_batch_udp_failed': Simultaneous Batch Allocation UDP Port Allocation Failed; 'adc_port_allocation_failed': ADC Port Allocation Failed; 'adc_port_allocation_ineligible': ADC Port Allocation Not Allowed; 'fwd_ingress_packets_tcp': Forward Ingress Packets TCP; 'fwd_egress_packets_tcp': Forward Egress Packets TCP; 'rev_ingress_packets_tcp': Reverse Ingress Packets TCP; 'rev_egress_packets_tcp': Reverse Egress Packets TCP; 'fwd_ingress_bytes_tcp': Forward Ingress Bytes TCP; 'fwd_egress_bytes_tcp': Forward Egress Bytes TCP; 'rev_ingress_bytes_tcp': Reverse Ingress Bytes TCP; 'rev_egress_bytes_tcp': Reverse Egress Bytes TCP; 'fwd_ingress_packets_udp': Forward Ingress Packets UDP; 'fwd_egress_packets_udp': Forward Egress Packets UDP; 'rev_ingress_packets_udp': Reverse Ingress Packets UDP; 'rev_egress_packets_udp': Reverse Egress Packets UDP; 'fwd_ingress_bytes_udp': Forward Ingress Bytes UDP; 'fwd_egress_bytes_udp': Forward Egress Bytes UDP; 'rev_ingress_bytes_udp': Reverse Ingress Bytes UDP; 'rev_egress_bytes_udp': Reverse Egress Bytes UDP; 'fwd_ingress_packets_icmp': Forward Ingress Packets ICMP; 'fwd_egress_packets_icmp': Forward Egress Packets ICMP; 'rev_ingress_packets_icmp': Reverse Ingress Packets ICMP; 'rev_egress_packets_icmp': Reverse Egress Packets ICMP; 'fwd_ingress_bytes_icmp': Forward Ingress Bytes ICMP; 'fwd_egress_bytes_icmp': Forward Egress Bytes ICMP; 'rev_ingress_bytes_icmp': Reverse Ingress Bytes ICMP; 'rev_egress_bytes_icmp': Reverse Egress Bytes ICMP; 'fwd_ingress_packets_others': Forward Ingress Packets OTHERS; 'fwd_egress_packets_others': Forward Egress Packets OTHERS; 'rev_ingress_packets_others': Reverse Ingress Packets OTHERS; 'rev_egress_packets_others': Reverse Egress Packets OTHERS; 'fwd_ingress_bytes_others': Forward Ingress Bytes OTHERS; 'fwd_egress_bytes_others': Forward Egress Bytes OTHERS; 'rev_ingress_bytes_others': Reverse Ingress Bytes OTHERS; 'rev_egress_bytes_others': Reverse Egress Bytes OTHERS; 'fwd_ingress_pkt_size_range1': Forward Ingress Packet size between 0 and 200; 'fwd_ingress_pkt_size_range2': Forward Ingress Packet size between 201 and 800; 'fwd_ingress_pkt_size_range3': Forward Ingress Packet size between 801 and 1550; 'fwd_ingress_pkt_size_range4': Forward Ingress Packet size between 1551 and 9000; 'fwd_egress_pkt_size_range1': Forward Egress Packet size between 0 and 200; 'fwd_egress_pkt_size_range2': Forward Egress Packet size between 201 and 800; 'fwd_egress_pkt_size_range3': Forward Egress Packet size between 801 and 1550; 'fwd_egress_pkt_size_range4': Forward Egress Packet size between 1551 and 9000; 'rev_ingress_pkt_size_range1': Reverse Ingress Packet size between 0 and 200; 'rev_ingress_pkt_size_range2': Reverse Ingress Packet size between 201 and 800; 'rev_ingress_pkt_size_range3': Reverse Ingress Packet size between 801 and 1550; 'rev_ingress_pkt_size_range4': Reverse Ingress Packet size between 1551 and 9000; 'rev_egress_pkt_size_range1': Reverse Egress Packet size between 0 and 200; 'rev_egress_pkt_size_range2': Reverse Egress Packet size between 201 and 800; 'rev_egress_pkt_size_range3': Reverse Egress Packet size between 801 and 1550; 'rev_egress_pkt_size_range4': Reverse Egress Packet size between 1551 and 9000; 'prefix_quota_mismatch': Prefix Quota NAT IP Mismatch;

Type: string

Supported Values: nat_pool_force_delete, quota_ext_too_many,

nat_pool_not_found_on_free, standby_class_list_drop, dst_prefix_mismatch, fullcone_inbound_nat_pool_mismatch, 6rd_no_match_domain_drop, ha_prefix_not_found, nat_pool_attempt_adding_multiple_free_batches, nat_pool_add_free_batch_failed, mgcp_alg_no_quota, mgcp_alg_quota_inc_failure, mgcp_alg_no_nat_ip, mgcp_alg_reuse_fullcone, mgcp_alg_fullcone_mismatch, mgcp_alg_alloc_port_failure, mgcp_alg_create_fullcone_failure, mgcp_alg_release_port_failure, mgcp_alg_single_rtp_fullcone, mgcp_alg_single_rtcp_fullcone, mgcp_alg_rtcp_fullcone_mismatch, mgcp_alg_reuse_rtp_rtcp_fullcone, mgcp_alg_alloc_rtp_rtcp_port_failure, mgcp_alg_alloc_single_port_failure, mgcp_alg_create_single_fullcone_failure, mgcp_alg_create_rtp_fullcone_failure, mgcp_alg_create_rtcp_fullcone_failure, mgcp_alg_port_pair_alloc_from_consecutive, mgcp_alg_port_pair_alloc_from_partition, mgcp_alg_port_pair_alloc_from_pool_port_batch, mgcp_alg_port_pair_alloc_from_quota_consecutive, mgcp_alg_port_pair_alloc_from_quota_partition, mgcp_alg_port_pair_alloc_from_quota_partition_error, mgcp_alg_port_pair_alloc_from_quota_pool_port_batch, user_quota_unusable_drop, user_quota_unusable, nat_pool_same_port_batch_udp_failed, adc_port_allocation_failed, adc_port_allocation_ineligible, fwd_ingress_packets_tcp, fwd_egress_packets_tcp, rev_ingress_packets_tcp, rev_egress_packets_tcp, fwd_ingress_bytes_tcp, fwd_egress_bytes_tcp, rev_ingress_bytes_tcp, rev_egress_bytes_tcp, fwd_ingress_packets_udp, fwd_egress_packets_udp, rev_ingress_packets_udp, rev_egress_packets_udp, fwd_ingress_bytes_udp, fwd_egress_bytes_udp, rev_ingress_bytes_udp, rev_egress_bytes_udp, fwd_ingress_packets_icmp, fwd_egress_packets_icmp, rev_ingress_packets_icmp, rev_egress_packets_icmp, fwd_ingress_bytes_icmp, fwd_egress_bytes_icmp, rev_ingress_bytes_icmp, rev_egress_bytes_icmp, fwd_ingress_packets_others, fwd_egress_packets_others, rev_ingress_packets_others, rev_egress_packets_others, fwd_ingress_bytes_others, fwd_egress_bytes_others, rev_ingress_bytes_others, rev_egress_bytes_others, fwd_ingress_pkt_size_range1, fwd_ingress_pkt_size_range2, fwd_ingress_pkt_size_range3, fwd_ingress_pkt_size_range4, fwd_egress_pkt_size_range1, fwd_egress_pkt_size_range2, fwd_egress_pkt_size_range3, fwd_egress_pkt_size_range4, rev_ingress_pkt_size_range1, rev_ingress_pkt_size_range2, rev_ingress_pkt_size_range3, rev_ingress_pkt_size_range4, rev_egress_pkt_size_range1, rev_egress_pkt_size_range2, rev_egress_pkt_size_range3, rev_egress_pkt_size_range4, prefix_quota_mismatch, port_overloading_port_tcp_inserted, port_overloading_port_udp_inserted, port_overloading_port_free_tcp, port_overloading_port_free_udp

nat64_global_tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *nat64_global_tcp_mss-clamp*

Type: Object

reset-on-error

Description: reset-on-error is a **JSON Block**. Please see below for *nat64_global_tcp_reset-on-error*

Type: Object

nat64_global_tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: 476))

Type: number

Range: 0-1420

Default: 476

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'none': No TCP MSS clamping; 'subtract': Specify the value to subtract from the TCP MSS (default: 20);

Type: string

Supported Values: fixed, none, subtract

Default: subtract

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: 20)

Type: number

Range: 0-1420

Default: 20

mss-value

Description The max value allowed for the TCP MSS (default: not configured)

Type: number

Range: 0-1420

nat64_global_tcp_reset-on-error

Specification	Value
Type	*object*

outbound

Description 'disable': Disable send TCP reset on error;

Type: string

Supported Values: disable

nat64_global_icmp

Specification	Value
Type	*object*

send-on-port-unavailable

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered; 'disable': Disable ICMP port unavailable message (default);

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: disable

send-on-user-quota-exceeded

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered (default); 'disable': Disable ICMP quota exceeded message;

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: admin-filtered

nat64_hw-accelerate

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_hw-accelerate_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'entry-create': HW Entries Created; 'entry-create-failure': HW Entry Creation Failed; 'entry-create-fail-server-down': HW Entry Creation Failed - server down; 'entry-create-fail-max-entry': HW Entry Creation Failed - max entries exceeded; 'entry-free': HW Entries Freed; 'entry-free-opp-entry': HW Entries Freed - opposite tuple entry aged-out; 'entry-free-no-hw-prog': HW Entry Freed - no HW prog; 'entry-free-no-conn': HW Entry Freed - no matched conn; 'entry-free-no-sw-entry': HW Entry Freed - no software entry; 'entry-counter': HW Entries Count; 'entry-age-out': HW Entries Aged Out; 'entry-age-out-idle': HW Entries Aged Out - idle timeout; 'entry-age-out-tcp-fin': HW Entries Aged Out - TCP FIN; 'entry-age-out-tcp-rst': HW Entries Aged Out - TCP RST; 'entry-age-out-invalid-dst': HW Entries Aged Out - invalid dst; 'entry-force-hw-invalidate': HW Entries Force HW Invalidate; 'entry-invalidate-server-down': HW Entries Invalidate due to server down; 'tcam-create': TCAM Flows Created; 'tcam-free': TCAM Flows Freed; 'tcam-counter': TCAM Flow Count;

Type: string

Supported Values: all, entry-create, entry-create-failure, entry-create-fail-server-down, entry-create-fail-max-entry, entry-free, entry-free-opp-entry, entry-free-no-hw-prog, entry-free-no-conn, entry-free-no-sw-entry, entry-counter, entry-age-out, entry-age-out-idle, entry-age-out-tcp-fin, entry-age-out-tcp-rst, entry-age-out-invalid-dst, entry-force-hw-invalidate, entry-invalidate-server-down, tcam-create, tcam-free, tcam-counter

nat64_prefix-list

Specification	Value
Type	*list*
Block object keys	

class-list

Description Class-list to match for NAT64

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

prefix-val

Description NAT64 Prefix

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

nat64_user-quota-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat64_enhanced-user-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite

Specification	Value
Type	*object*

alg

Description: alg is a **JSON Block**. Please see below for *ds-lite_alg*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *ds-lite_fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/fragmentation*

full-cone-session

Description: full-cone-session is a **JSON Block**. Please see below for *ds-lite_full-cone-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/full-cone-session*

global

Description: global is a **JSON Block**. Please see below for *ds-lite_global*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/global*

port-reservation-entries

Description: port-reservation-entries is a **JSON Block**. Please see below for *ds-lite_port-reservation-entries*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/port-reservation-entries*

port-reservation-list

Type: List

Reference Object: */axapi/v3/cgnv6/ds-lite/port-reservation/{inside}+{tunnel-dest-address}+{inside-addr}+{inside-start-port}+{inside-end-port}+{nat}+{nat-start-port}+{nat-end-port}*

user-quota-session

Description: user-quota-session is a **JSON Block**. Please see below for *ds-lite_user-quota-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/user-quota-session*

ds-lite_fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *ds-lite_fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *ds-lite_fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/fragmentation/outbound*

ds-lite_fragmentation_inbound

Specification	Value
Type	*object*

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 Fragmentation; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv4, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite_fragmentation_outbound

Specification	Value
Type	*object*

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 Fragmentation; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmp, send-icmpv6

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMPv6 Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite_full-cone-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite_alg

Specification	Value
Type	*object*

ftp

Description: ftp is a **JSON Block**. Please see below for *ds-lite_alg_ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/ftp*

h323

Description: h323 is a **JSON Block**. Please see below for *ds-lite_alg_h323*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/h323*

mgcp

Description: mgcp is a **JSON Block**. Please see below for *ds-lite_alg_mgcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/mgcp*

pptp

Description: pptp is a **JSON Block**. Please see below for *ds-lite_alg_pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/pptp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *ds-lite_alg_rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *ds-lite_alg_sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *ds-lite_alg_tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/tftp*

ds-lite_alg_ftp

Specification	Value
Type	*object*

ftp-enable

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite_alg_sip

Specification	Value
Type	*object*

sip-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite_alg_pptp

Specification	Value
Type	*object*

pptp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite_alg_rtsp

Specification	Value
Type	*object*

rtsp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite_alg_h323

Specification	Value
Type	*object*

h323-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite_alg_tftp

Specification	Value
Type	*object*

tftp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite_alg_mgcp

Specification	Value
Type	*object*

mgcp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite_global

Specification	Value
Type	*object*

icmp

Description: icmp is a **JSON Block**. Please see below for *ds-lite_global_icmp*

Type: Object

inside

Description: inside is a **JSON Block**. Please see below for *ds-lite_global_inside*

Type: Object

ip-checksum-error

Description 'fix': Fix the bad checksum (default); 'drop': Drop packets with a bad checksum;

Type: string

Supported Values: fix, drop

Default: fix

l4-checksum-error

Description 'propagate': Propagate the bad checksum (default); 'fix': Fix the bad checksum; 'drop': Drop packets with a bad checksum;

Type: string

Supported Values: propagate, fix, drop

Default: propagate

sampling-enable

Type: List

tcp

Description: tcp is a **JSON Block**. Please see below for *ds-lite_global_tcp*

Type: Object

user-quota-prefix-length

Description User Quota Prefix Length (Default: 128)

Type: number

Range: 1-128

Default: 128

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite_global_inside

Specification	Value
Type	*object*

source

Description: source is a **JSON Block**. Please see below for *ds-lite_global_inside_source*

Type: Object

ds-lite_global_inside_source

Specification	Value
Type	*object*

class-list

Description Class-list to match for DS-Lite

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ds-lite_global_tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *ds-lite_global_tcp_mss-clamp*

Type: Object

reset-on-error

Description: reset-on-error is a **JSON Block**. Please see below for *ds-lite_global_tcp_reset-on-error*

Type: Object

ds-lite_global_tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: ((576 - 60 - 60 - 40))))

Type: number

Range: 0-1420

Default: 416

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'none': No TCP MSS clamping; 'subtract': Specify the value to subtract from the TCP MSS (default: 40);

Type: string

Supported Values: fixed, none, subtract

Default: subtract

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: 40)

Type: number

Range: 0-1420

Default: 40

mss-value

Description The max value allowed for the TCP MSS (default: not configured)

Type: number

Range: 0-1420

ds-lite_global_tcp_reset-on-error

Specification	Value
Type	*object*

outbound

Description 'disable': Disable send TCP reset on error;

Type: string

Supported Values: disable

ds-lite_global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_tcp_allocated': Total TCP Ports Allocated; 'total_tcp_freed': Total TCP Ports Freed; 'total_udp_allocated': Total UDP Ports Allocated; 'total_udp_freed': Total UDP Ports Freed; 'total_icmp_allocated': Total ICMP Ports Allocated; 'total_icmp_freed': Total ICMP Ports Freed; 'data_session_created': Data Session Created; 'data_session_freed': Data Session Freed; 'user_quota_created': User-Quota Created; 'user_quota_put_in_del_q': User-Quota Freed; 'user_quota_failure': User-Quota Creation Failed; 'nat_port_unavailable_tcp': TCP NAT Port Unavailable; 'nat_port_unavailable_udp': UDP NAT Port Unavailable; 'nat_port_unavailable_icmp': ICMP NAT Port Unavailable; 'new_user_resource_unavailable': New User NAT Resource Unavailable; 'tcp_user_quota_exceeded': TCP User-Quota Exceeded; 'udp_user_quota_exceeded': UDP User-Quota Exceeded; 'icmp_user_quota_exceeded': ICMP User-Quota Exceeded; 'extended_quota_matched': Extended User-Quota Matched; 'extended_quota_exceeded': Extended User-Quota Exceeded; 'data_sesn_user_quota_exceeded': Data Session User-Quota Exceeded; 'data_sesn_rate_user_quota_exceeded': Conn Rate User-Quota Exceeded; 'tcp_fullcone_created': TCP Full-cone Session Created; 'tcp_fullcone_freed': TCP Full-cone Session Freed; 'udp_fullcone_created': UDP Full-cone Session Created; 'udp_fullcone_freed': UDP Full-cone Session Freed; 'fullcone_failure': Full-cone Session Creation Failed; 'hairpin': Hairpin Session Created; 'fullcone_self_hairpinning_drop':

Self-Hairpinning Drop; 'endpoint_indep_map_match': Endpoint-Independent Mapping Matched; 'endpoint_indep_filter_match': Endpoint-Independent Filtering Matched; 'inbound_filtered': Endpoint-Dependent Filtering Drop; 'eif_limit_exceeded': Endpoint-Independent Filtering Inbound Limit Exceeded; 'total_tcp_overloaded': TCP Port Overloaded; 'total_udp_overloaded': UDP Port Overloaded; 'port_overloading_smp_inserted_tcp': TCP Port Overloading Session Created; 'port_overloading_smp_inserted_udp': UDP Port Overloading Session Created; 'port_overloading_smp_free_tcp': TCP Port Overloading Session Freed; 'port_overloading_smp_free_udp': UDP Port Overloading Session Freed; 'nat_pool_unusable': NAT Pool Unusable; 'ha_nat_pool_unusable': HA NAT Pool Unusable; 'ha_nat_pool_batch_type_mismatch': HA NAT Pool Batch Type Mismatch; 'no_radius_profile_match': No RADIUS Profile Match; 'truncated_packet': Truncated Packet; 'lid_drop': LSN LID Drop; 'lid_pass_through': LSN LID Pass-through; 'no_class_list_match': No Class-List Match; 'class_list_permit_drop': Permit Class-List Drop; 'user_quota_mem_allocated': User-Quota Memory Allocated; 'user_quota_mem_freed': User-Quota Memory Freed; 'user_quota_created_shadow': Total User-Quota Created; 'quota_marked_deleted': User-Quota Marked Deleted; 'quota_delete_not_in_bucket': User-Quota Delete Not In Bucket; 'user_quota_put_in_del_q_shadow': Total User-Quota Put In Del Q; 'prefix_quota_created': Total Prefix Quota Created; 'prefix_quota_put_in_del_q': Total Prefix Quota Freed; 'prefix_quota_failure': Total Prefix Quota Failure; 'total_user_quota_created': Total Quota Structure Created; 'total_user_quota_put_in_del_q': Total Quota Structure Freed; 'total_user_quota_failure': Total Quota Structure Failure; 'tcp_out_of_state_rst_sent': Total Out of State TCP RST sent; 'tcp_out_of_state_rst_dropped': Total Out of State TCP RST dropped; 'icmp_out_of_state_uqe_admin_filtered_sent': Total User Quota Exceeded ICMP admin filtered sent; 'icmp_out_of_state_uqe_host_unreachable_sent': Total User Quota Exceeded ICMP host unreachable sent; 'icmp_out_of_state_uqe_dropped': Total User Queue Exceeded ICMP notification dropped; 'user_quota_not_found': User-Quota Not Found; 'tcp_fullcone_created_shadow': Total TCP Full-cone sessions created; 'tcp_fullcone_freed_shadow': Total TCP Full-cone sessions freed; 'udp_fullcone_created_shadow': Total UDP Full-cone sessions created; 'udp_fullcone_freed_shadow': Total UDP Full-cone sessions freed; 'udp_alg_fullcone_created': Total UDP ALG Full-cone sessions created; 'udp_alg_fullcone_freed': Total UDP ALG Full-cone sessions freed; 'fullcone_created': Total Full-cone sessions created; 'fullcone_freed': Total Full-cone sessions freed; 'data_session_created_shadow': Total Data Sessions Created; 'data_session_freed_shadow': Total Data Sessions Freed; 'data_session_user_quota_mismatch': Data Session Counter Per User Mismatch; 'extended_quota_mismatched': Extended User-Quota Mismatched; 'nat_port_unavailable_other': Other NAT Port Unavailable; 'nat_port_unavailable': Total NAT Port Unavailable; 'new_user_resource_unavailable_tcp': TCP New User NAT Resource Unavailable; 'new_user_resource_unavailable_udp': UDP New User NAT Resource Unavailable; 'new_user_resource_unavailable_icmp': ICMP New User NAT Resource Unavailable; 'new_user_resource_unavailable_other': Other New User NAT Resource Unavailable; 'total_tcp_allocated_shadow': Total TCP Ports Allocated; 'total_tcp_freed_shadow': Total TCP Ports Freed; 'total_udp_allocated_shadow': Total UDP Ports Allocated; 'total_udp_freed_shadow': Total UDP Ports Freed; 'total_icmp_allocated_shadow': Total ICMP Ports Allocated; 'total_icmp_freed_shadow': Total ICMP Ports Freed; 'udp_alg_no_quota': UDP ALG User-Quota Not Found; 'udp_alg_eim_mismatch': UDP ALG Endpoint-Independent Mapping Mismatch; 'udp_alg_no_nat_ip': UDP ALG User-Quota Unknown NAT IP; 'udp_alg_alloc_failure': UDP ALG Port Allocation Failure; 'sip_alg_no_quota': SIP ALG User-Quota Not Found; 'sip_alg_quota_inc_failure': SIP ALG User-Quota Exceeded; 'sip_alg_no_nat_ip': SIP ALG Unknown NAT IP; 'sip_alg_reuse_contact_fullcone': SIP ALG Reuse Contact Full-cone Session; 'sip_alg_contact_fullcone_mismatch': SIP ALG Contact Full-cone Session Mismatch; 'sip_alg_alloc_contact_port_failure': SIP ALG Alloc Contact NAT Port Failure; 'sip_alg_create_contact_fullcone_failure': SIP ALG

Create Contact Full-cone Session Failure; 'sip_alg_release_contact_port_failure': SIP ALG Release Contact NAT Port Failure; 'sip_alg_single_rtp_fullcone': SIP ALG Single RTP Full-cone Found; 'sip_alg_single_rtcp_fullcone': SIP ALG Single RTCP Full-cone Found; 'sip_alg_rtcp_fullcone_mismatch': SIP ALG RTCP Full-cone NAT Port Mismatch; 'sip_alg_reuse_rtp_rtcp_fullcone': SIP ALG Reuse RTP/RTCP Full-cone Session; 'sip_alg_alloc_rtp_rtcp_port_failure': SIP ALG Alloc RTP/RTCP NAT Ports Failure; 'sip_alg_alloc_single_port_failure': SIP ALG Alloc Single RTP or RTCP NAT Port Failure; 'sip_alg_create_single_fullcone_failure': SIP ALG Create Single RTP or RTCP Full-cone Session Failure; 'sip_alg_create_rtp_fullcone_failure': SIP ALG Create RTP Full-cone Session Failure; 'sip_alg_create_rtcp_fullcone_failure': SIP ALG Create RTCP Full-cone Session Failure; 'sip_alg_port_pair_alloc_from_consecutive': SIP ALG Port Pair Allocated From Consecutive; 'sip_alg_port_pair_alloc_from_partition': SIP ALG Port Pair Allocated From Partition; 'sip_alg_port_pair_alloc_from_pool_port_batch': SIP ALG Port Pair Allocated From Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_consecutive': SIP ALG Port Pair Allocated From Quota Consecutive; 'sip_alg_port_pair_alloc_from_quota_partition': SIP ALG Port Pair Allocated From Quota Partition; 'sip_alg_port_pair_alloc_from_quota_partition_error': SIP ALG Port Pair Allocated From Quota Partition Error; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch': SIP ALG Port Pair Allocated From Quota Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag': SIP ALG Port Pair Allocated From Quota Port Batch Version 2 with Frag Free Ports;

Type: string

Supported Values: all, total_tcp_allocated, total_tcp_freed, total_udp_allocated, total_udp_freed, total_icmp_allocated, total_icmp_freed, data_session_created, data_session_freed, user_quota_created, user_quota_put_in_del_q, user_quota_failure, nat_port_unavailable_tcp, nat_port_unavailable_udp, nat_port_unavailable_icmp, new_user_resource_unavailable, tcp_user_quota_exceeded, udp_user_quota_exceeded, icmp_user_quota_exceeded, extended_quota_matched, extended_quota_exceeded, data_sesn_user_quota_exceeded, data_sesn_rate_user_quota_exceeded, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_failure, hairpin, fullcone_self_hairpinning_drop, endpoint_indep_map_match, endpoint_indep_filter_match, inbound_filtered, eif_limit_exceeded, total_tcp_overloaded, total_udp_overloaded, port_overloading_smp_inserted_tcp, port_overloading_smp_inserted_udp, port_overloading_smp_free_tcp, port_overloading_smp_free_udp, nat_pool_unusable, ha_nat_pool_unusable, ha_nat_pool_batch_type_mismatch, no_radius_profile_match, truncated_packet, lid_drop, lid_pass_through, no_class_list_match, class_list_permit_drop, user_quota_mem_allocated, user_quota_mem_freed, user_quota_created_shadow, quota_marked_deleted, quota_delete_not_in_bucket, user_quota_put_in_del_q_shadow, prefix_quota_created, prefix_quota_put_in_del_q, prefix_quota_failure, total_user_quota_created, total_user_quota_put_in_del_q, total_user_quota_failure, tcp_out_of_state_rst_sent, tcp_out_of_state_rst_dropped, icmp_out_of_state_uqe_admin_filtered_sent, icmp_out_of_state_uqe_host_unreachable_sent, icmp_out_of_state_uqe_dropped, user_quota_not_found, tcp_fullcone_created_shadow, tcp_fullcone_freed_shadow, udp_fullcone_created_shadow, udp_fullcone_freed_shadow, udp_alg_fullcone_created, udp_alg_fullcone_freed, fullcone_created, fullcone_freed, data_session_created_shadow, data_session_freed_shadow, data_session_user_quota_mismatch, extended_quota_mismatched, nat_port_unavailable_other, nat_port_unavailable, new_user_resource_unavailable_tcp, new_user_resource_unavailable_udp, new_user_resource_unavailable_icmp, new_user_resource_unavailable_other, total_tcp_allocated_shadow, total_tcp_freed_shadow, total_udp_allocated_shadow, total_udp_freed_shadow, total_icmp_allocated_shadow, total_icmp_freed_shadow, udp_alg_no_quota, udp_alg_eim_mismatch, udp_alg_no_nat_ip, udp_alg_alloc_failure, sip_alg_no_quota, sip_alg_quota_inc_failure, sip_alg_no_nat_ip, sip_alg_reuse_contact_fullcone,

sip_alg_contact_fullcone_mismatch, sip_alg_alloc_contact_port_failure, sip_alg_create_contact_fullcone_failure, sip_alg_release_contact_port_failure, sip_alg_single_rtp_fullcone, sip_alg_single_rtcp_fullcone, sip_alg_rtcp_fullcone_mismatch, sip_alg_reuse_rtp_rtcp_fullcone, sip_alg_alloc_rtp_rtcp_port_failure, sip_alg_alloc_single_port_failure, sip_alg_create_single_fullcone_failure, sip_alg_create_rtp_fullcone_failure, sip_alg_create_rtcp_fullcone_failure, sip_alg_port_pair_alloc_from_consecutive, sip_alg_port_pair_alloc_from_partition, sip_alg_port_pair_alloc_from_pool_port_batch, sip_alg_port_pair_alloc_from_quota_consecutive, sip_alg_port_pair_alloc_from_quota_partition, sip_alg_port_pair_alloc_from_quota_partition_error, sip_alg_port_pair_alloc_from_quota_pool_port_batch, sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag

counters2

Description 'h323_alg_no_quota': H323 ALG User-Quota Not Found; 'h323_alg_quota_inc_failure': H323 ALG User-Quota Exceeded; 'h323_alg_no_nat_ip': H323 ALG Unknown NAT IP; 'h323_alg_reuse_fullcone': H323 ALG Reuse Full-cone Session; 'h323_alg_fullcone_mismatch': H323 ALG Full-cone Session Mismatch; 'h323_alg_alloc_port_failure': H323 ALG Alloc NAT Port Failure; 'h323_alg_create_fullcone_failure': H323 ALG Create Full-cone Session Failure; 'h323_alg_release_port_failure': H323 ALG Release NAT Port Failure; 'h323_alg_single_rtp_fullcone': H323 ALG Single RTP Full-cone Found; 'h323_alg_single_rtcp_fullcone': H323 ALG Single RTCP Full-cone Found; 'h323_alg_rtcp_fullcone_mismatch': H323 ALG RTCP Full-cone NAT Port Mismatch; 'h323_alg_reuse_rtp_rtcp_fullcone': H323 ALG Reuse RTP/RTCP Full-cone Session; 'h323_alg_alloc_rtp_rtcp_port_failure': H323 ALG Alloc RTP/RTCP NAT Ports Failure; 'h323_alg_alloc_single_port_failure': H323 ALG Alloc Single RTP or RTCP NAT Port Failure; 'h323_alg_create_single_fullcone_failure': H323 ALG Create Single RTP or RTCP Full-cone Session Failure; 'h323_alg_create_rtp_fullcone_failure': H323 ALG Create RTP Full-cone Session Failure; 'h323_alg_create_rtcp_fullcone_failure': H323 ALG Create RTCP Full-cone Session Failure; 'h323_alg_port_pair_alloc_from_consecutive': H323 ALG Port Pair Allocated From Consecutive; 'h323_alg_port_pair_alloc_from_partition': H323 ALG Port Pair Allocated From Partition; 'h323_alg_port_pair_alloc_from_pool_port_batch': H323 ALG Port Pair Allocated From Pool Port Batch; 'h323_alg_port_pair_alloc_from_quota_consecutive': H323 ALG Port Pair Allocated From Quota Consecutive; 'h323_alg_port_pair_alloc_from_quota_partition': H323 ALG Port Pair Allocated From Quota Partition; 'h323_alg_port_pair_alloc_from_quota_partition_error': H323 ALG Port Pair Allocated From Quota Partition Error; 'h323_alg_port_pair_alloc_from_quota_pool_port_batch': H323 ALG Port Pair Allocated From Quota Pool Port Batch; 'port_batch_quota_extension_alloc_failure': Port Batch Extension Alloc Failure (No memory); 'port_batch_free_quota_not_found': Port Batch Quota Not Found on Free; 'port_batch_free_port_not_found': Port Batch Port Not Found on Free; 'port_batch_free_wrong_partition': Port Batch Free Wrong Partition; 'radius_query_quota_ext_alloc_failure': RADIUS Query Container Alloc (No Memoty); 'radius_query_quota_ext_alloc_race_free': RADIUS Query Container Alloc Race Free; 'quota_extension_added': Quota Extension Added to Quota; 'quota_extension_removed': Quota Extension Removed from Quota; 'quota_extension_remove_not_found': Quota Extension Not Found on Remove; 'ha_sync_port_batch_sent': HA Port Batch Extension Sync Sent; 'ha_sync_port_batch_rcv': HA Port Batch Extension Sync Received; 'ha_send_port_batch_not_found': HA Port Batch Not Found on Sync Send; 'ha_rcv_port_not_in_port_batch': HA Port Not in Port Batch on Sync Rcv; 'bad_port_to_free': Freeing Bad Port; 'consecutive_port_free': Port Freed from Consecutive Pool; 'partition_port_free': Port Freed from Partition; 'pool_port_batch_port_free': Port Freed from Pool Port Batch; 'port_allocated_from_quota_consecutive': Port Allocated from Quota Consecutive; 'port_allocated_from_quota_partition': Port Allo-

cated from Quota Partition; 'port_allocated_from_quota_pool_port_batch': Port Allocated from Quota Pool Port Batch; 'port_freed_from_quota_consecutive': Port Freed from Quota Consecutive; 'port_freed_from_quota_partition': Port Freed from Quota Partition; 'port_freed_from_quota_pool_port_batch': Port Freed from Quota Pool Port Batch; 'port_batch_allocated_to_quota': Port Batch Allocated to Quota; 'port_batch_freed_from_quota': Port Batch Freed From Quota; 'specific_port_allocated_from_quota_consecutive': Specific Port Allocated from Quota Consecutive; 'specific_port_allocated_from_quota_partition': Specific Port Allocated from Quota Partition; 'specific_port_allocated_from_quota_pool_port_batch': Specific Port Allocated from Quota Pool Port Batch; 'port_batch_container_alloc_failure': Port Batch Container Alloc Out of Memory; 'port_batch_container_alloc_race_free': Port Batch Container Race Free; 'port_overloading_destination_conflict': Port Overloading Destination Conflict; 'port_overloading_out_of_memory': Port Overloading Out of Memory; 'port_overloading_assign_user': Port Overloading Port Assign User; 'port_overloading_assign_user_port_batch': Port Overloading Port Assign User Port Batch; 'port_overloading_inc': Port Overloading Port Increment; 'port_overloading_dec_on_conflict': Port Overloading Port Decrement on Conflict; 'port_overloading_dec_on_free': Port Overloading Port Decrement on Free; 'port_overloading_free_port_on_conflict': Port Overloading Free Port on Conflict; 'port_overloading_free_port_batch_on_conflict': Port Overloading Free Port Batch on Conflict; 'port_overloading_inc_overflow': Port Overloading Inc Overflow; 'port_overloading_attempt_consecutive_ports': Port Overloading on Consecutive Ports; 'port_overloading_attempt_same_partition': Port Overloading on Same Partition; 'port_overloading_attempt_diff_partition': Port Overloading on Different Partition; 'port_overloading_attempt_failed': Port Overloading Attempt Failed; 'port_overloading_conn_free_retry_lookup': Port Overloading Conn Free Retry Lookup; 'port_overloading_conn_free_not_found': Port Overloading Conn Free Not Found; 'port_overloading_smp_mem_allocated': Port Overloading SMP Session Allocated; 'port_overloading_smp_mem_freed': Port Overloading SMP Session Freed; 'port_overloading_smp_inserted': Port Overloading SMP Inserted; 'port_overloading_smp_inserted_tcp_shadow': Total Port Overloading SMP TCP Inserted; 'port_overloading_smp_inserted_udp_shadow': Total Port Overloading SMP UDP Inserted; 'port_overloading_smp_free_tcp_shadow': Total Port Overloading SMP TCP Freed; 'port_overloading_smp_free_udp_shadow': Total Port Overloading SMP UDP Freed; 'port_overloading_smp_put_in_del_q_from_conn': Port Overloading SMP Free From Conn; 'port_overloading_smp_free_dec_failure': Port Overloading SMP Free Dec Failure; 'port_overloading_smp_free_no_quota': Port Overloading SMP Free No Quota; 'port_overloading_smp_free_port': Port Overloading SMP Free Port; 'port_overloading_smp_free_port_from_quota': Port Overloading SMP Free Port From Quota; 'port_overloading_for_no_ports': Port Overloading for No Ports; 'port_overloading_for_no_ports_success': Port Overloading for No Ports Success; 'port_overloading_for_quota_exceeded': Port Overloading for Quota Exceeded; 'port_overloading_for_quota_exceeded_success': Port Overloading for Quota Exceeded Success; 'port_overloading_for_quota_exceeded_race': Port Overloading for Quota Exceeded Race; 'port_overloading_for_quota_exceeded_race_success': Port Overloading for Quota Exceeded Race Success; 'port_overloading_for_new_user': Port Overloading for New User; 'port_overloading_for_new_user_success': Port Overloading for New User Success; 'ha_port_overloading_attempt_failed': HA Port Overloading Attempt Failed; 'ha_port_overloading_for_no_ports': HA Port Overloading for No Ports; 'ha_port_overloading_for_no_ports_success': HA Port Overloading for No Ports Success; 'ha_port_overloading_for_quota_exceeded': HA Port Overloading for Quota Exceeded; 'ha_port_overloading_for_quota_exceeded_success': HA Port Overloading for Quota Exceeded Success; 'ha_port_overloading_for_quota_exceeded_race': HA Port Overloading for Quota Exceeded Race; 'ha_port_overloading_for_quota_exceeded_race_success': HA Port

Overloading for Quota Exceeded Race Success; 'ha_port_overloading_for_new_user': HA Port Overloading for New User; 'ha_port_overloading_for_new_user_success': HA Port Overloading for New User Success;

Type: string

Supported Values: h323_alg_no_quota, h323_alg_quota_inc_failure, h323_alg_no_nat_ip, h323_alg_reuse_fullcone, h323_alg_fullcone_mismatch, h323_alg_alloc_port_failure, h323_alg_create_fullcone_failure, h323_alg_release_port_failure, h323_alg_single_rtp_fullcone, h323_alg_single_rtcp_fullcone, h323_alg_rtcp_fullcone_mismatch, h323_alg_reuse_rtp_rtcp_fullcone, h323_alg_alloc_rtp_rtcp_port_failure, h323_alg_alloc_single_port_failure, h323_alg_create_single_fullcone_failure, h323_alg_create_rtp_fullcone_failure, h323_alg_create_rtcp_fullcone_failure, h323_alg_port_pair_alloc_from_consecutive, h323_alg_port_pair_alloc_from_partition, h323_alg_port_pair_alloc_from_pool_port_batch, h323_alg_port_pair_alloc_from_quota_consecutive, h323_alg_port_pair_alloc_from_quota_partition, h323_alg_port_pair_alloc_from_quota_partition_error, h323_alg_port_pair_alloc_from_quota_pool_port_batch, port_batch_quota_extension_alloc_failure, port_batch_free_quota_not_found, port_batch_free_port_not_found, port_batch_free_wrong_partition, radius_query_quota_ext_alloc_failure, radius_query_quota_ext_alloc_race_free, quota_extension_added, quota_extension_removed, quota_extension_remove_not_found, ha_sync_port_batch_sent, ha_sync_port_batch_rcv, ha_send_port_batch_not_found, ha_rcv_port_not_in_port_batch, bad_port_to_free, consecutive_port_free, partition_port_free, pool_port_batch_port_free, port_allocated_from_quota_consecutive, port_allocated_from_quota_partition, port_allocated_from_quota_pool_port_batch, port_freed_from_quota_consecutive, port_freed_from_quota_partition, port_freed_from_quota_pool_port_batch, port_batch_allocated_to_quota, port_batch_freed_from_quota, specific_port_allocated_from_quota_consecutive, specific_port_allocated_from_quota_partition, specific_port_allocated_from_quota_pool_port_batch, port_batch_container_alloc_failure, port_batch_container_alloc_race_free, port_overloading_destination_conflict, port_overloading_out_of_memory, port_overloading_assign_user, port_overloading_assign_user_port_batch, port_overloading_inc, port_overloading_dec_on_conflict, port_overloading_dec_on_free, port_overloading_free_port_on_conflict, port_overloading_free_port_batch_on_conflict, port_overloading_inc_overflow, port_overloading_attempt_consecutive_ports, port_overloading_attempt_same_partition, port_overloading_attempt_diff_partition, port_overloading_attempt_failed, port_overloading_conn_free_retry_lookup, port_overloading_conn_free_not_found, port_overloading_smp_mem_allocated, port_overloading_smp_mem_freed, port_overloading_smp_inserted, port_overloading_smp_inserted_tcp_shadow, port_overloading_smp_inserted_udp_shadow, port_overloading_smp_free_tcp_shadow, port_overloading_smp_free_udp_shadow, port_overloading_smp_put_in_del_q_from_conn, port_overloading_smp_free_dec_failure, port_overloading_smp_free_no_quota, port_overloading_smp_free_port, port_overloading_smp_free_port_from_quota, port_overloading_for_no_ports, port_overloading_for_no_ports_success, port_overloading_for_quota_exceeded, port_overloading_for_quota_exceeded_success, port_overloading_for_quota_exceeded_race, port_overloading_for_quota_exceeded_race_success, port_overloading_for_new_user, port_overloading_for_new_user_success, ha_port_overloading_attempt_failed, ha_port_overloading_for_no_ports, ha_port_overloading_for_no_ports_success, ha_port_overloading_for_quota_exceeded, ha_port_overloading_for_quota_exceeded_success, ha_port_overloading_for_quota_exceeded_race, ha_port_overloading_for_quota_exceeded_race_success, ha_port_overloading_for_new_user, ha_port_overloading_for_new_user_success

counters3

Description 'nat_pool_force_delete': NAT Pool Force Delete; 'quota_ext_too_many': Quota Ext Too Many; 'nat_pool_not_found_on_free': NAT Pool Not Found on Free; 'standby_class_list_drop': Standby Class-List Drop; 'fullcone_inbound_nat_pool_mismatch': Full-cone Session NAT Pool Mismatch; 'bad_ip_tot_len': Bad IPv4 Total Length; 'ip_checksum_verified': IP Checksum Verified; 'ip_checksum_fixed': IP Checksum Fixed; 'ip_checksum_bad_drop': IP Checksum Bad Drop; 'ip_frag_checksum_fixed': IP Frag Checksum Fixed; 'l4_checksum_verified': L4 Checksum Verified; 'l4_checksum_fixed': L4 Checksum Fixed; 'l4_checksum_bad_drop': L4 Checksum Bad Drop; 'jumbo_list_bad_l4_len': Jumbo List Bad L4 Len; 'frag_list_bad_l4_len': Frag List Bad L4 Len; 'nat_pool_attempt_adding_multiple_free_batches': Attempt Adding Multiple Free Batches to Quota; 'nat_pool_add_free_batch_failed': Add Batch to Quota Failed; 'mgcp_alg_no_quota': MGCP ALG User-Quota Not Found; 'mgcp_alg_quota_inc_failure': MGCP ALG User-Quota Exceeded; 'mgcp_alg_no_nat_ip': MGCP ALG Unknown NAT IP; 'mgcp_alg_reuse_fullcone': MGCP ALG Reuse Full-cone Session; 'mgcp_alg_fullcone_mismatch': MGCP ALG Full-cone Session Mismatch; 'mgcp_alg_alloc_port_failure': MGCP ALG Alloc NAT Port Failure; 'mgcp_alg_create_fullcone_failure': MGCP ALG Create Full-cone Session Failure; 'mgcp_alg_release_port_failure': MGCP ALG Release NAT Port Failure; 'mgcp_alg_single_rtp_fullcone': MGCP ALG Single RTP Full-cone Found; 'mgcp_alg_single_rtcp_fullcone': MGCP ALG Single RTCP Full-cone Found; 'mgcp_alg_rtcp_fullcone_mismatch': MGCP ALG RTCP Full-cone NAT Port Mismatch; 'mgcp_alg_reuse_rtp_rtcp_fullcone': MGCP ALG Reuse RTP/RTCP Full-cone Session; 'mgcp_alg_alloc_rtp_rtcp_port_failure': MGCP ALG Alloc RTP/RTCP NAT Ports Failure; 'mgcp_alg_alloc_single_port_failure': MGCP ALG Alloc Single RTP or RTCP NAT Port Failure; 'mgcp_alg_create_single_fullcone_failure': MGCP ALG Create Single RTP or RTCP Full-cone Session Failure; 'mgcp_alg_create_rtp_fullcone_failure': MGCP ALG Create RTP Full-cone Session Failure; 'mgcp_alg_create_rtcp_fullcone_failure': MGCP ALG Create RTCP Full-cone Session Failure; 'mgcp_alg_port_pair_alloc_from_consecutive': MGCP ALG Port Pair Allocated From Consecutive; 'mgcp_alg_port_pair_alloc_from_partition': MGCP ALG Port Pair Allocated From Partition; 'mgcp_alg_port_pair_alloc_from_pool_port_batch': MGCP ALG Port Pair Allocated From Pool Port Batch; 'mgcp_alg_port_pair_alloc_from_quota_consecutive': MGCP ALG Port Pair Allocated From Quota Consecutive; 'mgcp_alg_port_pair_alloc_from_quota_partition': MGCP ALG Port Pair Allocated From Quota Partition; 'mgcp_alg_port_pair_alloc_from_quota_partition_error': MGCP ALG Port Pair Allocated From Quota Partition Error; 'mgcp_alg_port_pair_alloc_from_quota_pool_port_batch': MGCP ALG Port Pair Allocated From Quota Pool Port Batch; 'user_quota_unusable_drop': User-Quota Unusable Drop; 'user_quota_unusable': User-Quota Marked Unusable; 'nat_pool_same_port_batch_udp_failed': Simultaneous Batch Allocation UDP Port Allocation Failed; 'fwd_ingress_packets_tcp': Forward Ingress Packets TCP; 'fwd_egress_packets_tcp': Forward Egress Packets TCP; 'rev_ingress_packets_tcp': Reverse Ingress Packets TCP; 'rev_egress_packets_tcp': Reverse Egress Packets TCP; 'fwd_ingress_bytes_tcp': Forward Ingress Bytes TCP; 'fwd_egress_bytes_tcp': Forward Egress Bytes TCP; 'rev_ingress_bytes_tcp': Reverse Ingress Bytes TCP; 'rev_egress_bytes_tcp': Reverse Egress Bytes TCP; 'fwd_ingress_packets_udp': Forward Ingress Packets UDP; 'fwd_egress_packets_udp': Forward Egress Packets UDP; 'rev_ingress_packets_udp': Reverse Ingress Packets UDP; 'rev_egress_packets_udp': Reverse Egress Packets UDP; 'fwd_ingress_bytes_udp': Forward Ingress Bytes UDP; 'fwd_egress_bytes_udp': Forward Egress Bytes UDP; 'rev_ingress_bytes_udp': Reverse Ingress Bytes UDP; 'rev_egress_bytes_udp': Reverse Egress Bytes UDP; 'fwd_ingress_packets_icmp': Forward Ingress Packets ICMP; 'fwd_egress_packets_icmp': Forward Egress Packets ICMP; 'rev_ingress_packets_icmp': Reverse Ingress Packets ICMP; 'rev_egress_packets_icmp': Reverse Egress Packets ICMP;

'fwd_ingress_bytes_icmp': Forward Ingress Bytes ICMP; 'fwd_egress_bytes_icmp': Forward Egress Bytes ICMP; 'rev_ingress_bytes_icmp': Reverse Ingress Bytes ICMP; 'rev_egress_bytes_icmp': Reverse Egress Bytes ICMP; 'fwd_ingress_packets_others': Forward Ingress Packets OTHERS; 'fwd_egress_packets_others': Forward Egress Packets OTHERS; 'rev_ingress_packets_others': Reverse Ingress Packets OTHERS; 'rev_egress_packets_others': Reverse Egress Packets OTHERS; 'fwd_ingress_bytes_others': Forward Ingress Bytes OTHERS; 'fwd_egress_bytes_others': Forward Egress Bytes OTHERS; 'rev_ingress_bytes_others': Reverse Ingress Bytes OTHERS; 'rev_egress_bytes_others': Reverse Egress Bytes OTHERS; 'fwd_ingress_pkt_size_range1': Forward Ingress Packet size between 0 and 200; 'fwd_ingress_pkt_size_range2': Forward Ingress Packet size between 201 and 800; 'fwd_ingress_pkt_size_range3': Forward Ingress Packet size between 801 and 1550; 'fwd_ingress_pkt_size_range4': Forward Ingress Packet size between 1551 and 9000; 'fwd_egress_pkt_size_range1': Forward Egress Packet size between 0 and 200; 'fwd_egress_pkt_size_range2': Forward Egress Packet size between 201 and 800; 'fwd_egress_pkt_size_range3': Forward Egress Packet size between 801 and 1550; 'fwd_egress_pkt_size_range4': Forward Egress Packet size between 1551 and 9000; 'rev_ingress_pkt_size_range1': Reverse Ingress Packet size between 0 and 200; 'rev_ingress_pkt_size_range2': Reverse Ingress Packet size between 201 and 800; 'rev_ingress_pkt_size_range3': Reverse Ingress Packet size between 801 and 1550; 'rev_ingress_pkt_size_range4': Reverse Ingress Packet size between 1551 and 9000; 'rev_egress_pkt_size_range1': Reverse Egress Packet size between 0 and 200; 'rev_egress_pkt_size_range2': Reverse Egress Packet size between 201 and 800; 'rev_egress_pkt_size_range3': Reverse Egress Packet size between 801 and 1550; 'rev_egress_pkt_size_range4': Reverse Egress Packet size between 1551 and 9000; 'prefix_quota_mismatch': Prefix Quota NAT IP Mismatch;

Type: string

Supported Values: nat_pool_force_delete, quota_ext_too_many, nat_pool_not_found_on_free, standby_class_list_drop, full-cone_inbound_nat_pool_mismatch, bad_ip_tot_len, ip_checksum_verified, ip_checksum_fixed, ip_checksum_bad_drop, ip_frag_checksum_fixed, l4_checksum_verified, l4_checksum_fixed, l4_checksum_bad_drop, jumbo_list_bad_l4_len, frag_list_bad_l4_len, nat_pool_attempt_adding_multiple_free_batches, nat_pool_add_free_batch_failed, mgcp_alg_no_quota, mgcp_alg_quota_inc_failure, mgcp_alg_no_nat_ip, mgcp_alg_reuse_fullcone, mgcp_alg_fullcone_mismatch, mgcp_alg_alloc_port_failure, mgcp_alg_create_fullcone_failure, mgcp_alg_release_port_failure, mgcp_alg_single_rtp_fullcone, mgcp_alg_single_rtcp_fullcone, mgcp_alg_rtcp_fullcone_mismatch, mgcp_alg_reuse_rtp_rtcp_fullcone, mgcp_alg_alloc_rtp_rtcp_port_failure, mgcp_alg_alloc_single_port_failure, mgcp_alg_create_single_fullcone_failure, mgcp_alg_create_rtp_fullcone_failure, mgcp_alg_create_rtcp_fullcone_failure, mgcp_alg_port_pair_alloc_from_consecutive, mgcp_alg_port_pair_alloc_from_partition, mgcp_alg_port_pair_alloc_from_pool_port_batch, mgcp_alg_port_pair_alloc_from_quota_consecutive, mgcp_alg_port_pair_alloc_from_quota_partition, mgcp_alg_port_pair_alloc_from_quota_partition_error, mgcp_alg_port_pair_alloc_from_quota_pool_port_batch, user_quota_unusable_drop, user_quota_unusable, nat_pool_same_port_batch_udp_failed, fwd_ingress_packets_tcp, fwd_egress_packets_tcp, rev_ingress_packets_tcp, rev_egress_packets_tcp, fwd_ingress_bytes_tcp, fwd_egress_bytes_tcp, rev_ingress_bytes_tcp, rev_egress_bytes_tcp, fwd_ingress_packets_udp, fwd_egress_packets_udp, rev_ingress_packets_udp, rev_egress_packets_udp, fwd_ingress_bytes_udp, fwd_egress_bytes_udp, rev_ingress_bytes_udp, rev_egress_bytes_udp, fwd_ingress_packets_icmp, fwd_egress_packets_icmp, rev_ingress_packets_icmp, rev_egress_packets_icmp, fwd_ingress_bytes_icmp, fwd_egress_bytes_icmp, rev_ingress_bytes_icmp, rev_egress_bytes_icmp, fwd_ingress_packets_others, fwd_egress_packets_others,

rev_ingress_packets_others, rev_egress_packets_others, fwd_ingress_bytes_others, fwd_egress_bytes_others, rev_ingress_bytes_others, rev_egress_bytes_others, fwd_ingress_pkt_size_range1, fwd_ingress_pkt_size_range2, fwd_ingress_pkt_size_range3, fwd_ingress_pkt_size_range4, fwd_egress_pkt_size_range1, fwd_egress_pkt_size_range2, fwd_egress_pkt_size_range3, fwd_egress_pkt_size_range4, rev_ingress_pkt_size_range1, rev_ingress_pkt_size_range2, rev_ingress_pkt_size_range3, rev_ingress_pkt_size_range4, rev_egress_pkt_size_range1, rev_egress_pkt_size_range2, rev_egress_pkt_size_range3, rev_egress_pkt_size_range4, prefix_quota_mismatch, port_overloading_port_tcp_inserted, port_overloading_port_udp_inserted, port_overloading_port_free_tcp, port_overloading_port_free_udp

ds-lite_global_icmp

Specification	Value
Type	*object*

send-on-port-unavailable

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered; 'disable': Disable ICMP port unavailable message (default);

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: disable

send-on-user-quota-exceeded

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered (default); 'disable': Disable ICMP quota exceeded message;

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: admin-filtered

ds-lite_port-reservation-list

Specification	Value
Type	*list*
Block object keys	

inside

Description Inside User Address and Port Range (DS-Lite Inside User's Tunnel Source IPv6 Address)

Type: string

Format: ipv6-address

inside-addr

Description Inside User IP address

Type: string

Format: ipv4-address

inside-end-port

Description Inside End Port

Type: number

Range: 1-65535

inside-start-port

Description Inside Start Port

Type: number

Range: 1-65535

nat

Description NAT Port Range (NAT IP address)

Type: string

Format: ipv4-address

nat-end-port

Description NAT End Port

Type: number

Range: 1-65535

nat-start-port

Description NAT Start Port

Type: number

Range: 1-65535

tunnel-dest-address

Description DS-Lite Inside User's Tunnel Destination IPv6 Address

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite_user-quota-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ds-lite_port-reservation-entries

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns64-virtualserver-list

Specification	Value
Type	*list*
Block object keys	

enable-disable-action

Description 'enable': Enable Virtual Server (default); 'disable': Disable Virtual Server;

Type: string

Supported Values: enable, disable

Default: enable

ethernet

Description Ethernet interface

Type: number

Format: interface

ip-address

Description IP Address

Type: string

Format: ipv4-address

Mutual Exclusion: ip-address, ipv6-address, and use-if-ip are mutually exclusive

ipv6-address

Description IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-address, ip-address, and use-if-ip are mutually exclusive

name

Description CGNV6 Virtual Server Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

netmask

Description IP subnet mask

Type: string

Format: ipv4-netmask-brief

policy

Description Policy template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-list

Type: List

Reference Object: */axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}*

template-policy

Description Policy template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/policy*

use-if-ip

Description Use Interface IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: use-if-ip, ipv6-address, and ip-address are mutually exclusive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Join a vrrp group (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

dns64-virtualserver-list_port-list

Specification	Value
Type	*list*
Block object keys	

acl-id-list

Type: List

acl-name-list

Type: List

action

Description 'enable': Enable; 'disable': Disable;

Type: string

Supported Values: enable, disable

Default: enable

auto

Description Configure auto NAT for the vport

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/cgnv6-dns64-vs-port-tmpl*

pool

Description Specify NAT pool or pool group

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

port-number

Description Port

Type: number

Range: 0-65534

precedence

Description Set auto NAT pool as higher precedence for source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

protocol

Description 'dns-udp': DNS service over UDP;

Type: string

Supported Values: dns-udp

sampling-enable

Type: List

service-group

Description Bind a Service Group to this Virtual Server (Service Group Name)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/service-group*

template-dns

Description DNS template (DNS template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/dns*

template-policy

Description Policy Template (Policy template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/policy*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns64-virtualserver-list_port-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr_conn': Current connection; 'total_l4_conn': Total L4 connections; 'total_l7_conn': Total L7 connections; 'toatal_tcp_conn': Total TCP connections; 'total_conn': Total connections; 'total_fwd_bytes': Total forward bytes; 'total_fwd_pkts': Total forward packets; 'total_rev_bytes': Total reverse bytes; 'total_rev_pkts': Total reverse packets; 'total_dns_pkts': Total DNS packets; 'total_mf_dns_pkts': Total MF DNS packets; 'es_total_failure_actions': Total failure actions; 'compression_bytes_before': Data into compression engine; 'compression_bytes_after': Data out of compression engine; 'compression_hit': Number of requests compressed; 'compression_miss': Number of requests NOT compressed; 'compression_miss_no_client': Compression miss no client; 'compression_miss_template_exclusion': Compression miss template exclusion; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total successful requests; 'peak_conn': Peak connections; 'curr_conn_rate': Current connection rate; 'last_rsp_time': Last response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time;

Type: string

Supported Values: all, curr_conn, total_l4_conn, total_l7_conn, toatal_tcp_conn, total_conn, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_dns_pkts, total_mf_dns_pkts, es_total_failure_actions, compression_bytes_before, compression_bytes_after, compression_hit, compression_miss, compression_miss_no_client, compression_miss_template_exclusion, curr_req, total_req, total_req_succ, peak_conn, curr_conn_rate, last_rsp_time, fastest_rsp_time, slowest_rsp_time

dns64-virtualserver-list_port-list_acl-name-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description Apply an access list name (Named Access List)

Type: string

Format: string-rlx

Maximum Length: 16 characters

Maximum Length: 1 characters

acl-name-seq-num

Description Specify ACL precedence (sequence-number)

Type: number

Range: 1-32

acl-name-src-nat-pool

Description Policy based Source NAT (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dns64-virtualserver-list_port-list_acl-id-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id VPORT

Type: number

Range: 1-199

acl-id-seq-num

Description Specify ACL precedence (sequence-number)

Type: number

Range: 1-32

acl-id-src-nat-pool

Description Policy based Source NAT (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

scaleout

Specification	Value
Type	*object*

address-mapping

Description: address-mapping is a **JSON Block**. Please see below for *scaleout_address-mapping*

Type: Object

Reference Object: */axapi/v3/cgnv6/scaleout/address-mapping*

nat-ip-hashing-scheme

Description: nat-ip-hashing-scheme is a **JSON Block**. Please see below for *scaleout_nat-ip-hashing-scheme*

Type: Object

Reference Object: */axapi/v3/cgnv6/scaleout/nat-ip-hashing-scheme*

scaleout_address-mapping

Specification	Value
Type	*object*

inside-user-or-nat-ip

Description: inside-user-or-nat-ip is a **JSON Block**. Please see below for *scaleout_address-mapping_inside-user-or-nat-ip*

Type: Object

Reference Object: */axapi/v3/cgnv6/scaleout/address-mapping/inside-user-or-nat-ip*

nat-pool-or-fixed-nat

Description: nat-pool-or-fixed-nat is a **JSON Block**. Please see below for *scaleout_address-mapping_nat-pool-or-fixed-nat*

Type: Object

Reference Object: */axapi/v3/cgnv6/scaleout/address-mapping/nat-pool-or-fixed-nat*

scaleout_address-mapping_nat-pool-or-fixed-nat

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

scaleout_address-mapping_inside-user-or-nat-ip

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

scaleout_nat-ip-hashing-scheme

Specification	Value
Type	*object*

hashing-type

Description 'route-aggregation': Chunk contiguous NAT IPs for route aggregation(default); 'mod-user-groups': Hash NAT IPs by taking mod of user-groups;

Type: string

Supported Values: route-aggregation, mod-user-groups

Default: route-aggregation

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nptv6

Specification	Value
Type	*object*

common

Description: common is a **JSON Block**. Please see below for *nptv6_common*

Type: Object

Reference Object: */axapi/v3/cgnv6/nptv6/common*

domain-list

Type: List

Reference Object: */axapi/v3/cgnv6/nptv6/domain/{name}*

nptv6_domain-list

Specification	Value
Type	*list*
Block object keys	

inside-prefix

Description Configure inside network prefix (Inside IPv6 network prefix)

Type: string

Format: ipv6-address-plen

name

Description Name of NPTv6 domain

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

outside-prefix

Description Configure outside network prefix (Outside IPv6 network prefix)

Type: string

Format: ipv6-address-plen

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nptv6_domain-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'outbound-packets': Outbound Packets; 'inbound-packets': Inbound Packets; 'hairpin-packets': Hairpin Packets; 'address-not-valid-for-translation': Address Not Valid For Translation; 'inbound-packets-no-map': Inbound Packets No Map; 'packets-dest-unreachable': Packets Destination Unreachable;

Type: string

Supported Values: all, outbound-packets, inbound-packets, hairpin-packets, address-not-valid-for-translation, inbound-packets-no-map, packets-dest-unreachable

nptv6_common

Specification	Value
Type	*object*

send-icmpv6-on-error

Description 'disable': Disable to send ICMPv6 when error discovered;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

resource-usage

Specification	Value
Type	*object*

fixed-nat-inside-user-count

Description Total configurable CGNV6 Fixed NAT inside users

Type: number

fixed-nat-ip-addr-count

Description Total configurable CGNV6 Fixed NAT addresses

Type: number

lsn-nat-addr-count

Description Total configurable CGNV6 NAT Pool addresses

Type: number

radius-table-size

Description Total configurable CGNV6 RADIUS Table entries

Type: number

stateless-entries

Description: stateless-entries is a **JSON Block**. Please see below for *resource-usage_stateless-entries*

Type: Object

Reference Object: */axapi/v3/cgnv6/resource-usage/stateless-entries*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

resource-usage_stateless-entries

Specification	Value
Type	*object*

l4-session-count

Description Helper size for CGN Stateless Technologies

Type: number

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

one-to-one

Specification	Value
Type	*object*

global

Description: global is a **JSON Block**. Please see below for *one-to-one_global*

Type: Object

Reference Object: */axapi/v3/cgnv6/one-to-one/global*

mapping

Description: mapping is a **JSON Block**. Please see below for *one-to-one_mapping*

Type: Object

Reference Object: */axapi/v3/cgnv6/one-to-one/mapping*

pool-group-list

Type: List

Reference Object: */axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}*

pool-list

Type: List

Reference Object: */axapi/v3/cgnv6/one-to-one/pool/{pool-name}*

shared-pool

Description: shared-pool is a **JSON Block**. Please see below for *one-to-one_shared-pool*

Type: Object

Reference Object: */axapi/v3/cgnv6/one-to-one/shared-pool*

shared-pool-group

Description: shared-pool-group is a **JSON Block**. Please see below for *one-to-one_shared-pool-group*

Type: Object

Reference Object: */axapi/v3/cgnv6/one-to-one/shared-pool-group*

one-to-one_shared-pool

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

one-to-one_pool-group-list

Specification	Value
Type	*list*
Block object keys	

member-list

Type: List

Reference Object: */axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}/member/{pool-name}*

pool-group-name

Description Specify pool group name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Specify VRRP-A vrid

Type: number

Range: 1-31

one-to-one_pool-group-list_member-list

Specification	Value
Type	*list*
Block object keys	

pool-name

Description Specify CGNv6 one-to-one pool name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

one-to-one_global

Specification	Value
Type	*object*

mapping-timeout

Description Configure timeout for the one-to-one NAT mapping (Timeout in minutes (default: 10 minutes))

Type: number

Range: 0-180

Default: 10

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

one-to-one_global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total-map-allocated': Total One-to-One Address Mapping Allocated; 'total-map-freed': Total One-to-One Address Mapping Freed; 'map-alloc-failure': One-to-One Address Mapping Allocation Failure; 'map-dbl-free': Address Mapping Double Free; 'alloc-map-race': Mapping Exists When Allocating Address Mapping; 'map-not-found': Mapping to be Released Not Found; 'ha-map-mismatch': HA Standby Mapping Mismatch; 'ha-select-addr-failure': HA Standby Allocate Address Failure; 'ha-alloc-map-conflicts': HA Standby Allocate Mapping Conflicts;

Type: string

Supported Values: all, total-map-allocated, total-map-freed, map-alloc-failure, map-dbl-free, alloc-map-race, map-not-found, ha-map-mismatch, ha-select-addr-failure, ha-alloc-map-conflicts

one-to-one_mapping

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

one-to-one_shared-pool-group

Specification	Value
Type	*object*

members

Description: members is a **JSON Block**. Please see below for *one-to-one_shared-pool-group_members*

Type: Object

Reference Object: */axapi/v3/cgnv6/one-to-one/shared-pool-group/members*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

one-to-one_shared-pool-group_members

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

one-to-one_pool-list

Specification	Value
Type	*list*
Block object keys	

end-address

Description Configure end IP address of NAT pool

Type: string

Format: ipv4-address

group

Description Share with a partition group (Partition Group Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

netmask

Description Configure mask for pool

Type: string

Format: ipv4-netmask-brief

partition

Description Share with a single partition (Partition Name)

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

pool-name

Description Specify pool name or pool group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description Share this pool with other partitions (default: not shared)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-address

Description Configure start IP address of NAT pool

Type: string

Format: ipv4-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Configure VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

logging

Specification	Value
Type	*object*

nat-quota-exceeded

Description: nat-quota-exceeded is a **JSON Block**. Please see below for *logging_nat-quota-exceeded*

Type: Object

Reference Object: */axapi/v3/cgnv6/logging/nat-quota-exceeded*

nat-resource-exhausted

Description: nat-resource-exhausted is a **JSON Block**. Please see below for *logging_nat-resource-exhausted*

Type: Object

Reference Object: */axapi/v3/cgnv6/logging/nat-resource-exhausted*

pool-based-log

Description: pool-based-log is a **JSON Block**. Please see below for *logging_pool-based-log*

Type: Object

Reference Object: */axapi/v3/cgnv6/logging/pool-based-log*

sampling-enable

Type: List

source-address

Description: source-address is a **JSON Block**. Please see below for *logging_source-address*

Type: Object

Reference Object: */axapi/v3/cgnv6/logging/source-address*

tcp-svr-status

Description: tcp-svr-status is a **JSON Block**. Please see below for *logging_tcp-svr-status*

Type: Object

Reference Object: */axapi/v3/cgnv6/logging/tcp-svr-status*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging_tcp-svr-status

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging_source-address

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging_nat-quota-exceeded

Specification	Value
Type	*object*

level

Description 'warning': Log level Warning (Default); 'critical': Log level Critical; 'notice': Log level Notice;

Type: string

Supported Values: warning, critical, notice

Default: warning

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'tcp-session-created': TCP Session Created; 'tcp-session-deleted': TCP Session Deleted; 'tcp-port-allocated': TCP Port Allocated; 'tcp-port-freed': TCP Port Freed; 'tcp-port-batch-allocated': TCP Port Batch Allocated; 'tcp-port-batch-freed': TCP Port Batch Freed; 'udp-session-created': UDP Session Created; 'udp-session-deleted': UDP Session Deleted; 'udp-port-allocated': UDP Port Allocated; 'udp-port-freed': UDP Port Freed; 'udp-port-batch-allocated': UDP Port Batch Allocated; 'udp-port-batch-freed': UDP Port Batch Freed; 'icmp-session-created': ICMP Session Created; 'icmp-session-deleted': ICMP Session Deleted; 'icmp-resource-allocated': ICMP Resource Allocated; 'icmp-resource-freed': ICMP Resource Freed; 'icmpv6-session-created': ICMPV6 Session Created; 'icmpv6-session-deleted': ICMPV6 Session Deleted; 'icmpv6-resource-allocated': ICMPV6 Resource Allocated; 'icmpv6-resource-freed': ICMPV6 Resource Freed; 'gre-session-created': GRE Session Created; 'gre-session-deleted': GRE Session Deleted; 'gre-resource-allocated': GRE Resource Allocated; 'gre-resource-freed': GRE Resource Freed; 'esp-session-created': ESP Session Created; 'esp-session-deleted': ESP Session Deleted; 'esp-resource-allocated': ESP Resource Allocated; 'esp-resource-freed': ESP Resource Freed; 'fixed-nat-user-ports': Fixed NAT Inside User Port Mapping; 'fixed-nat-disable-config-logged': Fixed NAT Periodic Configs Logged; 'fixed-nat-disable-config-logs-sent': Fixed NAT Periodic Config Logs Sent; 'fixed-nat-periodic-config-logs-sent': Fixed NAT Disabled Configs Logged; 'fixed-nat-periodic-config-logged': Fixed NAT Disabled Config Logs Sent; 'fixed-nat-interim-updated': Fixed NAT Interim Updated; 'enhanced-user-log': Enhanced User Log; 'log-sent': Log Packets Sent; 'log-dropped': Log Packets Dropped; 'conn-tcp-established': TCP Connection Established; 'conn-tcp-dropped': TCP Connection Lost; 'tcp-port-overloading-allocated': TCP Port

Overloading Allocated; 'tcp-port-overloading-freed': TCP Port Overloading Freed; 'udp-port-overloading-allocated': UDP Port Overloading Allocated; 'udp-port-overloading-freed': UDP Port Overloading Freed; 'http-request-logged': HTTP Request Logged; 'reduced-logs-by-destination': Reduced Logs by Destination Protocol and Port; 'out-of-buffers': Out of Buffers; 'add-msg-failed': Add Message to Buffer Failed; 'rtsp-port-allocated': RTSP UDP Port Allocated; 'rtsp-port-freed': RTSP UDP Port Freed; 'conn-tcp-create-failed': TCP Connection Failed; 'ipv4-frag-applied': IPv4 Fragmentation Applied; 'ipv4-frag-failed': IPv4 Fragmentation Failed; 'ipv6-frag-applied': IPv6 Fragmentation Applied; 'ipv6-frag-failed': IPv6 Fragmentation Failed; 'interim-update-scheduled': Port Allocation Interim Update Scheduled; 'interim-update-schedule-failed': Port Allocation Interim Update Failed; 'interim-update-terminated': Port Allocation Interim Update Terminated; 'interim-update-memory-freed': Port Allocation Interim Update Memory Freed; 'interim-update-no-buff-retried': Port Allocation Interim Update Memory Freed; 'tcp-port-batch-interim-updated': TCP Port Batch Interim Updated; 'udp-port-batch-interim-updated': UDP Port Batch Interim Updated; 'port-block-accounting-freed': Port Allocation Accounting Freed; 'port-block-accounting-allocated': Port Allocation Accounting Allocated; 'log-message-too-long': Log message too long; 'http-out-of-order-dropped': HTTP out-of-order dropped; 'http-alloc-failed': HTTP Request Info Allocation Failed; 'http-frag-merge-failed-dropped': HTTP frag merge failed dropped; 'http-malloc': HTTP mem allocate; 'http-mfree': HTTP mem free; 'http-spm-alloc-type0': HTTP Conn SPM Type 0 allocate; 'http-spm-alloc-type1': HTTP Conn SPM Type 1 allocate; 'http-spm-alloc-type2': HTTP Conn SPM Type 2 allocate; 'http-spm-alloc-type3': HTTP Conn SPM Type 3 allocate; 'http-spm-alloc-type4': HTTP Conn SPM Type 4 allocate; 'http-spm-free-type0': HTTP Conn SPM Type 0 free; 'http-spm-free-type1': HTTP Conn SPM Type 1 free; 'http-spm-free-type2': HTTP Conn SPM Type 2 free; 'http-spm-free-type3': HTTP Conn SPM Type 3 free; 'http-spm-free-type4': HTTP Conn SPM Type 4 free; 'iddos-l3-entry-create': iDDoS L3 Entry Created; 'iddos-l3-entry-delete': iDDoS L3 Entry Deleted; 'iddos-l4-entry-create': iDDoS L4 Entry Created; 'iddos-l4-entry-delete': iDDoS L4 Entry Deleted;

Type: string

Supported Values: all, tcp-session-created, tcp-session-deleted, tcp-port-allocated, tcp-port-freed, tcp-port-batch-allocated, tcp-port-batch-freed, udp-session-created, udp-session-deleted, udp-port-allocated, udp-port-freed, udp-port-batch-allocated, udp-port-batch-freed, icmp-session-created, icmp-session-deleted, icmp-resource-allocated, icmp-resource-freed, icmpv6-session-created, icmpv6-session-deleted, icmpv6-resource-allocated, icmpv6-resource-freed, gre-session-created, gre-session-deleted, gre-resource-allocated, gre-resource-freed, esp-session-created, esp-session-deleted, esp-resource-allocated, esp-resource-freed, fixed-nat-user-ports, fixed-nat-disable-config-logged, fixed-nat-disable-config-logs-sent, fixed-nat-periodic-config-logs-sent, fixed-nat-periodic-config-logged, fixed-nat-interim-updated, enhanced-user-log, log-sent, log-dropped, conn-tcp-established, conn-tcp-dropped, tcp-port-overloading-allocated, tcp-port-overloading-freed, udp-port-overloading-allocated, udp-port-overloading-freed, http-request-logged, reduced-logs-by-destination, out-of-buffers, add-msg-failed, rtsp-port-allocated, rtsp-port-freed, conn-tcp-create-failed, ipv4-frag-applied, ipv4-frag-failed, ipv6-frag-applied, ipv6-frag-failed, interim-update-scheduled, interim-update-schedule-failed, interim-update-terminated, interim-update-memory-freed, interim-update-no-buff-retried, tcp-port-batch-interim-updated, udp-port-batch-interim-updated, port-block-accounting-freed, port-block-accounting-allocated, log-message-too-long, http-out-of-order-dropped, http-alloc-failed, http-frag-merge-failed-dropped, http-malloc, http-mfree, http-spm-alloc-type0, http-spm-alloc-type1, http-spm-alloc-type2, http-spm-alloc-type3, http-spm-alloc-type4, http-spm-free-type0, http-spm-free-type1, http-spm-free-type2, http-spm-free-type3, http-spm-free-type4, iddos-l3-entry-create, iddos-l3-entry-delete, iddos-l4-entry-create, iddos-l4-entry-delete

logging_pool-based-log

Specification	Value
Type	*object*

cycle

Description Logging cycle

Type: number

Range: 0-1800

Default: 30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging_nat-resource-exhausted

Specification	Value
Type	*object*

level

Description 'warning': Log level Warning; 'critical': Log level Critical (Default); 'notice': Log level Notice;

Type: string

Supported Values: warning, critical, notice

Default: critical

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn-rule-list-list

Specification	Value
Type	*list*
Block object keys	

default

Description: default is a **JSON Block**. Please see below for *lsn-rule-list-list_default*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn-rule-list/{name}/default*

domain-ip

Description: domain-ip is a **JSON Block**. Please see below for *lsn-rule-list-list_domain-ip*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip*

domain-list-name-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}*

domain-name-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}*

http-match-domain-name

Description Enable match domain name in http request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}*

name

Description LSN Rule-List Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn-rule-list-list_domain-ip

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn-rule-list-list_domain-ip_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

lsn-rule-list-list_default

Specification	Value
Type	*object*

rule-cfg

Type: List

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn-rule-list-list_default_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

lsn-rule-list-list_default_rule-cfg

Specification	Value
Type	*list*
Block object keys	

dscp-cfg

Description: dscp-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_default_rule-cfg_dscp-cfg*

Type: Object

icmp-others-cfg

Description: icmp-others-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_default_rule-cfg_icmp-others-cfg*

Type: Object

proto

Description 'tcp': TCP L4 Protocol; 'udp': UDP L4 Protocol; 'icmp': ICMP L4 Protocol; 'others': Other L4 Protocol; 'dscp': Match DSCP Value; 'default': Default Action;

Type: string

Supported Values: tcp, udp, icmp, others, dscp, default

tcp-cfg

Description: tcp-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_default_rule-cfg_tcp-cfg*

Type: Object

udp-cfg

Description: udp-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_default_rule-cfg_udp-cfg*

Type: Object

lsn-rule-list-list_default_rule-cfg_dscp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action;

Type: string

Supported Values: action

action-type

Description 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-match

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); 'any': Match any dscp value; '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14':

001110; ‘15’: 001111; ‘16’: 010000; ‘17’: 010001; ‘18’: 010010; ‘19’: 010011; ‘20’: 010100; ‘21’: 010101; ‘22’: 010110; ‘23’: 010111; ‘24’: 011000; ‘25’: 011001; ‘26’: 011010; ‘27’: 011011; ‘28’: 011100; ‘29’: 011101; ‘30’: 011110; ‘31’: 011111; ‘32’: 100000; ‘33’: 100001; ‘34’: 100010; ‘35’: 100011; ‘36’: 100100; ‘37’: 100101; ‘38’: 100110; ‘39’: 100111; ‘40’: 101000; ‘41’: 101001; ‘42’: 101010; ‘43’: 101011; ‘44’: 101100; ‘45’: 101101; ‘46’: 101110; ‘47’: 101111; ‘48’: 110000; ‘49’: 110001; ‘50’: 110010; ‘51’: 110011; ‘52’: 110100; ‘53’: 110101; ‘54’: 110110; ‘55’: 110111; ‘56’: 111000; ‘57’: 111001; ‘58’: 111010; ‘59’: 111011; ‘60’: 111100; ‘61’: 111101; ‘62’: 111110; ‘63’: 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, any, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description ‘default’: Default dscp (000000); ‘af11’: AF11 (001010); ‘af12’: AF12 (001100); ‘af13’: AF13 (001110); ‘af21’: AF21 (010010); ‘af22’: AF22 (010100); ‘af23’: AF23 (010110); ‘af31’: AF31 (011010); ‘af32’: AF32 (011100); ‘af33’: AF33 (011110); ‘af41’: AF41 (100010); ‘af42’: AF42 (100100); ‘af43’: AF43 (100110); ‘cs1’: CS1 (001000); ‘cs2’: CS2 (010000); ‘cs3’: CS3 (011000); ‘cs4’: CS4 (100000); ‘cs5’: CS5 (101000); ‘cs6’: CS6 (110000); ‘cs7’: CS7 (111000); ‘ef’: EF (101110); ‘0’: 000000; ‘1’: 000001; ‘2’: 000010; ‘3’: 000011; ‘4’: 000100; ‘5’: 000101; ‘6’: 000110; ‘7’: 000111; ‘8’: 001000; ‘9’: 001001; ‘10’: 001010; ‘11’: 001011; ‘12’: 001100; ‘13’: 001101; ‘14’: 001110; ‘15’: 001111; ‘16’: 010000; ‘17’: 010001; ‘18’: 010010; ‘19’: 010011; ‘20’: 010100; ‘21’: 010101; ‘22’: 010110; ‘23’: 010111; ‘24’: 011000; ‘25’: 011001; ‘26’: 011010; ‘27’: 011011; ‘28’: 011100; ‘29’: 011101; ‘30’: 011110; ‘31’: 011111; ‘32’: 100000; ‘33’: 100001; ‘34’: 100010; ‘35’: 100011; ‘36’: 100100; ‘37’: 100101; ‘38’: 100110; ‘39’: 100111; ‘40’: 101000; ‘41’: 101001; ‘42’: 101010; ‘43’: 101011; ‘44’: 101100; ‘45’: 101101; ‘46’: 101110; ‘47’: 101111; ‘48’: 110000; ‘49’: 110001; ‘50’: 110010; ‘51’: 110011; ‘52’: 110100; ‘53’: 110101; ‘54’: 110110; ‘55’: 110111; ‘56’: 111000; ‘57’: 111001; ‘58’: 111010; ‘59’: 111011; ‘60’: 111100; ‘61’: 111101; ‘62’: 111110; ‘63’: 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

lsn-rule-list-list_default_rule-cfg_tcp-cfg

Specification	Value
Type	*object*

action-cfg

Description ‘action’: LSN Rule-List Action; ‘no-action’: Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets; 'template': Template;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

http-alg

Description HTTP-ALG Template (Template Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

lsn-rule-list-list_default_rule-cfg_udp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

lsn-rule-list-list_default_rule-cfg_icmp-others-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

lsn-rule-list-list_ip-list

Specification	Value
Type	*list*
Block object keys	

ipv4-addr

Description Configure a Specific Rule-Set (IP Network Address)

Type: string

Format: ipv4-cidr

rule-cfg

Type: List

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn-rule-list-list_ip-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

lsn-rule-list-list_ip-list_rule-cfg

Specification	Value
Type	*list*
Block object keys	

dscp-cfg

Description: dscp-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_ip-list_rule-cfg_dscp-cfg*

Type: Object

icmp-others-cfg

Description: icmp-others-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_ip-list_rule-cfg_icmp-others-cfg*

Type: Object

proto

Description 'tcp': TCP L4 Protocol; 'udp': UDP L4 Protocol; 'icmp': ICMP L4 Protocol; 'others': Other L4 Protocol; 'dscp': Match DSCP Value; 'default': Default Action;

Type: string

Supported Values: tcp, udp, icmp, others, dscp, default

tcp-cfg

Description: tcp-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_ip-list_rule-cfg_tcp-cfg*

Type: Object

udp-cfg

Description: udp-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_ip-list_rule-cfg_udp-cfg*

Type: Object

lsn-rule-list-list_ip-list_rule-cfg_dscp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action;

Type: string

Supported Values: action

action-type

Description 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-match

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); 'any': Match any dscp value; '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, any, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

lsn-rule-list-list_ip-list_rule-cfg_tcp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets; 'template': Template; 'idle-timeout': Configure idle timeout;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template, idle-timeout

domain

Description DNAT Using IP of a Domain (Domain Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: domain and ipv4-list are mutually exclusive

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6

(110000); ‘cs7’: CS7 (111000); ‘ef’: EF (101110); ‘0’: 000000; ‘1’: 000001; ‘2’: 000010; ‘3’: 000011; ‘4’: 000100; ‘5’: 000101; ‘6’: 000110; ‘7’: 000111; ‘8’: 001000; ‘9’: 001001; ‘10’: 001010; ‘11’: 001011; ‘12’: 001100; ‘13’: 001101; ‘14’: 001110; ‘15’: 001111; ‘16’: 010000; ‘17’: 010001; ‘18’: 010010; ‘19’: 010011; ‘20’: 010100; ‘21’: 010101; ‘22’: 010110; ‘23’: 010111; ‘24’: 011000; ‘25’: 011001; ‘26’: 011010; ‘27’: 011011; ‘28’: 011100; ‘29’: 011101; ‘30’: 011110; ‘31’: 011111; ‘32’: 100000; ‘33’: 100001; ‘34’: 100010; ‘35’: 100011; ‘36’: 100100; ‘37’: 100101; ‘38’: 100110; ‘39’: 100111; ‘40’: 101000; ‘41’: 101001; ‘42’: 101010; ‘43’: 101011; ‘44’: 101100; ‘45’: 101101; ‘46’: 101110; ‘47’: 101111; ‘48’: 110000; ‘49’: 110001; ‘50’: 110010; ‘51’: 110011; ‘52’: 110100; ‘53’: 110101; ‘54’: 110110; ‘55’: 110111; ‘56’: 111000; ‘57’: 111001; ‘58’: 111010; ‘59’: 111011; ‘60’: 111100; ‘61’: 111101; ‘62’: 111110; ‘63’: 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

fast

Description ‘fast’: Fast Aging;

Type: string

Supported Values: fast

Mutual Exclusion: fast and timeout-val are mutually exclusive

http-alg

Description HTTP-ALG Template (Template Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ipv4-list and domain are mutually exclusive

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

timeout-val

Description Timeout in seconds

Type: number

Range: 2-129600

Mutual Exclusion: timeout-val and fast are mutually exclusive

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

lsn-rule-list-list_ip-list_rule-cfg_udp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets; 'idle-timeout': Configure idle timeout;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, idle-timeout

domain

Description DNAT Using IP of a Domain (Domain Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: domain and ipv4-list are mutually exclusive

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55':

110111; ‘56’: 111000; ‘57’: 111001; ‘58’: 111010; ‘59’: 111011; ‘60’: 111100; ‘61’: 111101; ‘62’: 111110; ‘63’: 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

fast

Description ‘fast’: Fast Aging;

Type: string

Supported Values: fast

Mutual Exclusion: fast and timeout-val are mutually exclusive

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ipv4-list and domain are mutually exclusive

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

timeout-val

Description Timeout in seconds

Type: number

Range: 2-129600

Mutual Exclusion: timeout-val and fast are mutually exclusive

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

lsn-rule-list-list_ip-list_rule-cfg_icmp-others-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

domain

Description DNAT Using IP of a Domain (Domain Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: domain and ipv4-list are mutually exclusive

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ipv4-list and domain are mutually exclusive

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

lsn-rule-list-list_domain-list-name-list

Specification	Value
Type	*list*
Block object keys	

name-domain-list

Description Configure a Specific Rule-Set (Domain List Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-cfg

Type: List

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn-rule-list-list_domain-list-name-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

lsn-rule-list-list_domain-list-name-list_rule-cfg

Specification	Value
Type	*list*
Block object keys	

dscp-cfg

Description: dscp-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_domain-list-name-list_rule-cfg_dscp-cfg*

Type: Object

icmp-others-cfg

Description: icmp-others-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_domain-list-name-list_rule-cfg_icmp-others-cfg*

Type: Object

proto

Description 'tcp': TCP L4 Protocol; 'udp': UDP L4 Protocol; 'icmp': ICMP L4 Protocol; 'others': Other L4 Protocol; 'dscp': Match DSCP Value; 'default': Default Action;

Type: string

Supported Values: tcp, udp, icmp, others, dscp, default

tcp-cfg

Description: tcp-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_domain-list-name-list_rule-cfg_tcp-cfg*

Type: Object

udp-cfg

Description: udp-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_domain-list-name-list_rule-cfg_udp-cfg*

Type: Object

lsn-rule-list-list_domain-list-name-list_rule-cfg_dscp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action;

Type: string

Supported Values: action

action-type

Description 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-match

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); 'any': Match any dscp value; '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110;

'47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, any, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

lsn-rule-list-list_domain-list-name-list_rule-cfg_tcp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets; 'template': Template;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

http-alg

Description HTTP-ALG Template (Template Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

lsn-rule-list-list_domain-list-name-list_rule-cfg_udp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

lsn-rule-list-list_domain-list-name-list_rule-cfg_icmp-others-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

lsn-rule-list-list_domain-name-list

Specification	Value
Type	*list*
Block object keys	

name-domain

Description Configure a Specific Rule-Set (Domain Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-cfg

Type: List

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn-rule-list-list_domain-name-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

lsn-rule-list-list_domain-name-list_rule-cfg

Specification	Value
Type	*list*
Block object keys	

dscp-cfg

Description: dscp-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_domain-name-list_rule-cfg_dscp-cfg*

Type: Object

icmp-others-cfg

Description: icmp-others-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_domain-name-list_rule-cfg_icmp-others-cfg*

Type: Object

proto

Description 'tcp': TCP L4 Protocol; 'udp': UDP L4 Protocol; 'icmp': ICMP L4 Protocol; 'others': Other L4 Protocol; 'dscp': Match DSCP Value; 'default': Default Action;

Type: string

Supported Values: tcp, udp, icmp, others, dscp, default

tcp-cfg

Description: tcp-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_domain-name-list_rule-cfg_tcp-cfg*

Type: Object

udp-cfg

Description: udp-cfg is a **JSON Block**. Please see below for *lsn-rule-list-list_domain-name-list_rule-cfg_udp-cfg*

Type: Object

lsn-rule-list-list_domain-name-list_rule-cfg_dscp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action;

Type: string

Supported Values: action

action-type

Description 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-match

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); 'any': Match any dscp value; '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, any, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

lsn-rule-list-list_domain-name-list_rule-cfg_tcp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets; 'template': Template;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

http-alg

Description HTTP-ALG Template (Template Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

lsn-rule-list-list_domain-name-list_rule-cfg_udp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

lsn-rule-list-list_domain-name-list_rule-cfg_icmp-others-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

service-group-list

Specification	Value
Type	*list*
Block object keys	

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

member-list

Type: List

Reference Object: */axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}*

name

Description CGNV6 Service Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/cgnv6-serv-group-tmpl*

protocol

Description 'tcp': TCP LB service; 'udp': UDP LB service;

Type: string

Supported Values: tcp, udp

sampling-enable

Type: List

shared

Description Share with partition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

shared-group

Description Share with a partition group (Partition Group Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: shared-group and shared-partition are mutually exclusive

shared-partition

Description Share with a single partition (Partition Name)

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

Mutual Exclusion: shared-partition and shared-group are mutually exclusive

traffic-replication-mirror-ip-repl

Description Replaces IP with server-IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service-group-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'server_selection_fail_drop': Service selection fail drop; 'server_selection_fail_reset': Service selection fail reset; 'service_peak_conn': Service peak connection;

Type: string

Supported Values: all, server_selection_fail_drop, server_selection_fail_reset, service_peak_conn

service-group-list_member-list

Specification	Value
Type	*list*
Block object keys	

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 127 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/server*

port

Description Port number

Type: number

Range: 0-65534

Default: 65534

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service-group-list_member-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr_conn': Current connections; 'total_fwd_bytes': Total forward bytes; 'total_fwd_pkts': Total forward packets; 'total_rev_bytes': Total reverse bytes; 'total_rev_pkts': Total reverse packets; 'total_conn': Total connections; 'total_rev_pkts_inspected': Total reverse packets inspected; 'total_rev_pkts_inspected_status_code_2xx': Total reverse packets inspected status code 2xx; 'total_rev_pkts_inspected_status_code_non_5xx': Total reverse packets inspected status code non 5xx; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total requests success; 'peak_conn': Peak connections; 'response_time': Response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time; 'curr_ssl_conn': Current SSL connections; 'total_ssl_conn': Total SSL connections; 'curr_conn_overflow': Current connection counter overflow count; 'state_flaps': State flaps count;

Type: string

Supported Values: all, curr_conn, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_conn, total_rev_pkts_inspected, total_rev_pkts_inspected_status_code_2xx, total_rev_pkts_inspected_status_code_non_5xx, curr_req, total_req, total_req_succ, peak_conn, response_time, fastest_rsp_time, slowest_rsp_time, curr_ssl_conn, total_ssl_conn, curr_conn_overflow, state_flaps

http-alg

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

http-alg_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-processed': HTTP Request Processed; 'request-insert-msisdn-performed': HTTP MSISDN Insertion Performed; 'request-insert-client-ip-performed': HTTP Client IP Insertion Performed; 'request-insert-msisdn-unavailable': Inserted MSISDN is 0000 (MSISDN Unavailable); 'queued-session-too-many': Queued Session Exceed Drop; 'radius-query-succeed': MSISDN Query Succeed; 'radius-query-failed': MSISDN Query Failed; 'radius-requst-sent': Query Request Sent; 'radius-requst-dropped': Query Request Dropped; 'radius-response-received': Query Response Received; 'radius-response-dropped': Query Response Dropped; 'out-of-memory-dropped': Out-of-Memory Dropped; 'queue-len-exceed-dropped': Queue Length Exceed Dropped; 'out-of-order-dropped': Packet Out-of-Order Dropped; 'buff-resent': Packet Resent from Queue; 'buff-spilt-failed': Buff Split Failed; 'header-insertion-failed': Buff Insertion Failed; 'header-removal-failed': Buff Removal Failed; 'no-queue': No Queue;

Type: string

Supported Values: all, request-processed, request-insert-msisdn-performed, request-insert-client-ip-performed, request-insert-msisdn-unavailable, queued-session-too-many, radius-query-succeed, radius-query-failed, radius-requst-sent, radius-requst-dropped, radius-response-received, radius-response-dropped, out-of-memory-dropped, queue-len-exceed-dropped, out-of-order-dropped, buff-resent, buff-spilt-failed, header-insertion-failed, header-removal-failed, no-queue

ecmp

Specification	Value
Type	*object*

hashing-type

Description '4-tuple-hash': Hash on Src IP , Src Port, Dest IP and Dest Port;

Type: string

Supported Values: 4-tuple-hash

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn-radius-profile-list

Specification	Value
Type	*list*
Block object keys	

lid-profile-index

Description LSN RADIUS Profile Index

Type: number

Range: 1-16

radius

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn-radius-profile-list_radius

Specification	Value
Type	*list*
Block object keys	

attribute

Description 'custom1': Configure RADIUS Attribute Custom 1; 'custom2': Configure RADIUS Attribute Custom 2; 'custom3': Configure RADIUS Attribute Custom 3; 'custom4': Configure RADIUS Attribute Custom 4; 'custom5': Configure RADIUS Attribute Custom 5; 'custom6': Configure RADIUS Attribute Custom 6; 'imei': Configure RADIUS Attribute IMEI; 'imsi': Configure RADIUS Attribute IMSI; 'msisdn': Configure RADIUS Attribute MSISDN; 'default': Configure default;

Type: string

Supported Values: custom1, custom2, custom3, custom4, custom5, custom6, imei, imsi, msisdn, default

default-lsn-lid

Description LSN Limit ID (LID index)

Type: number

Range: 1-1023

exact-value

Description Value of the attribute

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

exact-value-lsn-lid

Description LSN Limit ID (LID index)

Type: number

Range: 1-1023

starts-with

Description Value of the attribute

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

starts-with-lsn-lid

Description LSN Limit ID (LID index)

Type: number

Range: 1-1023

server-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'enable': Enable this Real Server; 'disable': Disable this Real Server;

Type: string

Supported Values: enable, disable

Default: enable

fqdn-name

Description Server hostname

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

health-check

Description Health Check Monitor (Health monitor name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

host

Description IP Address

Type: string

Format: ipv4-address

name

Description Server Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

port-list

Type: List

Reference Object: */axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}*

resolve-as

Description 'resolve-to-ipv4': Use A Query only to resolve FQDN; 'resolve-to-ipv6': Use AAAA Query only to resolve FQDN; 'resolve-to-ipv4-and-ipv6': Use A as well as AAAA Query to resolve FQDN;

Type: string

Supported Values: resolve-to-ipv4, resolve-to-ipv6, resolve-to-ipv4-and-ipv6

Default: resolve-to-ipv4

sampling-enable

Type: List

server-ipv6-addr

Description IPV6 address

Type: string

Format: ipv6-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server-list_port-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

follow-port-protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check, health-check-follow-port, and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable health check

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-follow-port

Description Specify which port to follow for health status (Port Number)

Type: number

Range: 1-65534

Mutual Exclusion: health-check-follow-port and health-check are mutually exclusive

port-number

Description Port Number

Type: number

Range: 0-65534

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server-list_port-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr_conn': Current connections; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total request success; 'total_fwd_bytes': Forward bytes; 'total_fwd_pkts': Forward packets; 'total_rev_bytes': Reverse bytes; 'total_rev_pkts': Reverse packets; 'total_conn': Total connections; 'last_total_conn': Last total connections; 'peak_conn': Peak connections; 'es_resp_200': Response status 200; 'es_resp_300': Response status 300; 'es_resp_400': Response status 400; 'es_resp_500': Response status 500; 'es_resp_other': Response status other; 'es_req_count': Total proxy request; 'es_resp_count': Total proxy Response; 'es_resp_invalid_http': Total non-http response; 'total_rev_pkts_inspected': Total reverse packets inspected; 'total_rev_pkts_inspected_good_status_code': Total reverse packets with good status code inspected; 'response_time': Response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time;

Type: string

Supported Values: all, curr_conn, curr_req, total_req, total_req_succ, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_conn, last_total_conn, peak_conn, es_resp_200, es_resp_300, es_resp_400, es_resp_500, es_resp_other,

es_req_count, es_resp_count, es_resp_invalid_http, total_rev_pkts_inspected, total_rev_pkts_inspected_good_status_code, response_time, fastest_rsp_time, slowest_rsp_time

server-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr-conn': Current connections; 'total-conn': Total connections; 'fwd-pkt': Forward packets; 'rev-pkt': Reverse Packets; 'peak-conn': Peak connections;

Type: string

Supported Values: all, curr-conn, total-conn, fwd-pkt, rev-pkt, peak-conn

l4

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'no-fwd-route': No Forward Route for Session; 'no-rev-route': No Reverse Route for Session; 'out-of-session-memory': Out of Session Memory; 'tcp-rst-sent': TCP RST Sent; 'ipip-icmp-reply-sent': IPIP ICMP Echo Reply Sent; 'icmp-filtered-sent': ICMP Administratively Filtered Sent; 'icmp-host-unreachable-sent': ICMP Host Unreachable Sent; 'icmp-reply-no-session-drop': ICMP Reply No Session Drop; 'ipip-truncated': IPIP Truncated Packet; 'ip-src-invalid-unicast': IPv4 Source Not Valid Unicast; 'ip-dst-invalid-unicast': IPv4 Destination Not Valid Unicast; 'ipv6-src-invalid-unicast': IPv6 Source Not Valid Unicast; 'ipv6-dst-invalid-unicast': IPv6 Destination Not Valid Unicast; 'rate_drop_reset_unkn':

Rate Drop reset; 'bad-l3-protocol': Bad Layer 3 Protocol; 'special-ipv4-no-route': Stateless IPv4 No Forward Route; 'special-ipv6-no-route': Stateless IPv6 No Forward Route; 'icmp-reply-sent': ICMP Echo Reply Sent; 'icmpv6-reply-sent': ICMPv6 Echo Reply Sent; 'out-of-state-dropped': L4 Out of State packets; 'ttl-exceeded-sent': ICMP TTL Exceeded Sent; 'cross-cpu-alg-gre-no-match': ALG GRE Cross CPU No Matching Session; 'cross-cpu-alg-gre-preprocess-err': ALG GRE Cross CPU Preprocess Error; 'lsn-fast-setup': LSN Fast Setup Attempt; 'lsn-fast-setup-err': LSN Fast Setup Error; 'nat64-fast-setup': NAT64 Fast Setup Attempt; 'nat64-fast-setup-err': NAT64 Fast Setup Error; 'dslite-fast-setup': DS-Lite Fast Setup Attempt; 'dslite-fast-setup-err': DS-Lite Fast Setup Error; 'fast-setup-delayed-err': Fast Setup Delayed Error; 'fast-setup-mtu-too-small': Fast Setup MTU Too Small; 'fixed-nat44-fast-setup': Fixed NAT Fast Setup Attempt; 'fixed-nat44-fast-setup-err': Fixed NAT Fast Setup Error; 'fixed-nat64-fast-setup': Fixed NAT Fast Setup Attempt; 'fixed-nat64-fast-setup-err': Fixed NAT Fast Setup Error; 'fixed-nat-dslite-fast-setup': Fixed NAT Fast Setup Attempt; 'fixed-nat-dslite-fast-setup-err': Fixed NAT Fast Setup Error; 'fixed-nat-fast-setup-delayed-err': Fixed NAT Fast Setup Delayed Error; 'fixed-nat-fast-setup-mtu-too-small': Fixed NAT Fast Setup MTU Too Small; 'static-nat-fast-setup': Static NAT Fast Setup Attempt; 'static-nat-fast-setup-err': Static NAT Fast Setup Error; 'dst-nat-needed-drop': Destination NAT Needed Drop; 'invalid-nat64-translated-addr': Invalid NAT64 Translated IPv4 Address; 'tcp-rst-loop-drop': RST Loop Drop; 'static-nat-alloc': Static NAT Alloc; 'static-nat-free': Static NAT Free; 'process-l4': Process L4; 'preprocess-error': Preprocess Error; 'process-special': Process Special; 'process-continue': Process Continue; 'process-error': Process Error; 'fw-match-no-rule-drop': Firewall Matched No CGNv6 Rule Drop; 'ip-unknown-process': Process IP Unknown; 'src-nat-pool-not-found': Src NAT Pool Not Found; 'dst-nat-pool-not-found': Dst NAT Pool Not Found; 'l3-ip-src-invalid-unicast': IPv4 L3 Source Invalid Unicast; 'l3-ip-dst-invalid-unicast': IPv4 L3 Destination Invalid Unicast; 'l3-ipv6-src-invalid-unicast': IPv6 L3 Source Invalid Unicast; 'l3-ipv6-dst-invalid-unicast': IPv6 L3 Destination Invalid Unicast; 'fw-zone-mismatch-rerouting-drop': Rerouting Zone Mismatch Drop; 'nat-range-list-acl-deny': Nat range-list ACL deny; 'nat-range-list-acl-permit': Nat range-list ACL permit; 'fw-next-action-incorrect-drop': FW Next Action Incorrect Drop;

Type: string

Supported Values: all, no-fwd-route, no-rev-route, out-of-session-memory, tcp-rst-sent, ipip-icmp-reply-sent, icmp-filtered-sent, icmp-host-unreachable-sent, icmp-reply-no-session-drop, ipip-truncated, ip-src-invalid-unicast, ip-dst-invalid-unicast, ipv6-src-invalid-unicast, ipv6-dst-invalid-unicast, rate_drop_reset_unkn, bad-l3-protocol, special-ipv4-no-route, special-ipv6-no-route, icmp-reply-sent, icmpv6-reply-sent, out-of-state-dropped, ttl-exceeded-sent, cross-cpu-alg-gre-no-match, cross-cpu-alg-gre-preprocess-err, lsn-fast-setup, lsn-fast-setup-err, nat64-fast-setup, nat64-fast-setup-err, dslite-fast-setup, dslite-fast-setup-err, fast-setup-delayed-err, fast-setup-mtu-too-small, fixed-nat44-fast-setup, fixed-nat44-fast-setup-err, fixed-nat64-fast-setup, fixed-nat64-fast-setup-err, fixed-nat-dslite-fast-setup, fixed-nat-dslite-fast-setup-err, fixed-nat-fast-setup-delayed-err, fixed-nat-fast-setup-mtu-too-small, static-nat-fast-setup, static-nat-fast-setup-err, dst-nat-needed-drop, invalid-nat64-translated-addr, tcp-rst-loop-drop, static-nat-alloc, static-nat-free, process-l4, preprocess-error, process-special, process-continue, process-error, fw-match-no-rule-drop, ip-unknown-process, src-nat-pool-not-found, dst-nat-pool-not-found, l3-ip-src-invalid-unicast, l3-ip-dst-invalid-unicast, l3-ipv6-src-invalid-unicast, l3-ipv6-dst-invalid-unicast, fw-zone-mismatch-rerouting-drop, nat-range-list-acl-deny, nat-range-list-acl-permit, fw-next-action-incorrect-drop

lw-4o6

Specification	Value
Type	*object*

active-binding-table

Description: active-binding-table is a **JSON Block**. Please see below for *lw-4o6_active-binding-table*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/active-binding-table*

all-binding-tables

Description: all-binding-tables is a **JSON Block**. Please see below for *lw-4o6_all-binding-tables*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/all-binding-tables*

binding-table-files-status

Description: binding-table-files-status is a **JSON Block**. Please see below for *lw-4o6_binding-table-files-status*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/binding-table-files-status*

binding-table-list

Type: List

Reference Object: */axapi/v3/cgnv6/lw-4o6/binding-table/{name}*

binding-table-validate

Description: binding-table-validate is a **JSON Block**. Please see below for *lw-4o6_binding-table-validate*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/binding-table-validate*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *lw-4o6_fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/fragmentation*

global

Description: global is a **JSON Block**. Please see below for *lw-4o6_global*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/global*

health-check-gateway-list

Type: List

Reference Object: */axapi/v3/cgnv6/lw-4o6/health-check-gateway/{ipv4-addr}+{ipv6-addr}*

validation-log-files

Description: validation-log-files is a **JSON Block**. Please see below for *lw-4o6_validation-log-files*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/validation-log-files*

lw-4o6_fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *lw-4o6_fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *lw-4o6_fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/fragmentation/outbound*

lw-4o6_fragmentation_inbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv4, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lw-4o6_fragmentation_outbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set)(default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmp, send-icmpv6

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lw-4o6_health-check-gateway-list

Specification	Value
Type	*list*
Block object keys	

ipv4-addr

Description LW-4over6 IPv4 Gateway

Type: string

Format: ipv4-address

ipv6-addr

Description LW-4over6 IPv6 Gateway

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lw-4o6_active-binding-table

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lw-4o6_global

Specification	Value
Type	*object*

hairpinning

Description 'filter-all': Disable all Hairpinning; 'filter-none': Allow all Hairpinning (default); 'filter-self-ip': Block Hairpinning to same IP; 'filter-self-ip-port': Block hairpinning to same IP and Port combination;

Type: string

Supported Values: filter-all, filter-none, filter-self-ip, filter-self-ip-port

Default: filter-none

icmp-inbound

Description 'drop': Drop Inbound ICMP packets; 'handle': Handle Inbound ICMP packets(default);

Type: string

Supported Values: drop, handle

Default: handle

inside-src-access-list

Description Access List for inside IPv4 addresses (ACL ID)

Type: number

Range: 1-199

nat-prefix-list

Description Configure LW-4over6 NAT Prefix List (LW-4over6 NAT Prefix Class-list)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

no-forward-match

Description: no-forward-match is a **JSON Block**. Please see below for *lw-4o6_global_no-forward-match*

Type: Object

no-reverse-match

Description: no-reverse-match is a **JSON Block**. Please see below for *lw-4o6_global_no-reverse-match*

Type: Object

sampling-enable

Type: List

use-binding-table

Description Bind LW-4over6 binding table for use (LW-4over6 Binding Table Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lw-4o6_global_no-forward-match

Specification	Value
Type	*object*

send-icmpv6

Description Send ICMPv6 Type 1 Code 5

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

lw-4o6_global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'entry_count': Total Entries Configured; 'self_hairpinning_drop': Self-Hairpinning Drops; 'all_hairpinning_drop': All Hairpinning Drops; 'no_match_icmpv6_sent': No-Forward-Match ICMPv6 Sent; 'no_match_icmp_sent': No-Reverse-Match ICMP Sent; 'icmp_inbound_drop': Inbound ICMP Drops; 'fwd_lookup_failed': Forward Route Lookup Failed; 'rev_lookup_failed': Reverse Route Lookup Failed; 'interface_not_configured': LW-4over6 Interfaces not Configured Drops; 'no_binding_table_matches_fwd': No Forward Binding Table Entry Match Drops; 'no_binding_table_matches_rev': No Reverse Binding Table Entry Match Drops; 'session_count': LW-4over6 Session Count; 'system_address_drop': LW-4over6 System Address Drops;

Type: string

Supported Values: all, entry_count, self_hairpinning_drop, all_hairpinning_drop, no_match_icmpv6_sent, no_match_icmp_sent, icmp_inbound_drop, fwd_lookup_failed, rev_lookup_failed, interface_not_configured, no_binding_table_matches_fwd, no_binding_table_matches_rev, session_count, system_address_drop

lw-4o6_global_no-reverse-match

Specification	Value
Type	*object*

send-icmp

Description Send ICMP Type 3 Code 1

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

lw-4o6_binding-table-validate

Specification	Value
Type	*object*

binding-name

Description LW-4over6 Binding Table Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

lw-4o6_all-binding-tables

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lw-4o6_binding-table-files-status

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lw-4o6_validation-log-files

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lw-4o6_binding-table-list

Specification	Value
Type	*list*
Block object keys	

name

Description LW-4over6 Binding Table Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tunnel-address-list

Type: List

Reference Object: */axapi/v3/cgnv6/lw-4o6/binding-table/{name}/tunnel-address/{ipv6-tunnel-addr}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

lw-4o6_binding-table-list_tunnel-address-list

Specification	Value
Type	*list*
Block object keys	

ipv6-tunnel-addr

Description Tunnel IPv6 Endpoint Address

Type: string

Format: ipv6-address

nat-address-list

Type: List

Reference Object: */axapi/v3/cgnv6/lw-4o6/binding-table/{name}/tunnel-address/{ipv6-tunnel-addr}/nat-address/{ipv4-nat-addr}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

lw-4o6_binding-table-list_tunnel-address-list_nat-address-list

Specification	Value
Type	*list*
Block object keys	

ipv4-nat-addr

Description NAT IPv4 Address

Type: string

Format: ipv4-address

port-range-list

Type: List

Reference Object: */axapi/v3/cgnv6/lw-4o6/binding-table/{name}/tunnel-address/{ipv6-tunnel-addr}/nat-address/{ipv4-nat-addr}/port-range/{port-start}+{port-end}+{tunnel-endpoint-address}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

lw-4o6_binding-table-list_tunnel-address-list_nat-address-list_port-range-list

Specification	Value
Type	*list*
Block object keys	

port-end

Description Port Range End

Type: number

Range: 1-65535

port-start

Description Single Port or Port Range Start

Type: number

Range: 1-65535

tunnel-endpoint-address

Description Configure LW-4over6 IPIP Tunnel Endpoint Address (LW-4over6 Tunnel Endpoint Address)

Type: string

Format: ipv6-address

ddos-protection

Specification	Value
Type	*object*

disable-nat-ip-by-bgp

Description: disable-nat-ip-by-bgp is a **JSON Block**. Please see below for *ddos-protection_disable-nat-ip-by-bgp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp*

enable-action

Description 'local': Enable local logs only; 'remote': Enable logging to remote server & IP-FIX; 'both': Enable both local & remote logs;

Type: string

Supported Values: local, remote, both

Default: local

ip-entries

Description: ip-entries is a **JSON Block**. Please see below for *ddos-protection_ip-entries*

Type: Object

Reference Object: */axapi/v3/cgnv6/ddos-protection/ip-entries*

l4-entries

Description: l4-entries is a **JSON Block**. Please see below for *ddos-protection_l4-entries*

Type: Object

Reference Object: */axapi/v3/cgnv6/ddos-protection/l4-entries*

logging-action

Description 'enable': enable CGN DDoS protection logging; 'disable': Disable both local & remote CGN DDoS protection logging;

Type: string

Supported Values: enable, disable

Default: enable

max-hw-entries

Description Configure maximum HW entries

Type: number

Range: 0-262144

Default: 262144

packets-per-second

Description: packets-per-second is a **JSON Block**. Please see below for *ddos-protection_packets-per-second*

Type: Object

sampling-enable

Type: List

syn-cookie

Description: syn-cookie is a **JSON Block**. Please see below for *ddos-protection_syn-cookie*

Type: Object

toggle

Description 'enable': Enable CGNV6 NAT pool DDoS protection (default); 'disable': Disable CGNV6 NAT pool DDoS protection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone

Description Disable NAT IP based on DDoS zone name set in BGP

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ddos-protection_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'l3_entry_added': L3 Entry Added; 'l3_entry_deleted': L3 Entry Deleted; 'l3_entry_added_to_bgp': L3 Entry added to BGP; 'l3_entry_removed_from_bgp': Entry removed from BGP; 'l3_entry_added_to_hw': L3 Entry added to HW; 'l3_entry_removed_from_hw': L3 Entry removed from HW; 'l3_entry_too_many': L3 Too many entries; 'l3_entry_match_drop': L3 Entry match drop; 'l3_entry_match_drop_hw': L3 HW entry match drop; 'l3_entry_drop_max_hw_exceeded': L3 Entry Drop due to HW Limit Exceeded; 'l4_entry_added': L4 Entry added; 'l4_entry_deleted': L4 Entry deleted; 'l4_entry_added_to_hw': L4 Entry added to HW; 'l4_entry_removed_from_hw': L4 Entry removed from HW; 'l4_hw_out_of_entries': HW out of L4 entries; 'l4_entry_match_drop': L4 Entry match drop; 'l4_entry_match_drop_hw': L4 HW Entry match drop; 'l4_entry_drop_max_hw_exceeded': L4 Entry Drop due to HW Limit Exceeded; 'l4_entry_list_alloc': L4 Entry list alloc; 'l4_entry_list_free': L4 Entry list free; 'l4_entry_list_alloc_failure': L4 Entry list alloc failures; 'ip_node_alloc': Node alloc; 'ip_node_free': Node free; 'ip_node_alloc_failure': Node alloc failures; 'ip_port_block_alloc': Port block alloc; 'ip_port_block_free': Port block free; 'ip_port_block_alloc_failure': Port block alloc failure; 'ip_other_block_alloc': Other block alloc; 'ip_other_block_free': Other block free; 'ip_other_block_alloc_failure': Other block alloc failure; 'entry_added_shadow': Entry added shadow; 'entry_invalidated': Entry invalidated; 'l3_entry_add_to_bgp_failure': L3 Entry BGP add failures; 'l3_entry_remove_from_bgp_failure': L3 entry BGP remove failures; 'l3_entry_add_to_hw_failure': L3 entry HW add failure; 'syn_cookie_syn_ack_sent': SYN cookie SYN ACK sent; 'syn_cookie_verification_passed': SYN cookie verification passed; 'syn_cookie_verification_failed': SYN cookie verification failed; 'syn_cookie_conn_setup_failed': SYN cookie connection setup failed;

Type: string

Supported Values: all, l3_entry_added, l3_entry_deleted, l3_entry_added_to_bgp, l3_entry_removed_from_bgp, l3_entry_added_to_hw, l3_entry_removed_from_hw, l3_entry_too_many, l3_entry_match_drop, l3_entry_match_drop_hw,

l3_entry_drop_max_hw_exceeded, l4_entry_added, l4_entry_deleted, l4_entry_added_to_hw, l4_entry_removed_from_hw, l4_hw_out_of_entries, l4_entry_match_drop, l4_entry_match_drop_hw, l4_entry_drop_max_hw_exceeded, l4_entry_list_alloc, l4_entry_list_free, l4_entry_list_alloc_failure, ip_node_alloc, ip_node_free, ip_node_alloc_failure, ip_port_block_alloc, ip_port_block_free, ip_port_block_alloc_failure, ip_other_block_alloc, ip_other_block_free, ip_other_block_alloc_failure, entry_added_shadow, entry_invalidated, l3_entry_add_to_bgp_failure, l3_entry_remove_from_bgp_failure, l3_entry_add_to_hw_failure, syn_cookie_syn_ack_sent, syn_cookie_verification_passed, syn_cookie_verification_failed, syn_cookie_conn_setup_failed

ddos-protection_ip-entries

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ddos-protection_disable-nat-ip-by-bgp

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ddos-protection_l4-entries

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ddos-protection_packets-per-second

Specification	Value
Type	*object*

action

Description: action is a **JSON Block**. Please see below for *ddos-protection_packets-per-second_action*

Type: Object

include-existing-session

Description Count traffic associated with existing session into the packets-per-second (Default: Disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip

Description Configure packets-per-second threshold per IP(default 3000000)

Type: number

Range: 0-30000000

Default: 3000000

other

Description Configure packets-per-second threshold for other L4 protocols(default 10000)

Type: number

Range: 0-30000000

Default: 10000

other-action

Description: other-action is a **JSON Block**. Please see below for *ddos-protection_packets-per-second_other-action*

Type: Object

tcp

Description Configure packets-per-second threshold per TCP port (default: 3000)

Type: number

Range: 0-30000000

Default: 3000

tcp-action

Description: tcp-action is a **JSON Block**. Please see below for *ddos-protection_packets-per-second_tcp-action*

Type: Object

udp

Description Configure packets-per-second threshold per UDP port (default: 3000)

Type: number

Range: 0-30000000

Default: 3000

udp-action

Description: udp-action is a **JSON Block**. Please see below for *ddos-protection_packets-per-second_udp-action*

Type: Object

ddos-protection_packets-per-second_other-action

Specification	Value
Type	*object*

other-action-type

Description 'log': Log the event only; 'drop': Log, and drop all packets (default);

Type: string

Supported Values: log, drop

Default: drop

other-expiration

Description To specify time to revert the action after pps is decreased to below threshold (Expiration time, in seconds (default is 30 seconds))

Type: number

Range: 10-65535

Default: 30

ddos-protection_packets-per-second_udp-action

Specification	Value
Type	*object*

udp-action-type

Description 'log': Log the event only; 'drop': Log, and drop all packets (default);

Type: string

Supported Values: log, drop

Default: drop

udp-expiration

Description To specify time to revert the action after pps is decreased to below threshold (Expiration time, in seconds (default is 30 seconds))

Type: number

Range: 10-65535

Default: 30

ddos-protection_packets-per-second_tcp-action

Specification	Value
Type	*object*

tcp-action-type

Description 'log': Log the event only; 'drop': Log, and drop all packets (default);

Type: string

Supported Values: log, drop

Default: drop

tcp-expiration

Description To specify time to revert the action after pps is decreased to below threshold (Expiration time, in seconds (default is 30 seconds))

Type: number

Range: 10-65535

Default: 30

ddos-protection_packets-per-second_action

Specification	Value
Type	*object*

action-type

Description 'log': Log the event only; 'drop': Log, and drop all packets (default); 'redistribute-route': Log, Drop, and Notify upstream router to reroute the packets;

Type: string

Supported Values: log, drop, redistribute-route

Default: drop

expiration

Description To specify time to revert the action after pps is decreased to below threshold (Expiration time, in minutes (default is 3600 seconds))

Type: number

Range: 10-8640000

Default: 3600

expiration-route

Description To specify time to revert the action after pps is decreased to below threshold (Expiration time, in seconds (default is 3600 seconds))

Type: number

Range: 10-8640000

Default: 3600

forward

Description Continue forward traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

remove-wait-timer

Description Time after which IP will be removed from blackhole

Type: number

Range: 0-300

Default: 300

route-map

Description Route map name

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

timer-multiply-max

Description To specify max value of timer multiplier for attacks lasted long time (Max value of timer multiplier (default is 6))

Type: number

Range: 1-100

Default: 6

ddos-protection_syn-cookie

Specification	Value
Type	*object*

syn-cookie-enable

Description Enable CGNv6 Syn-Cookie Protection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-cookie-on-threshold

Description on-threshold for Syn-cookie (Decimal number)

Type: number

Range: 1-1000000

syn-cookie-on-timeout

Description on-timeout for Syn-cookie (Timeout in seconds, default is 120 seconds (2 minutes))

Type: number

Range: 1-300000

Default: 120

lsn-lid-list

Specification	Value
Type	*list*
Block object keys	

conn-rate-limit

Description: conn-rate-limit is a **JSON Block**. Please see below for *lsn-lid-list_conn-rate-limit*

Type: Object

ds-lite

Description: ds-lite is a **JSON Block**. Please see below for *lsn-lid-list_ds-lite*

Type: Object

extended-user-quota

Description: extended-user-quota is a **JSON Block**. Please see below for *lsn-lid-list_extended-user-quota*

Type: Object

lid-number

Description LSN Lid

Type: number

Range: 1-1023

lsn-rule-list

Description: lsn-rule-list is a **JSON Block**. Please see below for *lsn-lid-list_lsn-rule-list*

Type: Object

name

Description LSN Lid Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

override

Description 'none': Apply source NAT if configured (default); 'drop': Drop packets that match this LSN lid; 'pass-through': Layer-3 route packets that match this LSN lid and do not apply source NAT;

Type: string

Supported Values: none, drop, pass-through

Default: none

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-nat-pool

Description: source-nat-pool is a **JSON Block**. Please see below for *lsn-lid-list_source-nat-pool*

Type: Object

user-quota

Description: user-quota is a **JSON Block**. Please see below for *lsn-lid-list_user-quota*

Type: Object

user-quota-prefix-length

Description NAT64/DS-Lite user quota prefix length (Prefix Length (Default: Uses the global NAT64/DS-Lite configured value))

Type: number

Range: 1-128

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lsn-lid-list_extended-user-quota

Specification	Value
Type	*object*

tcp

Type: List

udp

Type: List

lsn-lid-list_extended-user-quota_udp

Specification	Value
Type	*list*
Block object keys	

udp-service-port

Description Port (Port Value)

Type: number

Range: 1-65535

udp-sessions

Description Number of Extended Quota sessions allowed for this service

Type: number

Range: 1-255

lsn-lid-list_extended-user-quota_tcp

Specification	Value
Type	*list*
Block object keys	

tcp-service-port

Description Port (Port Value)

Type: number

Range: 1-65535

tcp-sessions

Description Number of Extended Quota sessions allowed for this service

Type: number

Range: 1-255

lsn-lid-list_ds-lite

Specification	Value
Type	*object*

inside-src-permit-list

Description Class-List of IPv4 addresses permitted (Class-list to match for DS-Lite)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

lsn-lid-list_user-quota

Specification	Value
Type	*object*

icmp

Description User Quota for ICMP identifiers (NAT port quota per user (default: not configured))

Type: number

Range: 1-64000

quota-tcp

Description: quota-tcp is a **JSON Block**. Please see below for *lsn-lid-list_user-quota_quota-tcp*

Type: Object

quota-udp

Description: quota-udp is a **JSON Block**. Please see below for *lsn-lid-list_user-quota_quota-udp*

Type: Object

session

Description User Quota for number of data sessions

Type: number

Range: 1-2147483647

session-tcp

Description User Quota for number of TCP sessions

Type: number

Range: 1-2147483647

session-udp

Description User Quota for number of UDP sessions

Type: number

Range: 1-2147483647

lsn-lid-list_user-quota_quota-udp

Specification	Value
Type	*object*

udp-quota

Description NAT port quota per user (default: not configured)

Type: number

Range: 1-64000

udp-reserve

Description Number of ports to reserve per user (default: same as user-quota value) (Reserved quota per user (default: same as user-quota value))

Type: number

Range: 0-64000

lsn-lid-list_user-quota_quota-tcp

Specification	Value
Type	*object*

tcp-quota

Description NAT port quota per user (default: not configured)

Type: number

Range: 1-64000

tcp-reserve

Description Number of ports to reserve per user (default: same as user-quota value) (Reserved quota per user (default: same as user-quota value))

Type: number

Range: 0-64000

lsn-lid-list_source-nat-pool

Specification	Value
Type	*object*

pool-name

Description Source NAT Pool or Pool-Group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description Use a shared source NAT pool or pool-group

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

lsn-lid-list_conn-rate-limit

Specification	Value
Type	*object*

conn-rate-limit-val

Description Maximum connections per second (Default: No limit)

Type: number

Range: 1-65535

lsn-lid-list_lsn-rule-list

Specification	Value
Type	*object*

destination

Description Apply LSN Rule-List on Destination (LSN Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/lsn-rule-list*

sixrd

Specification	Value
Type	*object*

domain-list

Type: List

Reference Object: */axapi/v3/cgnv6/sixrd/domain/{name}*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *sixrd_fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/sixrd/fragmentation*

sixrd_domain-list

Specification	Value
Type	*list*
Block object keys	

br-ipv4-address

Description 6rd BR IPv4 address

Type: string

Format: ipv4-address

ce-ipv4-netmask

Description Mask length

Type: string

Format: ipv4-netmask-brief

ce-ipv4-network

Description Customer Edge IPv4 network

Type: string

Format: ipv4-address

ipv6-prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

mtu

Description Tunnel MTU

Type: number

Range: 1280-1480

name

Description 6rd Domain name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sixrd_domain-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'outbound-tcp-packets-received': Outbound TCP packets received; 'outbound-udp-packets-received': Outbound UDP packets received; 'outbound-icmp-packets-received': Outbound ICMP packets received; 'outbound-other-packets-received': Outbound other packets received; 'outbound-packets-drop': Outbound packets dropped; 'outbound-ipv6-dest-unreachable': Outbound IPv6 destination unreachable; 'outbound-fragment-ipv6': Outbound Fragmented IPv6; 'inbound-tcp-packets-received': Inbound TCP packets received; 'inbound-udp-packets-received': Inbound UDP packets received; 'inbound-icmp-packets-received': Inbound ICMP packets received; 'inbound-other-packets-received': Inbound other packets received; 'inbound-packets-drop': Inbound packets dropped; 'inbound-ipv4-dest-unreachable': Inbound IPv4 destination unreachable; 'inbound-fragment-ipv4': Inbound Fragmented IPv4; 'inbound-tunnel-fragment-ipv6': Inbound Fragmented IPv6 in tunnel; 'vport-matched': Traffic match SLB virtual port; 'unknown-delegated-prefix': Unknown 6rd delegated prefix; 'packet-too-big': Packet too big; 'not-local-ip': Not local IP; 'fragment-error': Fragment processing errors; 'other-error': Other errors;

Type: string

Supported Values: all, outbound-tcp-packets-received, outbound-udp-packets-received, outbound-icmp-packets-received, outbound-other-packets-received, outbound-packets-drop, outbound-ipv6-dest-unreachable, outbound-fragment-ipv6, inbound-tcp-packets-received, inbound-udp-packets-received, inbound-icmp-packets-received, inbound-other-packets-received, inbound-packets-drop, inbound-ipv4-dest-unreachable, inbound-fragment-ipv4, inbound-tunnel-fragment-ipv6, vport-matched, unknown-delegated-prefix, packet-too-big, not-local-ip, fragment-error, other-error

sixrd_fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *sixrd_fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/sixrd/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *sixrd_fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/sixrd/fragmentation/outbound*

sixrd_fragmentation_inbound

Specification	Value
Type	*object*

action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 Fragmentation for oversize packets; 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmpv6

Default: send-icmpv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sixrd_fragmentation_outbound

Specification	Value
Type	*object*

action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets (default); 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv6, send-icmp, send-icmpv6

Default: ipv6

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv6, send-icmp, send-icmpv6

Default: send-icmp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.2 cgnv6 ddos-protection

Configure CGNV6 DDoS Protection

ddos-protection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ddos-protection
Element URI	/axapi/v3/cgnv6/ddos-protection
Element Attributes	ddos-protection_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/ddos-protection/stats
Schema	`ddos-protection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ddos-protection

ddos-protection attributes

```
POST /axapi/v3/cgnv6/ddos-protection
Payload:
{
    "ddos-protection": {
        "toggle": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/ddos-protection

ddos-protection attributes

```
GET /axapi/v3/cgnv6/ddos-protection
Reponse:
{
    "ddos-protection": {
        "toggle": "enable",
        "logging-action": "enable",
        "enable-action": "local",
        "packets-per-second": {
            "ip": 3000000,
            "action": {
                "action-type": "drop",
                "expiration-route": 3600
            },
            "tcp": 3000,
            "tcp-action": {
                "tcp-action-type": "drop",
                "tcp-expiration": 30
            },
            "udp": 3000,
            "udp-action": {
                "udp-action-type": "drop",
                "udp-expiration": 30
            },
            "other": 10000,
            "other-action": {
                "other-action-type": "drop",
                "other-expiration": 30
            },
            "include-existing-session": 0
        },
        "syn-cookie": {
            "syn-cookie-enable": 0
        },
        "uuid": "c5ecfb26-0890-11f0-a250-a9cf5715f49c",
```

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```
        "l4-entries": {
            "uuid": "c5ecfbc6-0890-11f0-a250-a9cf5715f49c",
            "a10-url": "/axapi/v3/cgnv6/ddos-protection/l4-entries"
        },
        "ip-entries": {
            "uuid": "c5ecfc5c-0890-11f0-a250-a9cf5715f49c",
            "a10-url": "/axapi/v3/cgnv6/ddos-protection/ip-entries"
        },
        "disable-nat-ip-by-bgp": {
            "uuid": "c5ecfcf2-0890-11f0-a250-a9cf5715f49c",
            "a10-url": "/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp"
        },
        "a10-url": "/axapi/v3/cgnv6/ddos-protection"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/ddos-protection

ddos-protection attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ddos-protection

ddos-protection attributes

```
DELETE /axapi/v3/cgnv6/ddos-protection
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ddos-protection attributes

disable-nat-ip-by-bgp

Description: disable-nat-ip-by-bgp is a **JSON Block**. Please see below for *disable-nat-ip-by-bgp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp*

enable-action

Description 'local': Enable local logs only; 'remote': Enable logging to remote server & IP-FIX; 'both': Enable both local & remote logs;

Type: string

Supported Values: local, remote, both

Default: local

ip-entries

Description: ip-entries is a **JSON Block**. Please see below for *ip-entries*

Type: Object

Reference Object: */axapi/v3/cgnv6/ddos-protection/ip-entries*

l4-entries

Description: l4-entries is a **JSON Block**. Please see below for *l4-entries*

Type: Object

Reference Object: */axapi/v3/cgnv6/ddos-protection/l4-entries*

logging-action

Description 'enable': enable CGN DDoS protection logging; 'disable': Disable both local & remote CGN DDoS protection logging;

Type: string

Supported Values: enable, disable

Default: enable

max-hw-entries

Description Configure maximum HW entries

Type: number

Range: 0-262144

Default: 262144

packets-per-second

Description: packets-per-second is a **JSON Block**. Please see below for *packets-per-second*

Type: Object

sampling-enable

Type: List

syn-cookie

Description: syn-cookie is a **JSON Block**. Please see below for *syn-cookie*

Type: Object

toggle

Description 'enable': Enable CGNV6 NAT pool DDoS protection (default); 'disable': Disable CGNV6 NAT pool DDoS protection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone

Description Disable NAT IP based on DDoS zone name set in BGP

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'l3_entry_added': L3 Entry Added; 'l3_entry_deleted': L3 Entry Deleted; 'l3_entry_added_to_bgp': L3 Entry added to BGP; 'l3_entry_removed_from_bgp': Entry removed from BGP; 'l3_entry_added_to_hw': L3 Entry added to HW; 'l3_entry_removed_from_hw': L3 Entry removed from HW; 'l3_entry_too_many': L3 Too many entries; 'l3_entry_match_drop': L3 Entry match drop; 'l3_entry_match_drop_hw': L3 HW entry match drop; 'l3_entry_drop_max_hw_exceeded': L3 Entry Drop due to HW Limit Exceeded; 'l4_entry_added': L4 Entry added; 'l4_entry_deleted': L4 Entry deleted; 'l4_entry_added_to_hw': L4 Entry added to HW; 'l4_entry_removed_from_hw': L4 Entry removed from HW; 'l4_hw_out_of_entries': HW out of L4 entries; 'l4_entry_match_drop': L4 Entry match drop; 'l4_entry_match_drop_hw': L4 HW Entry match drop; 'l4_entry_drop_max_hw_exceeded': L4 Entry Drop due to HW Limit Exceeded; 'l4_entry_list_alloc': L4 Entry list alloc; 'l4_entry_list_free': L4 Entry list free; 'l4_entry_list_alloc_failure': L4 Entry list alloc failures; 'ip_node_alloc': Node alloc; 'ip_node_free': Node free; 'ip_node_alloc_failure': Node alloc failures; 'ip_port_block_alloc': Port block alloc; 'ip_port_block_free': Port block free; 'ip_port_block_alloc_failure': Port block alloc failure; 'ip_other_block_alloc': Other block alloc; 'ip_other_block_free': Other block free; 'ip_other_block_alloc_failure': Other block alloc failure; 'entry_added_shadow': Entry added shadow; 'entry_invalidated': Entry invalidated; 'l3_entry_add_to_bgp_failure': L3 Entry BGP add failures; 'l3_entry_remove_from_bgp_failure': L3 entry BGP remove failures; 'l3_entry_add_to_hw_failure': L3 entry HW add failure; 'syn_cookie_syn_ack_sent': SYN cookie SYN ACK sent; 'syn_cookie_verification_passed': SYN cookie verification passed; 'syn_cookie_verification_failed': SYN cookie verification failed; 'syn_cookie_conn_setup_failed': SYN cookie connection setup failed;

Type: string

Supported Values: all, l3_entry_added, l3_entry_deleted, l3_entry_added_to_bgp, l3_entry_removed_from_bgp, l3_entry_added_to_hw, l3_entry_removed_from_hw, l3_entry_too_many, l3_entry_match_drop, l3_entry_match_drop_hw,

l3_entry_drop_max_hw_exceeded, l4_entry_added, l4_entry_deleted, l4_entry_added_to_hw, l4_entry_removed_from_hw, l4_hw_out_of_entries, l4_entry_match_drop, l4_entry_match_drop_hw, l4_entry_drop_max_hw_exceeded, l4_entry_list_alloc, l4_entry_list_free, l4_entry_list_alloc_failure, ip_node_alloc, ip_node_free, ip_node_alloc_failure, ip_port_block_alloc, ip_port_block_free, ip_port_block_alloc_failure, ip_other_block_alloc, ip_other_block_free, ip_other_block_alloc_failure, entry_added_shadow, entry_invalidated, l3_entry_add_to_bgp_failure, l3_entry_remove_from_bgp_failure, l3_entry_add_to_hw_failure, syn_cookie_syn_ack_sent, syn_cookie_verification_passed, syn_cookie_verification_failed, syn_cookie_conn_setup_failed

ip-entries

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

disable-nat-ip-by-bgp

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-entries

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packets-per-second

Specification	Value
Type	*object*

action

Description: action is a **JSON Block**. Please see below for *packets-per-second_action*

Type: Object

include-existing-session

Description Count traffic associated with existing session into the packets-per-second (Default: Disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip

Description Configure packets-per-second threshold per IP(default 3000000)

Type: number

Range: 0-30000000

Default: 3000000

other

Description Configure packets-per-second threshold for other L4 protocols(default 10000)

Type: number

Range: 0-30000000

Default: 10000

other-action

Description: other-action is a **JSON Block**. Please see below for *packets-per-second_other-action*

Type: Object

tcp

Description Configure packets-per-second threshold per TCP port (default: 3000)

Type: number

Range: 0-30000000

Default: 3000

tcp-action

Description: tcp-action is a **JSON Block**. Please see below for *packets-per-second_tcp-action*

Type: Object

udp

Description Configure packets-per-second threshold per UDP port (default: 3000)

Type: number

Range: 0-30000000

Default: 3000

udp-action

Description: udp-action is a **JSON Block**. Please see below for *packets-per-second_udp-action*

Type: Object

packets-per-second_other-action

Specification	Value
Type	*object*

other-action-type

Description 'log': Log the event only; 'drop': Log, and drop all packets (default);

Type: string

Supported Values: log, drop

Default: drop

other-expiration

Description To specify time to revert the action after pps is decreased to below threshold (Expiration time, in seconds (default is 30 seconds))

Type: number

Range: 10-65535

Default: 30

packets-per-second_udp-action

Specification	Value
Type	*object*

udp-action-type

Description 'log': Log the event only; 'drop': Log, and drop all packets (default);

Type: string

Supported Values: log, drop

Default: drop

udp-expiration

Description To specify time to revert the action after pps is decreased to below threshold (Expiration time, in seconds (default is 30 seconds))

Type: number

Range: 10-65535

Default: 30

packets-per-second_tcp-action

Specification	Value
Type	*object*

tcp-action-type

Description 'log': Log the event only; 'drop': Log, and drop all packets (default);

Type: string

Supported Values: log, drop

Default: drop

tcp-expiration

Description To specify time to revert the action after pps is decreased to below threshold (Expiration time, in seconds (default is 30 seconds))

Type: number

Range: 10-65535

Default: 30

packets-per-second_action

Specification	Value
Type	*object*

action-type

Description 'log': Log the event only; 'drop': Log, and drop all packets (default); 'redistribute-route': Log, Drop, and Notify upstream router to reroute the packets;

Type: string

Supported Values: log, drop, redistribute-route

Default: drop

expiration

Description To specify time to revert the action after pps is decreased to below threshold (Expiration time, in minutes (default is 3600 seconds))

Type: number

Range: 10-8640000

Default: 3600

expiration-route

Description To specify time to revert the action after pps is decreased to below threshold (Expiration time, in seconds (default is 3600 seconds))

Type: number

Range: 10-8640000

Default: 3600

forward

Description Continue forward traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

remove-wait-timer

Description Time after which IP will be removed from blackhole

Type: number

Range: 0-300

Default: 300

route-map

Description Route map name

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

timer-multiply-max

Description To specify max value of timer multiplier for attacks lasted long time (Max value of timer multiplier (default is 6))

Type: number

Range: 1-100

Default: 6

syn-cookie

Specification	Value
Type	*object*

syn-cookie-enable

Description Enable CGNv6 Syn-Cookie Protection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-cookie-on-threshold

Description on-threshold for Syn-cookie (Decimal number)

Type: number

Range: 1-1000000

syn-cookie-on-timeout

Description on-timeout for Syn-cookie (Timeout in seconds, default is 120 seconds (2 minutes))

Type: number

Range: 1-300000

Default: 120

2.26.3 cgnv6 ddos-protection disable-nat-ip-by-bgp

disable-nat-ip-by-bgp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	disable-nat-ip-by-bgp
Element URI	/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp
Element Attributes	disable-nat-ip-by-bgp_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp/oper
Schema	`disable-nat-ip-by-bgp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp

disable-nat-ip-by-bgp attributes

Get Object

GET

/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp

disable-nat-ip-by-bgp attributes

Modify Object

POST

/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp

disable-nat-ip-by-bgp attributes

Replace Object

PUT

/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp

disable-nat-ip-by-bgp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp

disable-nat-ip-by-bgp attributes

disable-nat-ip-by-bgp attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.4 cgnv6 ddos-protection disable-nat-ip-by-bgp oper

Operational Status for the object disable-nat-ip-by-bgp

disable-nat-ip-by-bgp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	disable-nat-ip-by-bgp
Element URI	/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp/oper
Element Attributes	disable-nat-ip-by-bgp_attributes
Partition Visibility	None
Schema	`disable-nat-ip-by-bgp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp/oper

disable-nat-ip-by-bgp attributes

Get Object

GET

/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp/oper

disable-nat-ip-by-bgp attributes

Modify Object

POST

/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp/oper

disable-nat-ip-by-bgp attributes

Replace Object

PUT

/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp/oper

disable-nat-ip-by-bgp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ddos-protection/disable-nat-ip-by-bgp/oper

disable-nat-ip-by-bgp attributes

disable-nat-ip-by-bgp attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos-disabled-by-bgp-entries-list

Type: List

total-entries

Description

Type: number

v4-address

Description

Type: string

Format: ipv4-address

oper_ddos-disabled-by-bgp-entries-list

Specification	Value
Type	*list*
Block object keys	

nat-pool-name

Description

Type: string

v4-address

Description

Type: string

Format: ipv4-address

2.26.5 cgnv6 ddos-protection ip-entries

ip-entries Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-entries
Element URI	/axapi/v3/cgnv6/ddos-protection/ip-entries
Element Attributes	ip-entries_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/ddos-protection/ip-entries/oper
Schema	`ip-entries schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ddos-protection/ip-entries

ip-entries attributes

Get Object

GET

/axapi/v3/cgnv6/ddos-protection/ip-entries

ip-entries attributes

Modify Object

POST

/axapi/v3/cgnv6/ddos-protection/ip-entries

ip-entries attributes

Replace Object

PUT

/axapi/v3/cgnv6/ddos-protection/ip-entries

ip-entries attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ddos-protection/ip-entries

ip-entries attributes

ip-entries attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.6 cgnv6 ddos-protection ip-entries oper

Operational Status for the object ip-entries

ip-entries Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-entries
Element URI	/axapi/v3/cgnv6/ddos-protection/ip-entries/oper
Element Attributes	ip-entries_attributes
Partition Visibility	None
Schema	`ip-entries schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ddos-protection/ip-entries/oper

ip-entries attributes

Get Object

GET

/axapi/v3/cgnv6/ddos-protection/ip-entries/oper

ip-entries attributes

Modify Object

POST

/axapi/v3/cgnv6/ddos-protection/ip-entries/oper

ip-entries attributes

Replace Object

PUT

/axapi/v3/cgnv6/ddos-protection/ip-entries/oper

ip-entries attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ddos-protection/ip-entries/oper

ip-entries attributes

ip-entries attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos-ip-entries-list

Type: List

nat-pool

Description

Type: string

total-entries

Description

Type: number

v4-netmask

Description

Type: string

Format: ipv4-netmask-brief

oper_ddos-ip-entries-list

Specification	Value
Type	*list*
Block object keys	

expiration

Description

Type: number

hardware-index

Description

Type: number

hints

Description

Type: string

hw-l3-drop-pps

Description

Type: number

hw-l4-drop-pps

Description

Type: number

in-blacklist

Description

Type: number

in-hardware

Description

Type: number

l4-entries-count

Description

Type: number

sw-l3-drop-pps

Description

Type: number

sw-l4-drop-pps

Description

Type: number

sw-receive-pps

Description

Type: number

total-pps

Description

Type: number

v4-address

Description

Type: string

Format: ipv4-address

2.26.7 cgnv6 ddos-protection l4-entries

l4-entries Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-entries
Element URI	/axapi/v3/cgnv6/ddos-protection/l4-entries
Element Attributes	l4-entries_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/ddos-protection/l4-entries/oper
Schema	`l4-entries schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ddos-protection/l4-entries

l4-entries attributes

Get Object

GET

/axapi/v3/cgnv6/ddos-protection/l4-entries

l4-entries attributes

Modify Object

POST

/axapi/v3/cgnv6/ddos-protection/l4-entries

l4-entries attributes

Replace Object

PUT

/axapi/v3/cgnv6/ddos-protection/l4-entries

l4-entries attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ddos-protection/l4-entries

l4-entries attributes

l4-entries attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.8 cgnv6 ddos-protection l4-entries oper

Operational Status for the object l4-entries

l4-entries Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-entries
Element URI	/axapi/v3/cgnv6/ddos-protection/l4-entries/oper
Element Attributes	l4-entries_attributes
Partition Visibility	None
Schema	`l4-entries schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ddos-protection/l4-entries/oper

l4-entries attributes

Get Object

GET

/axapi/v3/cgnv6/ddos-protection/l4-entries/oper

l4-entries attributes

Modify Object

POST

/axapi/v3/cgnv6/ddos-protection/l4-entries/oper

l4-entries attributes

Replace Object

PUT

/axapi/v3/cgnv6/ddos-protection/l4-entries/oper

l4-entries attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ddos-protection/l4-entries/oper

l4-entries attributes

l4-entries attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos-l4-entries-list

Type: List

nat-pool

Description

Type: string

not-in-hardware

Description

Type: boolean

Supported Values: true, false, 1, 0

total-entries

Description

Type: number

v4-netmask

Description

Type: string

Format: ipv4-netmask-brief

oper_ddos-l4-entries-list

Specification	Value
Type	*list*
Block object keys	

expiration

Description

Type: number

hardware-index

Description

Type: number

in-hardware

Description

Type: number

is-deleted

Description

Type: number

l4-protocol

Description

Type: string

port

Description

Type: number

pps

Description

Type: number

v4-address

Description

Type: string

Format: ipv4-address

2.26.9 cgnv6 ddos-protection stats

Statistics for the object ddos-protection

ddos-protection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ddos-protection
Element URI	/axapi/v3/cgnv6/ddos-protection/stats
Element Attributes	ddos-protection_attributes
Partition Visibility	None
Schema	`ddos-protection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ddos-protection/stats

ddos-protection attributes

Get Object

GET

/axapi/v3/cgnv6/ddos-protection/stats

ddos-protection attributes

Modify Object

POST

/axapi/v3/cgnv6/ddos-protection/stats

ddos-protection attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ddos-protection/stats

ddos-protection attributes

ddos-protection attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

entry_added_shadow

Description Entry added shadow

Type: number

Format: counter

entry_invalidated

Description Entry invalidated

Type: number

Format: counter

ip_node_alloc

Description Node alloc

Type: number

Format: counter

ip_node_alloc_failure

Description Node alloc failures

Type: number

Format: counter

ip_node_free

Description Node free

Type: number

Format: counter

ip_other_block_alloc

Description Other block alloc

Type: number

Format: counter

ip_other_block_alloc_failure

Description Other block alloc failure

Type: number

Format: counter

ip_other_block_free

Description Other block free

Type: number

Format: counter

ip_port_block_alloc

Description Port block alloc

Type: number

Format: counter

ip_port_block_alloc_failure

Description Port block alloc failure

Type: number

Format: counter

ip_port_block_free

Description Port block free

Type: number

Format: counter

l3_entry_add_to_bgp_failure

Description L3 Entry BGP add failures

Type: number

Format: counter

l3_entry_add_to_hw_failure

Description L3 entry HW add failure

Type: number

Format: counter

l3_entry_added

Description L3 Entry Added

Type: number

Format: counter

l3_entry_added_to_bgp

Description L3 Entry added to BGP

Type: number

Format: counter

l3_entry_added_to_hw

Description L3 Entry added to HW

Type: number

Format: counter

l3_entry_deleted

Description L3 Entry Deleted

Type: number

Format: counter

l3_entry_drop_max_hw_exceeded

Description L3 Entry Drop due to HW Limit Exceeded

Type: number

Format: counter

l3_entry_match_drop

Description L3 Entry match drop

Type: number

Format: counter

l3_entry_match_drop_hw

Description L3 HW entry match drop

Type: number

Format: counter

l3_entry_remove_from_bgp_failure

Description L3 entry BGP remove failures

Type: number

Format: counter

l3_entry_removed_from_bgp

Description Entry removed from BGP

Type: number

Format: counter

l3_entry_removed_from_hw

Description L3 Entry removed from HW

Type: number

Format: counter

l3_entry_too_many

Description L3 Too many entries

Type: number

Format: counter

l4_entry_added

Description L4 Entry added

Type: number

Format: counter

l4_entry_added_to_hw

Description L4 Entry added to HW

Type: number

Format: counter

l4_entry_deleted

Description L4 Entry deleted

Type: number

Format: counter

l4_entry_drop_max_hw_exceeded

Description L4 Entry Drop due to HW Limit Exceeded

Type: number

Format: counter

l4_entry_list_alloc

Description L4 Entry list alloc

Type: number

Format: counter

l4_entry_list_alloc_failure

Description L4 Entry list alloc failures

Type: number

Format: counter

l4_entry_list_free

Description L4 Entry list free

Type: number

Format: counter

l4_entry_match_drop

Description L4 Entry match drop

Type: number

Format: counter

l4_entry_match_drop_hw

Description L4 HW Entry match drop

Type: number

Format: counter

l4_entry_removed_from_hw

Description L4 Entry removed from HW

Type: number

Format: counter

l4_hw_out_of_entries

Description HW out of L4 entries

Type: number

Format: counter

syn_cookie_syn_ack_sent

Description SYN cookie SYN ACK sent

Type: number

Format: counter

syn_cookie_verification_failed

Description SYN cookie verification failed

Type: number

Format: counter

syn_cookie_verification_passed

Description SYN cookie verification passed

Type: number

Format: counter

2.26.10 cgnv6 dns64

DNS64 Statistics

dns64 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dns64
Element URI	/axapi/v3/cgnv6/dns64
Element Attributes	dns64_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/dns64/stats
Schema	`dns64 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/dns64

dns64 attributes

```
POST /axapi/v3/cgnv6/dns64
Payload:
{
    "dns64": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/dns64

dns64 attributes

```
GET /axapi/v3/cgnv6/dns64
Reponse:
{
    "dns64": {
        "uuid": "c5edad00-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/dns64"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/dns64

dns64 attributes

Replace Object

PUT

/axapi/v3/cgnv6/dns64

dns64 attributes

```
PUT /axapi/v3/cgnv6/dns64
Payload:
{
    "dns64": {
        "sampling-enable": [
```

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```
            {
                "counters1": "query"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/dns64

dns64 attributes

```
DELETE /axapi/v3/cgnv6/dns64
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

dns64 attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'query': Query; 'query-bad-pkt': Query Bad Packet; 'query-chg': Query Changed; 'query-parallel': Query Parallel; 'query-passive': Query Passive; 'resp': Response; 'resp-bad-pkt': Response Bad Packet; 'resp-bad-qr': Response Bad Query; 'resp-chg': Response Changed; 'resp-err': Response Error; 'resp-empty': Response Empty; 'resp-local': Response Local; 'adjust': Translated; 'cache': Cache; 'drop': Dropped;

Type: string

Supported Values: all, query, query-bad-pkt, query-chg, query-parallel, query-passive, resp, resp-bad-pkt, resp-bad-qr, resp-chg, resp-err, resp-empty, resp-local, adjust, cache, drop

2.26.11 cgnv6 dns64 stats

Statistics for the object dns64

dns64 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dns64
Element URI	/axapi/v3/cgnv6/dns64/stats
Element Attributes	dns64_attributes
Partition Visibility	None
Schema	`dns64 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/dns64/stats

dns64 attributes

Get Object

GET

/axapi/v3/cgnv6/dns64/stats

dns64 attributes

Modify Object

POST

/axapi/v3/cgnv6/dns64/stats

dns64 attributes

Replace Object

PUT

/axapi/v3/cgnv6/dns64/stats

dns64 attributes

Delete Object

DELETE

/axapi/v3/cgnv6/dns64/stats

dns64 attributes

dns64 attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

adjust

Description Translated

Type: number

Format: counter

cache

Description Cache

Type: number

Format: counter

drop

Description Dropped

Type: number

Format: counter

query

Description Query

Type: number

Format: counter

query-bad-pkt

Description Query Bad Packet

Type: number

Format: counter

query-chg

Description Query Changed

Type: number

Format: counter

query-parallel

Description Query Parallel

Type: number

Format: counter

query-passive

Description Query Passive

Type: number

Format: counter

resp

Description Response

Type: number

Format: counter

resp-bad-pkt

Description Response Bad Packet

Type: number

Format: counter

resp-bad-qr

Description Response Bad Query

Type: number

Format: counter

resp-chg

Description Response Changed

Type: number

Format: counter

resp-empty

Description Response Empty

Type: number

Format: counter

resp-err

Description Response Error

Type: number

Format: counter

resp-local

Description Response Local

Type: number

Format: counter

2.26.12 cgnv6 dns64-virtualserver

Create a DNS64 Virtual Server

dns64-virtualserver Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*dns64-virtualserver-list*
Collection URI	/axapi/v3/cgnv6/dns64-virtualserver
Element Name	dns64-virtualserver
Element URI	/axapi/v3/cgnv6/dns64-virtualserver/{name}
Element Attributes	dns64-virtualserver_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/dns64-virtualserver/{name}/oper
Schema	`dns64-virtualserver schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/dns64-virtualserver

dns64-virtualserver attributes

```
POST /axapi/v3/cgnv6/dns64-virtualserver/
Payload:
{
    "dns64-virtualserver": {
        "name": "a",
        "ipv6-address": "2003::1"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/dns64-virtualserver

dns64-virtualserver attributes

Get Object

GET

/axapi/v3/cgnv6/dns64-virtualserver/{name}

dns64-virtualserver attributes

```
GET /axapi/v3/cgnv6/dns64-virtualserver/a
Reponse:
```

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```
{
    "dns64-virtualserver": {
        "name": "a",
        "ipv6-address": "2003::1",
        "enable-disable-action": "enable",
        "policy": 0,
        "uuid": "ba483fdc-0896-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/dns64-virtualserver/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/dns64-virtualserver

dns64-virtualserver-list

Modify Object

POST

/axapi/v3/cgnv6/dns64-virtualserver/{name}

dns64-virtualserver attributes

Replace Object

PUT

/axapi/v3/cgnv6/dns64-virtualserver/{name}

dns64-virtualserver attributes

```
PUT /axapi/v3/cgnv6/dns64-virtualserver/a
Payload:
{
    "dns64-virtualserver": {
        "name": "a",
        "ipv6-address": "2003::1"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/dns64-virtualserver

dns64-virtualserver-list

Delete Object

DELETE

/axapi/v3/cgnv6/dns64-virtualserver/{name}

dns64-virtualserver attributes

```
DELETE /axapi/v3/cgnv6/dns64-virtualserver/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

dns64-virtualserver-list

dns64-virtualserver-list is **JSON List** of *dns64-virtualserver attributes*

dns64-virtualserver-list : [

{ *dns64-virtualserver attributes* },

{ *dns64-virtualserver attributes* },

...

]

dns64-virtualserver attributes

enable-disable-action

Description 'enable': Enable Virtual Server (default); 'disable': Disable Virtual Server;

Type: string

Supported Values: enable, disable

Default: enable

ethernet

Description Ethernet interface

Type: number

Format: interface

ip-address

Description IP Address

Type: string

Format: ipv4-address

Mutual Exclusion: ip-address, ipv6-address, and use-if-ip are mutually exclusive

ipv6-address

Description IPV6 address

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-address, ip-address, and use-if-ip are mutually exclusive

name

Description CGNV6 Virtual Server Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

netmask

Description IP subnet mask

Type: string

Format: ipv4-netmask-brief

policy

Description Policy template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-list

Type: List

Reference Object: */axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}*

template-policy

Description Policy template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/policy*

use-if-ip

Description Use Interface IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: use-if-ip, ipv6-address, and ip-address are mutually exclusive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Join a vrrp group (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

port-list

Specification	Value
Type	*list*
Block object keys	

acl-id-list

Type: List

acl-name-list

Type: List

action

Description 'enable': Enable; 'disable': Disable;

Type: string

Supported Values: enable, disable

Default: enable

auto

Description Configure auto NAT for the vport

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/cgnv6-dns64-vs-port-tmpl*

pool

Description Specify NAT pool or pool group

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ip/nat/pool*

port-number

Description Port

Type: number

Range: 0-65534

precedence

Description Set auto NAT pool as higher precedence for source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

protocol

Description 'dns-udp': DNS service over UDP;

Type: string

Supported Values: dns-udp

sampling-enable

Type: List

service-group

Description Bind a Service Group to this Virtual Server (Service Group Name)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/service-group*

template-dns

Description DNS template (DNS template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/dns*

template-policy

Description Policy Template (Policy template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/policy*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr_conn': Current connection; 'total_l4_conn': Total L4 connections; 'total_l7_conn': Total L7 connections; 'toatal_tcp_conn': Total TCP connections; 'total_conn': Total connections; 'total_fwd_bytes': Total forward bytes; 'total_fwd_pkts': Total forward packets; 'total_rev_bytes': Total reverse bytes; 'total_rev_pkts': Total reverse packets; 'total_dns_pkts': Total DNS packets; 'total_mf_dns_pkts': Total MF DNS packets; 'es_total_failure_actions': Total failure actions; 'compression_bytes_before': Data into compression engine; 'compression_bytes_after': Data out of compression engine; 'compression_hit': Number of requests compressed; 'compression_miss': Number of requests NOT compressed; 'compression_miss_no_client': Compression miss no client; 'compression_miss_template_exclusion': Compression miss template exclusion; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total successful requests; 'peak_conn':

Peak connections; 'curr_conn_rate': Current connection rate; 'last_rsp_time': Last response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time;

Type: string

Supported Values: all, curr_conn, total_l4_conn, total_l7_conn, toatal_tcp_conn, total_conn, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_dns_pkts, total_mf_dns_pkts, es_total_failure_actions, compression_bytes_before, compression_bytes_after, compression_hit, compression_miss, compression_miss_no_client, compression_miss_template_exclusion, curr_req, total_req, total_req_succ, peak_conn, curr_conn_rate, last_rsp_time, fastest_rsp_time, slowest_rsp_time

port-list_acl-name-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description Apply an access list name (Named Access List)

Type: string

Format: string-rlx

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ip/access-list*

acl-name-seq-num

Description Specify ACL precedence (sequence-number)

Type: number

Range: 1-32

acl-name-src-nat-pool

Description Policy based Source NAT (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ip/nat/pool*

port-list_acl-id-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id VPORT

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

acl-id-seq-num

Description Specify ACL precedence (sequence-number)

Type: number

Range: 1-32

acl-id-src-nat-pool

Description Policy based Source NAT (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ip/nat/pool*

2.26.13 cgnv6 dns64-virtualserver oper

Operational Status for the object dns64-virtualserver

dns64-virtualserver Specification

Parameter	Value
Type	*Collection*
Collection Name	*dns64-virtualserver-list*
Collection URI	/axapi/v3/cgnv6/dns64-virtualserver/{name}
Element Name	dns64-virtualserver
Element URI	/axapi/v3/cgnv6/dns64-virtualserver/{name}/oper
Element Attributes	dns64-virtualserver_attributes
Partition Visibility	None
Schema	`dns64-virtualserver schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/dns64-virtualserver/{name}

dns64-virtualserver attributes

Create List

POST

/axapi/v3/cgnv6/dns64-virtualserver/{name}

dns64-virtualserver attributes

Get Object

GET

/axapi/v3/cgnv6/dns64-virtualserver/{name}/oper

dns64-virtualserver attributes

Get List

GET

/axapi/v3/cgnv6/dns64-virtualserver/{name}

dns64-virtualserver-list

Modify Object

POST

/axapi/v3/cgnv6/dns64-virtualserver/{name}/oper

dns64-virtualserver attributes

Replace Object

PUT

/axapi/v3/cgnv6/dns64-virtualserver/{name}/oper

dns64-virtualserver attributes

Replace List

PUT

/axapi/v3/cgnv6/dns64-virtualserver/{name}

dns64-virtualserver-list

Delete Object

DELETE

/axapi/v3/cgnv6/dns64-virtualserver/{name}/oper

dns64-virtualserver attributes

dns64-virtualserver-list

dns64-virtualserver-list is **JSON List** of *dns64-virtualserver attributes*

dns64-virtualserver-list : [

{ *dns64-virtualserver attributes* },

{ *dns64-virtualserver attributes* },

...

]

dns64-virtualserver attributes

name

Description CGNV6 Virtual Server Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port-list

Type: List

Reference Object: */axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}*

oper

Specification	Value
Type	*object*

conn-rate-unit

Description

Type: string

Supported Values: 100ms, second

curr-conn-overflow

Description

Type: number

curr-conn-rate

Description

Type: number

curr-icmp-rate

Description

Type: number

curr-icmpv6-rate

Description

Type: number

icmp-lockup-time-left

Description

Type: number

icmp-rate-over-limit-drop

Description

Type: number

icmpv6-lockup-time-left

Description

Type: number

icmpv6-rate-over-limit-drop

Description

Type: number

ip-address

Description

Type: string

Format: ipv4-address

ip_only_lb_fwd_bytes

Description

Type: number

ip_only_lb_fwd_pkts

Description

Type: number

ip_only_lb_rev_bytes

Description

Type: number

ip_only_lb_rev_pkts

Description

Type: number

ipv6-address

Description

Type: string

Format: ipv6-address

mac

Description

Type: string

migration-status

Description

Type: string

peak-conn

Description

Type: number

state

Description

Type: string

Supported Values: All Up, Functional Up, Partial Up, Down, Disb, Unkn

port-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *port-list_oper*

Type: Object

port-number

Description Port

Type: number

Range: 0-65534

protocol

Description 'dns-udp': DNS service over UDP;

Type: string

Supported Values: dns-udp

port-list_oper

Specification	Value
Type	*object*

clear_curr_conn

Description

Type: boolean

Supported Values: true, false, 1, 0

cpu-count

Description

Type: number

curr_conn_overflow

Description

Type: number

geo_location

Description

Type: string

group_id

Description

Type: number

http-hits-list

Type: List

http-vport-cpu-list

Type: List

http_host_hits

Description

Type: boolean

Supported Values: true, false, 1, 0

http_url_hits

Description

Type: boolean

Supported Values: true, false, 1, 0

http_vport

Description

Type: boolean

Supported Values: true, false, 1, 0

int_curr_conn

Description

Type: number

level_str

Description

Type: string

loc_error

Description

Type: number

loc_last

Description

Type: string

loc_list

Description

Type: string

loc_max_depth

Description

Type: number

loc_override

Description

Type: number

loc_success

Description

Type: number

print_extended_stats

Description

Type: number

real_curr_conn

Description

Type: number

state

Description

Type: string

Supported Values: All Up, Functional Up, Down, Disb, Unkn

port-list_oper_http-hits-list

Specification	Value
Type	*list*
Block object keys	

hits-count

Description

Type: number

name

Description Name

Type: string

port-list_oper_http-vport-cpu-list

Specification	Value
Type	*list*
Block object keys	

REQ_100m

Description

Type: number

REQ_100u

Description

Type: number

REQ_10m

Description

Type: number

REQ_10u

Description

Type: number

REQ_1m

Description

Type: number

REQ_1s

Description

Type: number

REQ_200m

Description

Type: number

REQ_200u

Description

Type: number

REQ_20m

Description

Type: number

REQ_20u

Description

Type: number

REQ_2m

Description

Type: number

REQ_2s

Description

Type: number

REQ_500m

Description

Type: number

REQ_500u

Description

Type: number

REQ_50m

Description

Type: number

REQ_50u

Description

Type: number

REQ_5m

Description

Type: number

REQ_5s

Description

Type: number

REQ_OVER_5s

Description

Type: number

chunk_sz_1k

Description

Type: number

chunk_sz_2k

Description

Type: number

chunk_sz_4k

Description

Type: number

chunk_sz_512

Description

Type: number

chunk_sz_gt_4k

Description

Type: number

curr_http2_conn

Description

Type: number

doh_dns_malformed_query

Description

Type: number

doh_dns_query_type_a

Description

Type: number

doh_dns_query_type_aaaa

Description

Type: number

doh_dns_query_type_any

Description

Type: number

doh_dns_query_type_cname

Description

Type: number

doh_dns_query_type_mx

Description

Type: number

doh_dns_query_type_ns

Description

Type: number

doh_dns_query_type_others

Description

Type: number

doh_dns_query_type_soa

Description

Type: number

doh_dns_query_type_srv

Description

Type: number

doh_dns_resp_rcode_err_format

Description

Type: number

doh_dns_resp_rcode_err_name

Description

Type: number

doh_dns_resp_rcode_err_server

Description

Type: number

doh_dns_resp_rcode_err_type

Description

Type: number

doh_dns_resp_rcode_notauth

Description

Type: number

doh_dns_resp_rcode_notzone

Description

Type: number

doh_dns_resp_rcode_nxrrset

Description

Type: number

doh_dns_resp_rcode_other

Description

Type: number

doh_dns_resp_rcode_refuse

Description

Type: number

doh_dns_resp_rcode_yxdomain

Description

Type: number

doh_dns_resp_rcode_yxrrset

Description

Type: number

doh_get_base64_decode_failed

Description

Type: number

doh_get_dns_arg_failed

Description

Type: number

doh_get_uri_too_long

Description

Type: number

doh_malloc_fail

Description

Type: number

doh_non_doh_method

Description

Type: number

doh_non_doh_req

Description

Type: number

doh_non_doh_req_get

Description

Type: number

doh_non_doh_req_post

Description

Type: number

doh_path_not_found

Description

Type: number

doh_post_content_type_mismatch

Description

Type: number

doh_post_payload_extract_failed

Description

Type: number

doh_post_payload_not_found

Description

Type: number

doh_post_payload_too_large

Description

Type: number

doh_query_time_out

Description

Type: number

doh_req

Description

Type: number

doh_req_get

Description

Type: number

doh_req_post

Description

Type: number

doh_req_send_failed

Description

Type: number

doh_req_tcp_retry

Description

Type: number

doh_req_tcp_retry_fail

Description

Type: number

doh_req_udp_retry

Description

Type: number

doh_req_udp_retry_fail

Description

Type: number

doh_resp

Description

Type: number

doh_resp_header_alloc_failed

Description

Type: number

doh_resp_que_failed

Description

Type: number

doh_resp_send_failed

Description

Type: number

doh_resp_setup_failed

Description

Type: number

doh_resp_tcp_frags

Description

Type: number

doh_resp_udp_frags

Description

Type: number

doh_retry_w_tcp

Description

Type: number

doh_serv_sel_failed

Description

Type: number

doh_snat_failed

Description

Type: number

doh_tc_resp

Description

Type: number

doh_tcp_dns_req

Description

Type: number

doh_tcp_dns_resp

Description

Type: number

doh_tcp_send_failed

Description

Type: number

doh_udp_dns_req

Description

Type: number

doh_udp_dns_resp

Description

Type: number

doh_udp_send_failed

Description

Type: number

header_length_long

Description

Type: number

http2_control_bytes

Description

Type: number

http2_data_bytes

Description

Type: number

http2_goaway_received

Description

Type: number

http2_goaway_sent

Description

Type: number

http2_header_bytes

Description

Type: number

http2_reset_received

Description

Type: number

http2_reset_sent

Description

Type: number

jsi_api_no_auth_hdr

Description

Type: number

jsi_api_no_token

Description

Type: number

jsi_api_requests

Description

Type: number

jsi_api_responses

Description

Type: number

jsi_hash_add_fails

Description

Type: number

jsi_hash_lookup_fails

Description

Type: number

jsi_pri_requests

Description

Type: number

jsi_requests

Description

Type: number

jsi_responses

Description

Type: number

jsi_skip_no_fi

Description

Type: number

jsi_skip_no_ua

Description

Type: number

jsi_skip_not_browser

Description

Type: number

peak_http2_conn

Description

Type: number

req_connect

Description

Type: number

req_content_len

Description

Type: number

req_delete

Description

Type: number

req_get

Description

Type: number

req_head

Description

Type: number

req_options

Description

Type: number

req_post

Description

Type: number

req_put

Description

Type: number

req_sz_16k

Description

Type: number

req_sz_1k

Description

Type: number

req_sz_256k

Description

Type: number

req_sz_2k

Description

Type: number

req_sz_32k

Description

Type: number

req_sz_4k

Description

Type: number

req_sz_64k

Description

Type: number

req_sz_8k

Description

Type: number

req_sz_gt_256k

Description

Type: number

req_trace

Description

Type: number

req_track

Description

Type: number

req_unknown

Description

Type: number

rsp_chunk

Description

Type: number

rsp_sz_16k

Description

Type: number

rsp_sz_1k

Description

Type: number

rsp_sz_256k

Description

Type: number

rsp_sz_2k

Description

Type: number

rsp_sz_32k

Description

Type: number

rsp_sz_4k

Description

Type: number

rsp_sz_64k

Description

Type: number

rsp_sz_8k

Description

Type: number

rsp_sz_gt_256k

Description

Type: number

status_100

Description

Type: number

status_101

Description

Type: number

status_102

Description

Type: number

status_1xx

Description

Type: number

status_200

Description

Type: number

status_201

Description

Type: number

status_202

Description

Type: number

status_203

Description

Type: number

status_204

Description

Type: number

status_205

Description

Type: number

status_206

Description

Type: number

status_207

Description

Type: number

status_2xx

Description

Type: number

status_300

Description

Type: number

status_301

Description

Type: number

status_302

Description

Type: number

status_303

Description

Type: number

status_304

Description

Type: number

status_305

Description

Type: number

status_306

Description

Type: number

status_307

Description

Type: number

status_3xx

Description

Type: number

status_400

Description

Type: number

status_401

Description

Type: number

status_402

Description

Type: number

status_403

Description

Type: number

status_404

Description

Type: number

status_405

Description

Type: number

status_406

Description

Type: number

status_407

Description

Type: number

status_408

Description

Type: number

status_409

Description

Type: number

status_410

Description

Type: number

status_411

Description

Type: number

status_412

Description

Type: number

status_413

Description

Type: number

status_414

Description

Type: number

status_415

Description

Type: number

status_416

Description

Type: number

status_417

Description

Type: number

status_418

Description

Type: number

status_422

Description

Type: number

status_423

Description

Type: number

status_424

Description

Type: number

status_425

Description

Type: number

status_426

Description

Type: number

status_449

Description

Type: number

status_450

Description

Type: number

status_4xx

Description

Type: number

status_500

Description

Type: number

status_501

Description

Type: number

status_502

Description

Type: number

status_503

Description

Type: number

status_504

Description

Type: number

status_504_ax

Description

Type: number

status_505

Description

Type: number

status_506

Description

Type: number

status_507

Description

Type: number

status_508

Description

Type: number

status_509

Description

Type: number

status_510

Description

Type: number

status_5xx

Description

Type: number

status_6xx

Description

Type: number

status_unknown

Description

Type: number

stream_closed

Description

Type: number

total_http2_bytes

Description

Type: number

total_http2_conn

Description

Type: number

ws_client_switch

Description

Type: number

ws_handshake_request

Description

Type: number

ws_handshake_success

Description

Type: number

ws_server_switch

Description

Type: number

2.26.14 cgnv6 dns64-virtualserver port

Virtual Port

port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-number, protocol*
Collection Name	*port-list*
Collection URI	/axapi/v3/cgnv6/dns64-virtualserver/{name}/port
Element Name	port
Element URI	/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}
Element Attributes	port_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}/stats
Operational Data URI	/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}/oper
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port

port attributes

Create List

POST

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port

port attributes

Get Object

GET

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}

port attributes

Get List

GET

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port

port-list

Modify Object

POST

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}

port attributes

Replace Object

PUT

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}

port attributes

Replace List

PUT

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port

port-list

Delete Object

DELETE

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}

port attributes

port-list

port-list is **JSON List** of *port attributes*

port-list : [

{ *port attributes* },

{ *port attributes* },

…

]

port attributes

acl-id-list

Type: List

acl-name-list

Type: List

action

Description 'enable': Enable; 'disable': Disable;

Type: string

Supported Values: enable, disable

Default: enable

auto

Description Configure auto NAT for the vport

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/cgnv6-dns64-vs-port-tmpl*

pool

Description Specify NAT pool or pool group

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ip/nat/pool*

port-number

Description Port

Type: number

Range: 0-65534

precedence

Description Set auto NAT pool as higher precedence for source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

protocol

Description 'dns-udp': DNS service over UDP;

Type: string

Supported Values: dns-udp

sampling-enable

Type: List

service-group

Description Bind a Service Group to this Virtual Server (Service Group Name)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/service-group*

template-dns

Description DNS template (DNS template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/dns*

template-policy

Description Policy Template (Policy template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/policy*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr_conn': Current connection; 'total_l4_conn': Total L4 connections; 'total_l7_conn': Total L7 connections; 'toatal_tcp_conn': Total TCP connections; 'total_conn': Total connections; 'total_fwd_bytes': Total forward bytes; 'total_fwd_pkts': Total forward packets; 'total_rev_bytes': Total reverse bytes; 'total_rev_pkts': Total reverse packets; 'total_dns_pkts': Total DNS packets; 'total_mf_dns_pkts': Total MF DNS packets; 'es_total_failure_actions': Total failure actions; 'compression_bytes_before': Data into compression engine; 'compression_bytes_after': Data out of compression engine; 'compression_hit': Number of requests compressed; 'compression_miss': Number of requests

NOT compressed; 'compression_miss_no_client': Compression miss no client; 'compression_miss_template_exclusion': Compression miss template exclusion; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total successful requests; 'peak_conn': Peak connections; 'curr_conn_rate': Current connection rate; 'last_rsp_time': Last response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time;

Type: string

Supported Values: all, curr_conn, total_l4_conn, total_l7_conn, toatal_tcp_conn, total_conn, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_dns_pkts, total_mf_dns_pkts, es_total_failure_actions, compression_bytes_before, compression_bytes_after, compression_hit, compression_miss, compression_miss_no_client, compression_miss_template_exclusion, curr_req, total_req, total_req_succ, peak_conn, curr_conn_rate, last_rsp_time, fastest_rsp_time, slowest_rsp_time

acl-name-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description Apply an access list name (Named Access List)

Type: string

Format: string-rlx

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ip/access-list*

acl-name-seq-num

Description Specify ACL precedence (sequence-number)

Type: number

Range: 1-32

acl-name-src-nat-pool

Description Policy based Source NAT (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ip/nat/pool*

acl-id-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id VPORT

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

acl-id-seq-num

Description Specify ACL precedence (sequence-number)

Type: number

Range: 1-32

acl-id-src-nat-pool

Description Policy based Source NAT (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ip/nat/pool*

2.26.15 cgnv6 dns64-virtualserver port oper

Operational Status for the object port

port Specification

Parameter	Value
Type	*Collection*
Collection Name	*port-list*
Collection URI	/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}
Element Name	port
Element URI	/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}/oper
Element Attributes	port_attributes
Partition Visibility	None
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}

port attributes

Create List

POST

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}

port attributes

Get Object

GET

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}/oper

port attributes

Get List

GET

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}

port-list

Modify Object

POST

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}/oper

port attributes

Replace Object

PUT

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}/oper

port attributes

Replace List

PUT

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}

port-list

Delete Object

DELETE

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}/oper

port attributes

port-list

port-list is **JSON List** of *port attributes*

port-list : [

{ *port attributes* },

{ *port attributes* },

...

]

port attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port-number

Description Port

Type: number

Range: 0-65534

protocol

Description 'dns-udp': DNS service over UDP;

Type: string

Supported Values: dns-udp

oper

Specification	Value
Type	*object*

clear_curr_conn

Description

Type: boolean

Supported Values: true, false, 1, 0

cpu-count

Description

Type: number

curr_conn_overflow

Description

Type: number

geo_location

Description

Type: string

group_id

Description

Type: number

http-hits-list

Type: List

http-vport-cpu-list

Type: List

http_host_hits

Description

Type: boolean

Supported Values: true, false, 1, 0

http_url_hits

Description

Type: boolean

Supported Values: true, false, 1, 0

http_vport

Description

Type: boolean

Supported Values: true, false, 1, 0

int_curr_conn

Description

Type: number

level_str

Description

Type: string

loc_error

Description

Type: number

loc_last

Description

Type: string

loc_list

Description

Type: string

loc_max_depth

Description

Type: number

loc_override

Description

Type: number

loc_success

Description

Type: number

print_extended_stats

Description

Type: number

real_curr_conn

Description

Type: number

state

Description

Type: string

Supported Values: All Up, Functional Up, Down, Disb, Unkn

oper_http-hits-list

Specification	Value
Type	*list*
Block object keys	

hits-count

Description

Type: number

name

Description Name

Type: string

oper_http-vport-cpu-list

Specification	Value
Type	*list*
Block object keys	

REQ_100m

Description

Type: number

REQ_100u

Description

Type: number

REQ_10m

Description

Type: number

REQ_10u

Description

Type: number

REQ_1m

Description

Type: number

REQ_1s

Description

Type: number

REQ_200m

Description

Type: number

REQ_200u

Description

Type: number

REQ_20m

Description

Type: number

REQ_20u

Description

Type: number

REQ_2m

Description

Type: number

REQ_2s

Description

Type: number

REQ_500m

Description

Type: number

REQ_500u

Description

Type: number

REQ_50m

Description

Type: number

REQ_50u

Description

Type: number

REQ_5m

Description

Type: number

REQ_5s

Description

Type: number

REQ_OVER_5s

Description

Type: number

chunk_sz_1k

Description

Type: number

chunk_sz_2k

Description

Type: number

chunk_sz_4k

Description

Type: number

chunk_sz_512

Description

Type: number

chunk_sz_gt_4k

Description

Type: number

curr_http2_conn

Description

Type: number

doh_dns_malformed_query

Description

Type: number

doh_dns_query_type_a

Description

Type: number

doh_dns_query_type_aaaa

Description

Type: number

doh_dns_query_type_any

Description

Type: number

doh_dns_query_type_cname

Description

Type: number

doh_dns_query_type_mx

Description

Type: number

doh_dns_query_type_ns

Description

Type: number

doh_dns_query_type_others

Description

Type: number

doh_dns_query_type_soa

Description

Type: number

doh_dns_query_type_srv

Description

Type: number

doh_dns_resp_rcode_err_format

Description

Type: number

doh_dns_resp_rcode_err_name

Description

Type: number

doh_dns_resp_rcode_err_server

Description

Type: number

doh_dns_resp_rcode_err_type

Description

Type: number

doh_dns_resp_rcode_notauth

Description

Type: number

doh_dns_resp_rcode_notzone

Description

Type: number

doh_dns_resp_rcode_nxrrset

Description

Type: number

doh_dns_resp_rcode_other

Description

Type: number

doh_dns_resp_rcode_refuse

Description

Type: number

doh_dns_resp_rcode_yxdomain

Description

Type: number

doh_dns_resp_rcode_yxrrset

Description

Type: number

doh_get_base64_decode_failed

Description

Type: number

doh_get_dns_arg_failed

Description

Type: number

doh_get_uri_too_long

Description

Type: number

doh_malloc_fail

Description

Type: number

doh_non_doh_method

Description

Type: number

doh_non_doh_req

Description

Type: number

doh_non_doh_req_get

Description

Type: number

doh_non_doh_req_post

Description

Type: number

doh_path_not_found

Description

Type: number

doh_post_content_type_mismatch

Description

Type: number

doh_post_payload_extract_failed

Description

Type: number

doh_post_payload_not_found

Description

Type: number

doh_post_payload_too_large

Description

Type: number

doh_query_time_out

Description

Type: number

doh_req

Description

Type: number

doh_req_get

Description

Type: number

doh_req_post

Description

Type: number

doh_req_send_failed

Description

Type: number

doh_req_tcp_retry

Description

Type: number

doh_req_tcp_retry_fail

Description

Type: number

doh_req_udp_retry

Description

Type: number

doh_req_udp_retry_fail

Description

Type: number

doh_resp

Description

Type: number

doh_resp_header_alloc_failed

Description

Type: number

doh_resp_que_failed

Description

Type: number

doh_resp_send_failed

Description

Type: number

doh_resp_setup_failed

Description

Type: number

doh_resp_tcp_frags

Description

Type: number

doh_resp_udp_frags

Description

Type: number

doh_retry_w_tcp

Description

Type: number

doh_serv_sel_failed

Description

Type: number

doh_snat_failed

Description

Type: number

doh_tc_resp

Description

Type: number

doh_tcp_dns_req

Description

Type: number

doh_tcp_dns_resp

Description

Type: number

doh_tcp_send_failed

Description

Type: number

doh_udp_dns_req

Description

Type: number

doh_udp_dns_resp

Description

Type: number

doh_udp_send_failed

Description

Type: number

header_length_long

Description

Type: number

http2_control_bytes

Description

Type: number

http2_data_bytes

Description

Type: number

http2_goaway_received

Description

Type: number

http2_goaway_sent

Description

Type: number

http2_header_bytes

Description

Type: number

http2_reset_received

Description

Type: number

http2_reset_sent

Description

Type: number

jsi_api_no_auth_hdr

Description

Type: number

jsi_api_no_token

Description

Type: number

jsi_api_requests

Description

Type: number

jsi_api_responses

Description

Type: number

jsi_hash_add_fails

Description

Type: number

jsi_hash_lookup_fails

Description

Type: number

jsi_pri_requests

Description

Type: number

jsi_requests

Description

Type: number

jsi_responses

Description

Type: number

jsi_skip_no_fi

Description

Type: number

jsi_skip_no_ua

Description

Type: number

jsi_skip_not_browser

Description

Type: number

peak_http2_conn

Description

Type: number

req_connect

Description

Type: number

req_content_len

Description

Type: number

req_delete

Description

Type: number

req_get

Description

Type: number

req_head

Description

Type: number

req_options

Description

Type: number

req_post

Description

Type: number

req_put

Description

Type: number

req_sz_16k

Description

Type: number

req_sz_1k

Description

Type: number

req_sz_256k

Description

Type: number

req_sz_2k

Description

Type: number

req_sz_32k

Description

Type: number

req_sz_4k

Description

Type: number

req_sz_64k

Description

Type: number

req_sz_8k

Description

Type: number

req_sz_gt_256k

Description

Type: number

req_trace

Description

Type: number

req_track

Description

Type: number

req_unknown

Description

Type: number

rsp_chunk

Description

Type: number

rsp_sz_16k

Description

Type: number

rsp_sz_1k

Description

Type: number

rsp_sz_256k

Description

Type: number

rsp_sz_2k

Description

Type: number

rsp_sz_32k

Description

Type: number

rsp_sz_4k

Description

Type: number

rsp_sz_64k

Description

Type: number

rsp_sz_8k

Description

Type: number

rsp_sz_gt_256k

Description

Type: number

status_100

Description

Type: number

status_101

Description

Type: number

status_102

Description

Type: number

status_1xx

Description

Type: number

status_200

Description

Type: number

status_201

Description

Type: number

status_202

Description

Type: number

status_203

Description

Type: number

status_204

Description

Type: number

status_205

Description

Type: number

status_206

Description

Type: number

status_207

Description

Type: number

status_2xx

Description

Type: number

status_300

Description

Type: number

status_301

Description

Type: number

status_302

Description

Type: number

status_303

Description

Type: number

status_304

Description

Type: number

status_305

Description

Type: number

status_306

Description

Type: number

status_307

Description

Type: number

status_3xx

Description

Type: number

status_400

Description

Type: number

status_401

Description

Type: number

status_402

Description

Type: number

status_403

Description

Type: number

status_404

Description

Type: number

status_405

Description

Type: number

status_406

Description

Type: number

status_407

Description

Type: number

status_408

Description

Type: number

status_409

Description

Type: number

status_410

Description

Type: number

status_411

Description

Type: number

status_412

Description

Type: number

status_413

Description

Type: number

status_414

Description

Type: number

status_415

Description

Type: number

status_416

Description

Type: number

status_417

Description

Type: number

status_418

Description

Type: number

status_422

Description

Type: number

status_423

Description

Type: number

status_424

Description

Type: number

status_425

Description

Type: number

status_426

Description

Type: number

status_449

Description

Type: number

status_450

Description

Type: number

status_4xx

Description

Type: number

status_500

Description

Type: number

status_501

Description

Type: number

status_502

Description

Type: number

status_503

Description

Type: number

status_504

Description

Type: number

status_504_ax

Description

Type: number

status_505

Description

Type: number

status_506

Description

Type: number

status_507

Description

Type: number

status_508

Description

Type: number

status_509

Description

Type: number

status_510

Description

Type: number

status_5xx

Description

Type: number

status_6xx

Description

Type: number

status_unknown

Description

Type: number

stream_closed

Description

Type: number

total_http2_bytes

Description

Type: number

total_http2_conn

Description

Type: number

ws_client_switch

Description

Type: number

ws_handshake_request

Description

Type: number

ws_handshake_success

Description

Type: number

ws_server_switch

Description

Type: number

2.26.16 cgnv6 dns64-virtualserver port stats

Statistics for the object port

port Specification

Parameter	Value
Type	*Collection*
Collection Name	*port-list*
Collection URI	/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}
Element Name	port
Element URI	/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}/stats
Element Attributes	port_attributes
Partition Visibility	None
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}

port attributes

Create List

POST

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}

port attributes

Get Object

GET

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}/stats

port attributes

Get List

GET

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}

port-list

Modify Object

POST

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}/stats

port attributes

Replace Object

PUT

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}/stats

port attributes

Replace List

PUT

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}

port-list

Delete Object

DELETE

/axapi/v3/cgnv6/dns64-virtualserver/{name}/port/{port-number}+{protocol}/stats

port attributes

port-list

port-list is **JSON List** of *port attributes*

```
port-list : [
        { port attributes },
        { port attributes },
        ...
    ]
```

port attributes

port-number

Description Port

Type: number

Range: 0-65534

protocol

Description 'dns-udp': DNS service over UDP;

Type: string

Supported Values: dns-udp

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

compression_bytes_after

Description Data out of compression engine

Type: number

Format: counter

compression_bytes_before

Description Data into compression engine

Type: number

Format: counter

compression_hit

Description Number of requests compressed

Type: number

Format: counter

compression_miss

Description Number of requests NOT compressed

Type: number

Format: counter

compression_miss_no_client

Description Compression miss no client

Type: number

Format: counter

compression_miss_template_exclusion

Description Compression miss template exclusion

Type: number

Format: counter

curr_conn

Description Current connection

Type: number

Format: counter

curr_conn_rate

Description Current connection rate

Type: number

Format: counter

curr_req

Description Current requests

Type: number

Format: counter

es_total_failure_actions

Description Total failure actions

Type: number

Format: counter

fastest_rsp_time

Description Fastest response time

Type: number

Format: counter

last_rsp_time

Description Last response time

Type: number

Format: counter

peak_conn

Description Peak connections

Type: number

Format: counter

slowest_rsp_time

Description Slowest response time

Type: number

Format: counter

toatal_tcp_conn

Description Total TCP connections

Type: number

Format: counter

total_conn

Description Total connections

Type: number

Format: counter

total_dns_pkts

Description Total DNS packets

Type: number

Format: counter

total_fwd_bytes

Description Total forward bytes

Type: number

Format: counter

total_fwd_pkts

Description Total forward packets

Type: number

Format: counter

total_l4_conn

Description Total L4 connections

Type: number

Format: counter

total_l7_conn

Description Total L7 connections

Type: number

Format: counter

total_mf_dns_pkts

Description Total MF DNS packets

Type: number

Format: counter

total_req

Description Total requests

Type: number

Format: counter

total_req_succ

Description Total successful requests

Type: number

Format: counter

total_rev_bytes

Description Total reverse bytes

Type: number

Format: counter

total_rev_pkts

Description Total reverse packets

Type: number

Format: counter

2.26.17 cgnv6 ds-lite

Configure Dual-Stack Lite (DS-Lite)

ds-lite Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	ds-lite
Element URI	/axapi/v3/cgnv6/ds-lite
Element Attributes	ds-lite_attributes
Partition Visibility	shared
Schema	`ds-lite schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/ds-lite

ds-lite_attributes

ds-lite attributes

alg

Description: alg is a **JSON Block**. Please see below for *alg*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/fragmentation*

full-cone-session

Description: full-cone-session is a **JSON Block**. Please see below for *full-cone-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/full-cone-session*

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/global*

port-reservation-entries

Description: port-reservation-entries is a **JSON Block**. Please see below for *port-reservation-entries*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/port-reservation-entries*

port-reservation-list

Type: List

Reference Object: */axapi/v3/cgnv6/ds-lite/port-reservation/{inside}+{tunnel-dest-address}+{inside-addr}+{inside-start-port}+{inside-end-port}+{nat}+{nat-start-port}+{nat-end-port}*

user-quota-session

Description: user-quota-session is a **JSON Block**. Please see below for *user-quota-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/user-quota-session*

fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/fragmentation/outbound*

fragmentation_inbound

Specification	Value
Type	*object*

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 Fragmentation; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv4, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fragmentation_outbound

Specification	Value
Type	*object*

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 Fragmentation; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmp, send-icmpv6

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMPv6 Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

full-cone-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg

Specification	Value
Type	*object*

ftp

Description: ftp is a **JSON Block**. Please see below for *alg_ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/ftp*

h323

Description: h323 is a **JSON Block**. Please see below for *alg_h323*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/h323*

mgcp

Description: mgcp is a **JSON Block**. Please see below for *alg_mgcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/mgcp*

pptp

Description: pptp is a **JSON Block**. Please see below for *alg_pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/pptp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *alg_rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *alg_sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *alg_tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/tftp*

alg_ftp

Specification	Value
Type	*object*

ftp-enable

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_sip

Specification	Value
Type	*object*

sip-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_pptp

Specification	Value
Type	*object*

pptp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_rtsp

Specification	Value
Type	*object*

rtsp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_h323

Specification	Value
Type	*object*

h323-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_tftp

Specification	Value
Type	*object*

tftp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_mgcp

Specification	Value
Type	*object*

mgcp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global

Specification	Value
Type	*object*

icmp

Description: icmp is a **JSON Block**. Please see below for *global_icmp*

Type: Object

inside

Description: inside is a **JSON Block**. Please see below for *global_inside*

Type: Object

ip-checksum-error

Description 'fix': Fix the bad checksum (default); 'drop': Drop packets with a bad checksum;

Type: string

Supported Values: fix, drop

Default: fix

l4-checksum-error

Description 'propagate': Propagate the bad checksum (default); 'fix': Fix the bad checksum; 'drop': Drop packets with a bad checksum;

Type: string

Supported Values: propagate, fix, drop

Default: propagate

sampling-enable

Type: List

tcp

Description: tcp is a **JSON Block**. Please see below for *global_tcp*

Type: Object

user-quota-prefix-length

Description User Quota Prefix Length (Default: 128)

Type: number

Range: 1-128

Default: 128

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global_inside

Specification	Value
Type	*object*

source

Description: source is a **JSON Block**. Please see below for *global_inside_source*

Type: Object

global_inside_source

Specification	Value
Type	*object*

class-list

Description Class-list to match for DS-Lite

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

global_tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *global_tcp_mss-clamp*

Type: Object

reset-on-error

Description: reset-on-error is a **JSON Block**. Please see below for *global_tcp_reset-on-error*

Type: Object

global_tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: ((576 - 60 - 60 - 40))))

Type: number

Range: 0-1420

Default: 416

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'none': No TCP MSS clamping; 'subtract': Specify the value to subtract from the TCP MSS (default: 40);

Type: string

Supported Values: fixed, none, subtract

Default: subtract

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: 40)

Type: number

Range: 0-1420

Default: 40

mss-value

Description The max value allowed for the TCP MSS (default: not configured)

Type: number

Range: 0-1420

global_tcp_reset-on-error

Specification	Value
Type	*object*

outbound

Description 'disable': Disable send TCP reset on error;

Type: string

Supported Values: disable

global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_tcp_allocated': Total TCP Ports Allocated; 'total_tcp_freed': Total TCP Ports Freed; 'total_udp_allocated': Total UDP Ports Allocated; 'total_udp_freed': Total UDP Ports Freed; 'total_icmp_allocated': Total ICMP Ports Allocated; 'total_icmp_freed': Total ICMP Ports Freed; 'data_session_created': Data Session Created; 'data_session_freed': Data Session Freed; 'user_quota_created': User-Quota Created; 'user_quota_put_in_del_q': User-Quota Freed; 'user_quota_failure': User-Quota Creation Failed; 'nat_port_unavailable_tcp': TCP NAT Port Unavailable; 'nat_port_unavailable_udp': UDP NAT Port Unavailable; 'nat_port_unavailable_icmp': ICMP NAT Port Unavailable; 'new_user_resource_unavailable': New User NAT Resource Unavailable; 'tcp_user_quota_exceeded': TCP User-Quota Exceeded; 'udp_user_quota_exceeded': UDP User-Quota Exceeded; 'icmp_user_quota_exceeded': ICMP User-Quota Exceeded; 'extended_quota_matched': Extended User-Quota Matched; 'extended_quota_exceeded': Extended User-Quota Exceeded; 'data_sesn_user_quota_exceeded': Data Session User-Quota Exceeded; 'data_sesn_rate_user_quota_exceeded': Conn Rate User-Quota Exceeded; 'tcp_fullcone_created': TCP Full-cone Session Created; 'tcp_fullcone_freed': TCP Full-cone Session Freed; 'udp_fullcone_created': UDP Full-cone Session Created; 'udp_fullcone_freed': UDP Full-cone Session Freed; 'fullcone_failure': Full-cone Session Creation Failed; 'hairpin': Hairpin Session Created; 'fullcone_self_hairpinning_drop': Self-Hairpinning Drop; 'endpoint_indep_map_match': Endpoint-Independent Mapping Matched; 'endpoint_indep_filter_match': Endpoint-Independent Filtering Matched; 'inbound_filtered': Endpoint-Dependent Filtering Drop; 'eif_limit_exceeded': Endpoint-Independent Filtering Inbound Limit Exceeded; 'total_tcp_overloaded': TCP Port Overloaded; 'total_udp_overloaded': UDP Port Overloaded; 'port_overloading_smp_inserted_tcp': TCP Port Overloading Session Created; 'port_overloading_smp_inserted_udp': UDP Port Overloading Session Created; 'port_overloading_smp_free_tcp': TCP Port Overloading Session Freed; 'port_overloading_smp_free_udp': UDP Port Overloading Session Freed; 'nat_pool_unusable': NAT Pool Unusable; 'ha_nat_pool_unusable': HA NAT Pool Unusable; 'ha_nat_pool_batch_type_mismatch': HA NAT Pool Batch Type Mismatch; 'no_radius_profile_match': No RADIUS Profile Match; 'truncated_packet': Truncated Packet; 'lid_drop': LSN LID Drop; 'lid_pass_through': LSN LID Pass-through; 'no_class_list_match': No Class-List Match; 'class_list_permit_drop': Permit Class-List Drop; 'user_quota_mem_allocated': User-Quota Memory Allocated; 'user_quota_mem_freed': User-Quota Memory Freed; 'user_quota_created_shadow': Total User-Quota Created; 'quota_marked_deleted': User-Quota Marked Deleted; 'quota_delete_not_in_bucket': User-Quota Delete Not In Bucket; 'user_quota_put_in_del_q_shadow': Total User-Quota Put In Del Q; 'prefix_quota_created': Total Prefix Quota Created; 'prefix_quota_put_in_del_q': Total Prefix Quota Freed; 'prefix_quota_failure': Total Prefix Quota Failure; 'total_user_quota_created': Total Quota Structure Created; 'total_user_quota_put_in_del_q': Total Quota Structure Freed; 'total_user_quota_failure': Total Quota Structure Failure; 'tcp_out_of_state_rst_sent': Total Out of State TCP RST sent; 'tcp_out_of_state_rst_dropped': Total Out of State TCP RST dropped; 'icmp_out_of_state_uqe_admin_filtered_sent': Total User Quota Exceeded ICMP admin filtered sent; 'icmp_out_of_state_uqe_host_unreachable_sent': Total User Quota Exceeded ICMP host unreachable sent; 'icmp_out_of_state_uqe_dropped': Total User Queue Exceeded ICMP notification dropped; 'user_quota_not_found':

User-Quota Not Found; 'tcp_fullcone_created_shadow': Total TCP Full-cone sessions created; 'tcp_fullcone_freed_shadow': Total TCP Full-cone sessions freed; 'udp_fullcone_created_shadow': Total UDP Full-cone sessions created; 'udp_fullcone_freed_shadow': Total UDP Full-cone sessions freed; 'udp_alg_fullcone_created': Total UDP ALG Full-cone sessions created; 'udp_alg_fullcone_freed': Total UDP ALG Full-cone sessions freed; 'fullcone_created': Total Full-cone sessions created; 'fullcone_freed': Total Full-cone sessions freed; 'data_session_created_shadow': Total Data Sessions Created; 'data_session_freed_shadow': Total Data Sessions Freed; 'data_session_user_quota_mismatch': Data Session Counter Per User Mismatch; 'extended_quota_mismatched': Extended User-Quota Mismatched; 'nat_port_unavailable_other': Other NAT Port Unavailable; 'nat_port_unavailable': Total NAT Port Unavailable; 'new_user_resource_unavailable_tcp': TCP New User NAT Resource Unavailable; 'new_user_resource_unavailable_udp': UDP New User NAT Resource Unavailable; 'new_user_resource_unavailable_icmp': ICMP New User NAT Resource Unavailable; 'new_user_resource_unavailable_other': Other New User NAT Resource Unavailable; 'total_tcp_allocated_shadow': Total TCP Ports Allocated; 'total_tcp_freed_shadow': Total TCP Ports Freed; 'total_udp_allocated_shadow': Total UDP Ports Allocated; 'total_udp_freed_shadow': Total UDP Ports Freed; 'total_icmp_allocated_shadow': Total ICMP Ports Allocated; 'total_icmp_freed_shadow': Total ICMP Ports Freed; 'udp_alg_no_quota': UDP ALG User-Quota Not Found; 'udp_alg_eim_mismatch': UDP ALG Endpoint-Independent Mapping Mismatch; 'udp_alg_no_nat_ip': UDP ALG User-Quota Unknown NAT IP; 'udp_alg_alloc_failure': UDP ALG Port Allocation Failure; 'sip_alg_no_quota': SIP ALG User-Quota Not Found; 'sip_alg_quota_inc_failure': SIP ALG User-Quota Exceeded; 'sip_alg_no_nat_ip': SIP ALG Unknown NAT IP; 'sip_alg_reuse_contact_fullcone': SIP ALG Reuse Contact Full-cone Session; 'sip_alg_contact_fullcone_mismatch': SIP ALG Contact Full-cone Session Mismatch; 'sip_alg_alloc_contact_port_failure': SIP ALG Alloc Contact NAT Port Failure; 'sip_alg_create_contact_fullcone_failure': SIP ALG Create Contact Full-cone Session Failure; 'sip_alg_release_contact_port_failure': SIP ALG Release Contact NAT Port Failure; 'sip_alg_single_rtp_fullcone': SIP ALG Single RTP Full-cone Found; 'sip_alg_single_rtcp_fullcone': SIP ALG Single RTCP Full-cone Found; 'sip_alg_rtcp_fullcone_mismatch': SIP ALG RTCP Full-cone NAT Port Mismatch; 'sip_alg_reuse_rtp_rtcp_fullcone': SIP ALG Reuse RTP/RTCP Full-cone Session; 'sip_alg_alloc_rtp_rtcp_port_failure': SIP ALG Alloc RTP/RTCP NAT Ports Failure; 'sip_alg_alloc_single_port_failure': SIP ALG Alloc Single RTP or RTCP NAT Port Failure; 'sip_alg_create_single_fullcone_failure': SIP ALG Create Single RTP or RTCP Full-cone Session Failure; 'sip_alg_create_rtp_fullcone_failure': SIP ALG Create RTP Full-cone Session Failure; 'sip_alg_create_rtcp_fullcone_failure': SIP ALG Create RTCP Full-cone Session Failure; 'sip_alg_port_pair_alloc_from_consecutive': SIP ALG Port Pair Allocated From Consecutive; 'sip_alg_port_pair_alloc_from_partition': SIP ALG Port Pair Allocated From Partition; 'sip_alg_port_pair_alloc_from_pool_port_batch': SIP ALG Port Pair Allocated From Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_consecutive': SIP ALG Port Pair Allocated From Quota Consecutive; 'sip_alg_port_pair_alloc_from_quota_partition': SIP ALG Port Pair Allocated From Quota Partition; 'sip_alg_port_pair_alloc_from_quota_partition_error': SIP ALG Port Pair Allocated From Quota Partition Error; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch': SIP ALG Port Pair Allocated From Quota Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag': SIP ALG Port Pair Allocated From Quota Port Batch Version 2 with Frag Free Ports;

Type: string

Supported Values: all, total_tcp_allocated, total_tcp_freed, total_udp_allocated, total_udp_freed, total_icmp_allocated, total_icmp_freed, data_session_created, data_session_freed, user_quota_created, user_quota_put_in_del_q, user_quota_failure, nat_port_unavailable_tcp, nat_port_unavailable_udp, nat_port_unavailable_icmp, new_user_resource_unavailable, tcp_user_quota_exceeded, udp_user_quota_exceeded,

icmp_user_quota_exceeded, extended_quota_matched, extended_quota_exceeded, data_sesn_user_quota_exceeded, data_sesn_rate_user_quota_exceeded, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_failure, hairpin, fullcone_self_hairpinning_drop, endpoint_indep_map_match, endpoint_indep_filter_match, inbound_filtered, eif_limit_exceeded, total_tcp_overloaded, total_udp_overloaded, port_overloading_smp_inserted_tcp, port_overloading_smp_inserted_udp, port_overloading_smp_free_tcp, port_overloading_smp_free_udp, nat_pool_unusable, ha_nat_pool_unusable, ha_nat_pool_batch_type_mismatch, no_radius_profile_match, truncated_packet, lid_drop, lid_pass_through, no_class_list_match, class_list_permit_drop, user_quota_mem_allocated, user_quota_mem_freed, user_quota_created_shadow, quota_marked_deleted, quota_delete_not_in_bucket, user_quota_put_in_del_q_shadow, prefix_quota_created, prefix_quota_put_in_del_q, prefix_quota_failure, total_user_quota_created, total_user_quota_put_in_del_q, total_user_quota_failure, tcp_out_of_state_rst_sent, tcp_out_of_state_rst_dropped, icmp_out_of_state_uqe_admin_filtered_sent, icmp_out_of_state_uqe_host_unreachable_sent, icmp_out_of_state_uqe_dropped, user_quota_not_found, tcp_fullcone_created_shadow, tcp_fullcone_freed_shadow, udp_fullcone_created_shadow, udp_fullcone_freed_shadow, udp_alg_fullcone_created, udp_alg_fullcone_freed, fullcone_created, fullcone_freed, data_session_created_shadow, data_session_freed_shadow, data_session_user_quota_mismatch, extended_quota_mismatched, nat_port_unavailable_other, nat_port_unavailable, new_user_resource_unavailable_tcp, new_user_resource_unavailable_udp, new_user_resource_unavailable_icmp, new_user_resource_unavailable_other, total_tcp_allocated_shadow, total_tcp_freed_shadow, total_udp_allocated_shadow, total_udp_freed_shadow, total_icmp_allocated_shadow, total_icmp_freed_shadow, udp_alg_no_quota, udp_alg_eim_mismatch, udp_alg_no_nat_ip, udp_alg_alloc_failure, sip_alg_no_quota, sip_alg_quota_inc_failure, sip_alg_no_nat_ip, sip_alg_reuse_contact_fullcone, sip_alg_contact_fullcone_mismatch, sip_alg_alloc_contact_port_failure, sip_alg_create_contact_fullcone_failure, sip_alg_release_contact_port_failure, sip_alg_single_rtp_fullcone, sip_alg_single_rtcp_fullcone, sip_alg_rtcp_fullcone_mismatch, sip_alg_reuse_rtp_rtcp_fullcone, sip_alg_alloc_rtp_rtcp_port_failure, sip_alg_alloc_single_port_failure, sip_alg_create_single_fullcone_failure, sip_alg_create_rtp_fullcone_failure, sip_alg_create_rtcp_fullcone_failure, sip_alg_port_pair_alloc_from_consecutive, sip_alg_port_pair_alloc_from_partition, sip_alg_port_pair_alloc_from_pool_port_batch, sip_alg_port_pair_alloc_from_quota_consecutive, sip_alg_port_pair_alloc_from_quota_partition, sip_alg_port_pair_alloc_from_quota_partition_error, sip_alg_port_pair_alloc_from_quota_pool_port_batch, sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag

counters2

Description 'h323_alg_no_quota': H323 ALG User-Quota Not Found; 'h323_alg_quota_inc_failure': H323 ALG User-Quota Exceeded; 'h323_alg_no_nat_ip': H323 ALG Unknown NAT IP; 'h323_alg_reuse_fullcone': H323 ALG Reuse Full-cone Session; 'h323_alg_fullcone_mismatch': H323 ALG Full-cone Session Mismatch; 'h323_alg_alloc_port_failure': H323 ALG Alloc NAT Port Failure; 'h323_alg_create_fullcone_failure': H323 ALG Create Full-cone Session Failure; 'h323_alg_release_port_failure': H323 ALG Release NAT Port Failure; 'h323_alg_single_rtp_fullcone': H323 ALG Single RTP Full-cone Found; 'h323_alg_single_rtcp_fullcone': H323 ALG Single RTCP Full-cone Found; 'h323_alg_rtcp_fullcone_mismatch': H323 ALG RTCP Full-cone NAT Port Mismatch; 'h323_alg_reuse_rtp_rtcp_fullcone': H323 ALG Reuse RTP/RTCP Full-cone Session; 'h323_alg_alloc_rtp_rtcp_port_failure': H323 ALG Alloc RTP/RTCP NAT Ports Failure; 'h323_alg_alloc_single_port_failure': H323 ALG Alloc Single RTP or RTCP NAT Port Failure; 'h323_alg_create_single_fullcone_failure': H323 ALG Create Single RTP or RTCP Full-cone Session Failure;

'h323_alg_create_rtp_fullcone_failure': H323 ALG Create RTP Full-cone Session Failure; 'h323_alg_create_rtcp_fullcone_failure': H323 ALG Create RTCP Full-cone Session Failure; 'h323_alg_port_pair_alloc_from_consecutive': H323 ALG Port Pair Allocated From Consecutive; 'h323_alg_port_pair_alloc_from_partition': H323 ALG Port Pair Allocated From Partition; 'h323_alg_port_pair_alloc_from_pool_port_batch': H323 ALG Port Pair Allocated From Pool Port Batch; 'h323_alg_port_pair_alloc_from_quota_consecutive': H323 ALG Port Pair Allocated From Quota Consecutive; 'h323_alg_port_pair_alloc_from_quota_partition': H323 ALG Port Pair Allocated From Quota Partition; 'h323_alg_port_pair_alloc_from_quota_partition_error': H323 ALG Port Pair Allocated From Quota Partition Error; 'h323_alg_port_pair_alloc_from_quota_pool_port_batch': H323 ALG Port Pair Allocated From Quota Pool Port Batch; 'port_batch_quota_extension_alloc_failure': Port Batch Extension Alloc Failure (No memory); 'port_batch_free_quota_not_found': Port Batch Quota Not Found on Free; 'port_batch_free_port_not_found': Port Batch Port Not Found on Free; 'port_batch_free_wrong_partition': Port Batch Free Wrong Partition; 'radius_query_quota_ext_alloc_failure': RADIUS Query Container Alloc (No Memoty); 'radius_query_quota_ext_alloc_race_free': RADIUS Query Container Alloc Race Free; 'quota_extension_added': Quota Extension Added to Quota; 'quota_extension_removed': Quota Extension Removed from Quota; 'quota_extension_remove_not_found': Quota Extension Not Found on Remove; 'ha_sync_port_batch_sent': HA Port Batch Extension Sync Sent; 'ha_sync_port_batch_rcv': HA Port Batch Extension Sync Received; 'ha_send_port_batch_not_found': HA Port Batch Not Found on Sync Send; 'ha_rcv_port_not_in_port_batch': HA Port Not in Port Batch on Sync Rcv; 'bad_port_to_free': Freeing Bad Port; 'consecutive_port_free': Port Freed from Consecutive Pool; 'partition_port_free': Port Freed from Partition; 'pool_port_batch_port_free': Port Freed from Pool Port Batch; 'port_allocated_from_quota_consecutive': Port Allocated from Quota Consecutive; 'port_allocated_from_quota_partition': Port Allocated from Quota Partition; 'port_allocated_from_quota_pool_port_batch': Port Allocated from Quota Pool Port Batch; 'port_freed_from_quota_consecutive': Port Freed from Quota Consecutive; 'port_freed_from_quota_partition': Port Freed from Quota Partition; 'port_freed_from_quota_pool_port_batch': Port Freed from Quota Pool Port Batch; 'port_batch_allocated_to_quota': Port Batch Allocated to Quota; 'port_batch_freed_from_quota': Port Batch Freed From Quota; 'specific_port_allocated_from_quota_consecutive': Specific Port Allocated from Quota Consecutive; 'specific_port_allocated_from_quota_partition': Specific Port Allocated from Quota Partition; 'specific_port_allocated_from_quota_pool_port_batch': Specific Port Allocated from Quota Pool Port Batch; 'port_batch_container_alloc_failure': Port Batch Container Alloc Out of Memory; 'port_batch_container_alloc_race_free': Port Batch Container Race Free; 'port_overloading_destination_conflict': Port Overloading Destination Conflict; 'port_overloading_out_of_memory': Port Overloading Out of Memory; 'port_overloading_assign_user': Port Overloading Port Assign User; 'port_overloading_assign_user_port_batch': Port Overloading Port Assign User Port Batch; 'port_overloading_inc': Port Overloading Port Increment; 'port_overloading_dec_on_conflict': Port Overloading Port Decrement on Conflict; 'port_overloading_dec_on_free': Port Overloading Port Decrement on Free; 'port_overloading_free_port_on_conflict': Port Overloading Free Port on Conflict; 'port_overloading_free_port_batch_on_conflict': Port Overloading Free Port Batch on Conflict; 'port_overloading_inc_overflow': Port Overloading Inc Overflow; 'port_overloading_attempt_consecutive_ports': Port Overloading on Consecutive Ports; 'port_overloading_attempt_same_partition': Port Overloading on Same Partition; 'port_overloading_attempt_diff_partition': Port Overloading on Different Partition; 'port_overloading_attempt_failed': Port Overloading Attempt Failed; 'port_overloading_conn_free_retry_lookup': Port Overloading Conn Free Retry Lookup; 'port_overloading_conn_free_not_found': Port Overloading Conn Free

Not Found; 'port_overloading_smp_mem_allocated': Port Overloading SMP Session Allocated; 'port_overloading_smp_mem_freed': Port Overloading SMP Session Freed; 'port_overloading_smp_inserted': Port Overloading SMP Inserted; 'port_overloading_smp_inserted_tcp_shadow': Total Port Overloading SMP TCP Inserted; 'port_overloading_smp_inserted_udp_shadow': Total Port Overloading SMP UDP Inserted; 'port_overloading_smp_free_tcp_shadow': Total Port Overloading SMP TCP Freed; 'port_overloading_smp_free_udp_shadow': Total Port Overloading SMP UDP Freed; 'port_overloading_smp_put_in_del_q_from_conn': Port Overloading SMP Free From Conn; 'port_overloading_smp_free_dec_failure': Port Overloading SMP Free Dec Failure; 'port_overloading_smp_free_no_quota': Port Overloading SMP Free No Quota; 'port_overloading_smp_free_port': Port Overloading SMP Free Port; 'port_overloading_smp_free_port_from_quota': Port Overloading SMP Free Port From Quota; 'port_overloading_for_no_ports': Port Overloading for No Ports; 'port_overloading_for_no_ports_success': Port Overloading for No Ports Success; 'port_overloading_for_quota_exceeded': Port Overloading for Quota Exceeded; 'port_overloading_for_quota_exceeded_success': Port Overloading for Quota Exceeded Success; 'port_overloading_for_quota_exceeded_race': Port Overloading for Quota Exceeded Race; 'port_overloading_for_quota_exceeded_race_success': Port Overloading for Quota Exceeded Race Success; 'port_overloading_for_new_user': Port Overloading for New User; 'port_overloading_for_new_user_success': Port Overloading for New User Success; 'ha_port_overloading_attempt_failed': HA Port Overloading Attempt Failed; 'ha_port_overloading_for_no_ports': HA Port Overloading for No Ports; 'ha_port_overloading_for_no_ports_success': HA Port Overloading for No Ports Success; 'ha_port_overloading_for_quota_exceeded': HA Port Overloading for Quota Exceeded; 'ha_port_overloading_for_quota_exceeded_success': HA Port Overloading for Quota Exceeded Success; 'ha_port_overloading_for_quota_exceeded_race': HA Port Overloading for Quota Exceeded Race; 'ha_port_overloading_for_quota_exceeded_race_success': HA Port Overloading for Quota Exceeded Race Success; 'ha_port_overloading_for_new_user': HA Port Overloading for New User; 'ha_port_overloading_for_new_user_success': HA Port Overloading for New User Success;

Type: string

Supported Values: h323_alg_no_quota, h323_alg_quota_inc_failure, h323_alg_no_nat_ip, h323_alg_reuse_fullcone, h323_alg_fullcone_mismatch, h323_alg_alloc_port_failure, h323_alg_create_fullcone_failure, h323_alg_release_port_failure, h323_alg_single_rtp_fullcone, h323_alg_single_rtcp_fullcone, h323_alg_rtcp_fullcone_mismatch, h323_alg_reuse_rtp_rtcp_fullcone, h323_alg_alloc_rtp_rtcp_port_failure, h323_alg_alloc_single_port_failure, h323_alg_create_single_fullcone_failure, h323_alg_create_rtp_fullcone_failure, h323_alg_create_rtcp_fullcone_failure, h323_alg_port_pair_alloc_from_consecutive, h323_alg_port_pair_alloc_from_partition, h323_alg_port_pair_alloc_from_pool_port_batch, h323_alg_port_pair_alloc_from_quota_consecutive, h323_alg_port_pair_alloc_from_quota_partition, h323_alg_port_pair_alloc_from_quota_partition_error, h323_alg_port_pair_alloc_from_quota_pool_port_batch, port_batch_quota_extension_alloc_failure, port_batch_free_quota_not_found, port_batch_free_port_not_found, port_batch_free_wrong_partition, radius_query_quota_ext_alloc_failure, radius_query_quota_ext_alloc_race_free, quota_extension_added, quota_extension_removed, quota_extension_remove_not_found, ha_sync_port_batch_sent, ha_sync_port_batch_rcv, ha_send_port_batch_not_found, ha_rcv_port_not_in_port_batch, bad_port_to_free, consecutive_port_free, partition_port_free, pool_port_batch_port_free, port_allocated_from_quota_consecutive, port_allocated_from_quota_partition, port_allocated_from_quota_pool_port_batch, port_freed_from_quota_consecutive, port_freed_from_quota_partition, port_freed_from_quota_pool_port_batch, port_batch_allocated_to_quota, port_batch_freed_from_quota, spe-

cific_port_allocated_from_quota_consecutive, specific_port_allocated_from_quota_partition, specific_port_allocated_from_quota_pool_port_batch, port_batch_container_alloc_failure, port_batch_container_alloc_race_free, port_overloading_destination_conflict, port_overloading_out_of_memory, port_overloading_assign_user, port_overloading_assign_user_port_batch, port_overloading_inc, port_overloading_dec_on_conflict, port_overloading_dec_on_free, port_overloading_free_port_on_conflict, port_overloading_free_port_batch_on_conflict, port_overloading_inc_overflow, port_overloading_attempt_consecutive_ports, port_overloading_attempt_same_partition, port_overloading_attempt_diff_partition, port_overloading_attempt_failed, port_overloading_conn_free_retry_lookup, port_overloading_conn_free_not_found, port_overloading_smp_mem_allocated, port_overloading_smp_mem_freed, port_overloading_smp_inserted, port_overloading_smp_inserted_tcp_shadow, port_overloading_smp_inserted_udp_shadow, port_overloading_smp_free_tcp_shadow, port_overloading_smp_free_udp_shadow, port_overloading_smp_put_in_del_q_from_conn, port_overloading_smp_free_dec_failure, port_overloading_smp_free_no_quota, port_overloading_smp_free_port, port_overloading_smp_free_port_from_quota, port_overloading_for_no_ports, port_overloading_for_no_ports_success, port_overloading_for_quota_exceeded, port_overloading_for_quota_exceeded_success, port_overloading_for_quota_exceeded_race, port_overloading_for_quota_exceeded_race_success, port_overloading_for_new_user, port_overloading_for_new_user_success, ha_port_overloading_attempt_failed, ha_port_overloading_for_no_ports, ha_port_overloading_for_no_ports_success, ha_port_overloading_for_quota_exceeded, ha_port_overloading_for_quota_exceeded_success, ha_port_overloading_for_quota_exceeded_race, ha_port_overloading_for_quota_exceeded_race_success, ha_port_overloading_for_new_user, ha_port_overloading_for_new_user_success

counters3

Description 'nat_pool_force_delete': NAT Pool Force Delete; 'quota_ext_too_many': Quota Ext Too Many; 'nat_pool_not_found_on_free': NAT Pool Not Found on Free; 'standby_class_list_drop': Standby Class-List Drop; 'fullcone_inbound_nat_pool_mismatch': Full-cone Session NAT Pool Mismatch; 'bad_ip_tot_len': Bad IPv4 Total Length; 'ip_checksum_verified': IP Checksum Verified; 'ip_checksum_fixed': IP Checksum Fixed; 'ip_checksum_bad_drop': IP Checksum Bad Drop; 'ip_frag_checksum_fixed': IP Frag Checksum Fixed; 'l4_checksum_verified': L4 Checksum Verified; 'l4_checksum_fixed': L4 Checksum Fixed; 'l4_checksum_bad_drop': L4 Checksum Bad Drop; 'jumbo_list_bad_l4_len': Jumbo List Bad L4 Len; 'frag_list_bad_l4_len': Frag List Bad L4 Len; 'nat_pool_attempt_adding_multiple_free_batches': Attempt Adding Multiple Free Batches to Quota; 'nat_pool_add_free_batch_failed': Add Batch to Quota Failed; 'mgcp_alg_no_quota': MGCP ALG User-Quota Not Found; 'mgcp_alg_quota_inc_failure': MGCP ALG User-Quota Exceeded; 'mgcp_alg_no_nat_ip': MGCP ALG Unknown NAT IP; 'mgcp_alg_reuse_fullcone': MGCP ALG Reuse Full-cone Session; 'mgcp_alg_fullcone_mismatch': MGCP ALG Full-cone Session Mismatch; 'mgcp_alg_alloc_port_failure': MGCP ALG Alloc NAT Port Failure; 'mgcp_alg_create_fullcone_failure': MGCP ALG Create Full-cone Session Failure; 'mgcp_alg_release_port_failure': MGCP ALG Release NAT Port Failure; 'mgcp_alg_single_rtp_fullcone': MGCP ALG Single RTP Full-cone Found; 'mgcp_alg_single_rtcp_fullcone': MGCP ALG Single RTCP Full-cone Found; 'mgcp_alg_rtcp_fullcone_mismatch': MGCP ALG RTCP Full-cone NAT Port Mismatch; 'mgcp_alg_reuse_rtp_rtcp_fullcone': MGCP ALG Reuse RTP/RTCP Full-cone Session; 'mgcp_alg_alloc_rtp_rtcp_port_failure': MGCP ALG Alloc RTP/RTCP NAT Ports Failure; 'mgcp_alg_alloc_single_port_failure': MGCP ALG Alloc Single RTP or RTCP NAT Port Failure; 'mgcp_alg_create_single_fullcone_failure': MGCP ALG Create Single RTP or RTCP Full-cone Session Failure; 'mgcp_alg_create_rtp_fullcone_failure': MGCP ALG Create RTP Full-cone Session Failure;

'mgcp_alg_create_rtcp_fullcone_failure': MGCP ALG Create RTCP Full-cone Session Failure; 'mgcp_alg_port_pair_alloc_from_consecutive': MGCP ALG Port Pair Allocated From Consecutive; 'mgcp_alg_port_pair_alloc_from_partition': MGCP ALG Port Pair Allocated From Partition; 'mgcp_alg_port_pair_alloc_from_pool_port_batch': MGCP ALG Port Pair Allocated From Pool Port Batch; 'mgcp_alg_port_pair_alloc_from_quota_consecutive': MGCP ALG Port Pair Allocated From Quota Consecutive; 'mgcp_alg_port_pair_alloc_from_quota_partition': MGCP ALG Port Pair Allocated From Quota Partition; 'mgcp_alg_port_pair_alloc_from_quota_partition_error': MGCP ALG Port Pair Allocated From Quota Partition Error; 'mgcp_alg_port_pair_alloc_from_quota_pool_port_batch': MGCP ALG Port Pair Allocated From Quota Pool Port Batch; 'user_quota_unusable_drop': User-Quota Unusable Drop; 'user_quota_unusable': User-Quota Marked Unusable; 'nat_pool_same_port_batch_udp_failed': Simultaneous Batch Allocation UDP Port Allocation Failed; 'fwd_ingress_packets_tcp': Forward Ingress Packets TCP; 'fwd_egress_packets_tcp': Forward Egress Packets TCP; 'rev_ingress_packets_tcp': Reverse Ingress Packets TCP; 'rev_egress_packets_tcp': Reverse Egress Packets TCP; 'fwd_ingress_bytes_tcp': Forward Ingress Bytes TCP; 'fwd_egress_bytes_tcp': Forward Egress Bytes TCP; 'rev_ingress_bytes_tcp': Reverse Ingress Bytes TCP; 'rev_egress_bytes_tcp': Reverse Egress Bytes TCP; 'fwd_ingress_packets_udp': Forward Ingress Packets UDP; 'fwd_egress_packets_udp': Forward Egress Packets UDP; 'rev_ingress_packets_udp': Reverse Ingress Packets UDP; 'rev_egress_packets_udp': Reverse Egress Packets UDP; 'fwd_ingress_bytes_udp': Forward Ingress Bytes UDP; 'fwd_egress_bytes_udp': Forward Egress Bytes UDP; 'rev_ingress_bytes_udp': Reverse Ingress Bytes UDP; 'rev_egress_bytes_udp': Reverse Egress Bytes UDP; 'fwd_ingress_packets_icmp': Forward Ingress Packets ICMP; 'fwd_egress_packets_icmp': Forward Egress Packets ICMP; 'rev_ingress_packets_icmp': Reverse Ingress Packets ICMP; 'rev_egress_packets_icmp': Reverse Egress Packets ICMP; 'fwd_ingress_bytes_icmp': Forward Ingress Bytes ICMP; 'fwd_egress_bytes_icmp': Forward Egress Bytes ICMP; 'rev_ingress_bytes_icmp': Reverse Ingress Bytes ICMP; 'rev_egress_bytes_icmp': Reverse Egress Bytes ICMP; 'fwd_ingress_packets_others': Forward Ingress Packets OTHERS; 'fwd_egress_packets_others': Forward Egress Packets OTHERS; 'rev_ingress_packets_others': Reverse Ingress Packets OTHERS; 'rev_egress_packets_others': Reverse Egress Packets OTHERS; 'fwd_ingress_bytes_others': Forward Ingress Bytes OTHERS; 'fwd_egress_bytes_others': Forward Egress Bytes OTHERS; 'rev_ingress_bytes_others': Reverse Ingress Bytes OTHERS; 'rev_egress_bytes_others': Reverse Egress Bytes OTHERS; 'fwd_ingress_pkt_size_range1': Forward Ingress Packet size between 0 and 200; 'fwd_ingress_pkt_size_range2': Forward Ingress Packet size between 201 and 800; 'fwd_ingress_pkt_size_range3': Forward Ingress Packet size between 801 and 1550; 'fwd_ingress_pkt_size_range4': Forward Ingress Packet size between 1551 and 9000; 'fwd_egress_pkt_size_range1': Forward Egress Packet size between 0 and 200; 'fwd_egress_pkt_size_range2': Forward Egress Packet size between 201 and 800; 'fwd_egress_pkt_size_range3': Forward Egress Packet size between 801 and 1550; 'fwd_egress_pkt_size_range4': Forward Egress Packet size between 1551 and 9000; 'rev_ingress_pkt_size_range1': Reverse Ingress Packet size between 0 and 200; 'rev_ingress_pkt_size_range2': Reverse Ingress Packet size between 201 and 800; 'rev_ingress_pkt_size_range3': Reverse Ingress Packet size between 801 and 1550; 'rev_ingress_pkt_size_range4': Reverse Ingress Packet size between 1551 and 9000; 'rev_egress_pkt_size_range1': Reverse Egress Packet size between 0 and 200; 'rev_egress_pkt_size_range2': Reverse Egress Packet size between 201 and 800; 'rev_egress_pkt_size_range3': Reverse Egress Packet size between 801 and 1550; 'rev_egress_pkt_size_range4': Reverse Egress Packet size between 1551 and 9000; 'prefix_quota_mismatch': Prefix Quota NAT IP Mismatch;

Type: string

Supported Values: nat_pool_force_delete, quota_ext_too_many, nat_pool_not_found_on_free, standby_class_list_drop, full-cone_inbound_nat_pool_mismatch, bad_ip_tot_len, ip_checksum_verified, ip_checksum_fixed, ip_checksum_bad_drop, ip_frag_checksum_fixed, l4_checksum_verified, l4_checksum_fixed, l4_checksum_bad_drop, jumbo_list_bad_l4_len, frag_list_bad_l4_len, nat_pool_attempt_adding_multiple_free_batches, nat_pool_add_free_batch_failed, mgcp_alg_no_quota, mgcp_alg_quota_inc_failure, mgcp_alg_no_nat_ip, mgcp_alg_reuse_fullcone, mgcp_alg_fullcone_mismatch, mgcp_alg_alloc_port_failure, mgcp_alg_create_fullcone_failure, mgcp_alg_release_port_failure, mgcp_alg_single_rtp_fullcone, mgcp_alg_single_rtcp_fullcone, mgcp_alg_rtcp_fullcone_mismatch, mgcp_alg_reuse_rtp_rtcp_fullcone, mgcp_alg_alloc_rtp_rtcp_port_failure, mgcp_alg_alloc_single_port_failure, mgcp_alg_create_single_fullcone_failure, mgcp_alg_create_rtp_fullcone_failure, mgcp_alg_create_rtcp_fullcone_failure, mgcp_alg_port_pair_alloc_from_consecutive, mgcp_alg_port_pair_alloc_from_partition, mgcp_alg_port_pair_alloc_from_pool_port_batch, mgcp_alg_port_pair_alloc_from_quota_consecutive, mgcp_alg_port_pair_alloc_from_quota_partition, mgcp_alg_port_pair_alloc_from_quota_partition_error, mgcp_alg_port_pair_alloc_from_quota_pool_port_batch, user_quota_unusable_drop, user_quota_unusable, nat_pool_same_port_batch_udp_failed, fwd_ingress_packets_tcp, fwd_egress_packets_tcp, rev_ingress_packets_tcp, rev_egress_packets_tcp, fwd_ingress_bytes_tcp, fwd_egress_bytes_tcp, rev_ingress_bytes_tcp, rev_egress_bytes_tcp, fwd_ingress_packets_udp, fwd_egress_packets_udp, rev_ingress_packets_udp, rev_egress_packets_udp, fwd_ingress_bytes_udp, fwd_egress_bytes_udp, rev_ingress_bytes_udp, rev_egress_bytes_udp, fwd_ingress_packets_icmp, fwd_egress_packets_icmp, rev_ingress_packets_icmp, rev_egress_packets_icmp, fwd_ingress_bytes_icmp, fwd_egress_bytes_icmp, rev_ingress_bytes_icmp, rev_egress_bytes_icmp, fwd_ingress_packets_others, fwd_egress_packets_others, rev_ingress_packets_others, rev_egress_packets_others, fwd_ingress_bytes_others, fwd_egress_bytes_others, rev_ingress_bytes_others, rev_egress_bytes_others, fwd_ingress_pkt_size_range1, fwd_ingress_pkt_size_range2, fwd_ingress_pkt_size_range3, fwd_ingress_pkt_size_range4, fwd_egress_pkt_size_range1, fwd_egress_pkt_size_range2, fwd_egress_pkt_size_range3, fwd_egress_pkt_size_range4, rev_ingress_pkt_size_range1, rev_ingress_pkt_size_range2, rev_ingress_pkt_size_range3, rev_ingress_pkt_size_range4, rev_egress_pkt_size_range1, rev_egress_pkt_size_range2, rev_egress_pkt_size_range3, rev_egress_pkt_size_range4, prefix_quota_mismatch, port_overloading_port_tcp_inserted, port_overloading_port_udp_inserted, port_overloading_port_free_tcp, port_overloading_port_free_udp

global_icmp

Specification	Value
Type	*object*

send-on-port-unavailable

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered; 'disable': Disable ICMP port unavailable message (default);

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: disable

send-on-user-quota-exceeded

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered (default); 'disable': Disable ICMP quota exceeded message;

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: admin-filtered

port-reservation-list

Specification	Value
Type	*list*
Block object keys	

inside

Description Inside User Address and Port Range (DS-Lite Inside User's Tunnel Source IPv6 Address)

Type: string

Format: ipv6-address

inside-addr

Description Inside User IP address

Type: string

Format: ipv4-address

inside-end-port

Description Inside End Port

Type: number

Range: 1-65535

inside-start-port

Description Inside Start Port

Type: number

Range: 1-65535

nat

Description NAT Port Range (NAT IP address)

Type: string

Format: ipv4-address

nat-end-port

Description NAT End Port

Type: number

Range: 1-65535

nat-start-port

Description NAT Start Port

Type: number

Range: 1-65535

tunnel-dest-address

Description DS-Lite Inside User's Tunnel Destination IPv6 Address

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

user-quota-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-reservation-entries

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.18 cgnv6 ds-lite alg

DS-Lite ALG Parameters

alg Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	alg
Element URI	/axapi/v3/cgnv6/ds-lite/alg
Element Attributes	alg_attributes
Partition Visibility	shared
Schema	`alg schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/ds-lite/alg

alg_attributes

alg attributes

ftp

Description: ftp is a **JSON Block**. Please see below for *ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/ftp*

h323

Description: h323 is a **JSON Block**. Please see below for *h323*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/h323*

mgcp

Description: mgcp is a **JSON Block**. Please see below for *mgcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/mgcp*

pptp

Description: pptp is a **JSON Block**. Please see below for *pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/pptp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/alg/tftp*

ftp

Specification	Value
Type	*object*

ftp-enable

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sip

Specification	Value
Type	*object*

sip-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pptp

Specification	Value
Type	*object*

pptp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rtsp

Specification	Value
Type	*object*

rtsp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

h323

Specification	Value
Type	*object*

h323-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tftp

Specification	Value
Type	*object*

tftp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mgcp

Specification	Value
Type	*object*

mgcp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.19 cgnv6 ds-lite alg ftp

DS-Lite FTP ALG (default: enabled)

ftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ftp
Element URI	/axapi/v3/cgnv6/ds-lite/alg/ftp
Element Attributes	ftp_attributes
Partition Visibility	shared
Schema	`ftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/alg/ftp

ftp attributes

```
POST /axapi/v3/cgnv6/ds-lite/alg/ftp
Payload:
{
    "ftp": {
        "ftp-enable": "disable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/ds-lite/alg/ftp

ftp attributes

```
GET /axapi/v3/cgnv6/ds-lite/alg/ftp
Reponse:
{
    "ftp": {
```

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```
        "ftp-enable": "disable",
        "uuid": "98955536-0897-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/ds-lite/alg/ftp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/alg/ftp

ftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/alg/ftp

ftp attributes

```
PUT /axapi/v3/cgnv6/ds-lite/alg/ftp
Payload:
{
    "ftp": {
        "ftp-enable": "disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/alg/ftp

ftp attributes

```
DELETE /axapi/v3/cgnv6/ds-lite/alg/ftp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ftp attributes

ftp-enable

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.20 cgnv6 ds-lite alg h323

DS-Lite H323 ALG (default: disabled)

h323 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	h323
Element URI	/axapi/v3/cgnv6/ds-lite/alg/h323
Element Attributes	h323_attributes
Partition Visibility	shared
Schema	`h323 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/alg/h323

h323 attributes

```
POST /axapi/v3/cgnv6/ds-lite/alg/h323
Payload:
{
    "h323": {
        "h323-enable": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/ds-lite/alg/h323

h323 attributes

```
GET /axapi/v3/cgnv6/ds-lite/alg/h323
Reponse:
{
    "h323": {
        "h323-enable": "enable",
        "uuid": "afe3551c-0897-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/ds-lite/alg/h323"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/alg/h323

h323 attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/alg/h323

h323 attributes

```
PUT /axapi/v3/cgnv6/ds-lite/alg/h323
Payload:
{
    "h323": {
        "h323-enable": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/alg/h323

h323 attributes

```
DELETE /axapi/v3/cgnv6/ds-lite/alg/h323
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

h323 attributes

h323-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.21 cgnv6 ds-lite alg mgcp

DS-Lite MGCP ALG (default: disabled)

mgcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	mgcp
Element URI	/axapi/v3/cgnv6/ds-lite/alg/mgcp
Element Attributes	mgcp_attributes
Partition Visibility	shared
Schema	`mgcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/alg/mgcp

mgcp attributes

```
POST /axapi/v3/cgnv6/ds-lite/alg/mgcp
Payload:
{
    "mgcp": {
        "mgcp-enable": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/ds-lite/alg/mgcp

mgcp attributes

```
GET /axapi/v3/cgnv6/ds-lite/alg/mgcp
Reponse:
{
    "mgcp": {
        "mgcp-enable": "enable",
        "uuid": "c9c314f4-0897-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/ds-lite/alg/mgcp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/alg/mgcp

mgcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/alg/mgcp

mgcp attributes

```
PUT /axapi/v3/cgnv6/ds-lite/alg/mgcp
Payload:
{
    "mgcp": {
        "mgcp-enable": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/alg/mgcp

mgcp attributes

```
DELETE /axapi/v3/cgnv6/ds-lite/alg/mgcp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

mgcp attributes

mgcp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.22 cgnv6 ds-lite alg pptp

DS-Lite PPTP ALG (default: disabled)

pptp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pptp
Element URI	/axapi/v3/cgnv6/ds-lite/alg/pptp
Element Attributes	pptp_attributes
Partition Visibility	shared
Schema	`pptp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/alg/pptp

pptp attributes

```
POST /axapi/v3/cgnv6/ds-lite/alg/pptp
Payload:
{
    "pptp": {
        "pptp-enable": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/ds-lite/alg/pptp

pptp attributes

```
GET /axapi/v3/cgnv6/ds-lite/alg/pptp
Reponse:
{
    "pptp": {
        "pptp-enable": "enable",
        "uuid": "e54caf14-0897-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/ds-lite/alg/pptp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/alg/pptp

pptp attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/alg/pptp

pptp attributes

```
PUT /axapi/v3/cgnv6/ds-lite/alg/pptp
Payload:
{
    "pptp": {
        "pptp-enable": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/alg/pptp

pptp attributes

```
DELETE /axapi/v3/cgnv6/ds-lite/alg/pptp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

pptp attributes

pptp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.23 cgnv6 ds-lite alg rtsp

DS-Lite RTSP ALG (default: disabled)

rtsp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rtsp
Element URI	/axapi/v3/cgnv6/ds-lite/alg/rtsp
Element Attributes	rtsp_attributes
Partition Visibility	shared
Schema	`rtsp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/alg/rtsp

rtsp attributes

```
POST /axapi/v3/cgnv6/ds-lite/alg/rtsp
Payload:
{
    "rtsp": {
        "rtsp-enable": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/ds-lite/alg/rtsp

rtsp attributes

```
GET /axapi/v3/cgnv6/ds-lite/alg/rtsp
Reponse:
{
    "rtsp": {
        "rtsp-enable": "enable",
        "uuid": "fbfeb298-0897-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/ds-lite/alg/rtsp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/alg/rtsp

rtsp attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/alg/rtsp

rtsp attributes

```
PUT /axapi/v3/cgnv6/ds-lite/alg/rtsp
Payload:
{
    "rtsp": {
        "rtsp-enable": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/alg/rtsp

rtsp attributes

```
DELETE /axapi/v3/cgnv6/ds-lite/alg/rtsp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

rtsp attributes

rtsp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.24 cgnv6 ds-lite alg sip

DS-Lite SIP ALG (default: disabled)

sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sip
Element URI	/axapi/v3/cgnv6/ds-lite/alg/sip
Element Attributes	sip_attributes
Partition Visibility	shared
Schema	`sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/alg/sip

sip attributes

```
POST /axapi/v3/cgnv6/ds-lite/alg/sip
Payload:
{
    "sip": {
        "sip-enable": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/ds-lite/alg/sip

sip attributes

```
GET /axapi/v3/cgnv6/ds-lite/alg/sip
Reponse:
{
    "sip": {
        "sip-enable": "enable",
        "uuid": "12b09ca4-0898-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/ds-lite/alg/sip"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/alg/sip

sip attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/alg/sip

sip attributes

```
PUT /axapi/v3/cgnv6/ds-lite/alg/sip
Payload:
{
    "sip": {
        "sip-enable": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/alg/sip

sip attributes

```
DELETE /axapi/v3/cgnv6/ds-lite/alg/sip
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

sip attributes

sip-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.25 cgnv6 ds-lite alg tftp

DS-Lite TFTP ALG (default: disabled)

tftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tftp
Element URI	/axapi/v3/cgnv6/ds-lite/alg/tftp
Element Attributes	tftp_attributes
Partition Visibility	shared
Schema	`tftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/alg/tftp

tftp attributes

```
POST /axapi/v3/cgnv6/ds-lite/alg/tftp
Payload:
{
    "tftp": {
        "tftp-enable": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/ds-lite/alg/tftp

tftp attributes

```
GET /axapi/v3/cgnv6/ds-lite/alg/tftp
Reponse:
{
    "tftp": {
        "tftp-enable": "enable",
        "uuid": "29807cf6-0898-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/ds-lite/alg/tftp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/alg/tftp

tftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/alg/tftp

tftp attributes

```
PUT /axapi/v3/cgnv6/ds-lite/alg/tftp
Payload:
{
    "tftp": {
        "tftp-enable": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/alg/tftp

tftp attributes

```
DELETE /axapi/v3/cgnv6/ds-lite/alg/tftp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

tftp attributes

tftp-enable

Description 'enable': Enable ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.26 cgnv6 ds-lite fragmentation

DS-Lite fragmentation parameters

fragmentation Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	fragmentation
Element URI	/axapi/v3/cgnv6/ds-lite/fragmentation
Element Attributes	fragmentation_attributes
Partition Visibility	shared
Schema	`fragmentation schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/ds-lite/fragmentation

fragmentation_attributes

fragmentation attributes

inbound

Description: inbound is a **JSON Block**. Please see below for *inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/ds-lite/fragmentation/outbound*

inbound

Specification	Value
Type	*object*

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 Fragmentation; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv4, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound

Specification	Value
Type	*object*

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 Fragmentation; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmp, send-icmpv6

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMPv6 Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.27 cgnv6 ds-lite fragmentation inbound

DS-Lite fragmentation rules for inbound oversize packets (default: ipv6)

inbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	inbound
Element URI	/axapi/v3/cgnv6/ds-lite/fragmentation/inbound
Element Attributes	inbound_attributes
Partition Visibility	shared
Schema	`inbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/fragmentation/inbound

inbound attributes

```
POST /axapi/v3/cgnv6/ds-lite/fragmentation/inbound
Payload:
{
    "inbound": {
        "df-set": "send-icmp",
        "count": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/ds-lite/fragmentation/inbound

inbound attributes

```
GET /axapi/v3/cgnv6/ds-lite/fragmentation/inbound
Reponse:
{
    "inbound": {
        "df-set": "send-icmp",
        "count": 1,
        "frag-action": "ipv6",
        "uuid": "c5ed3096-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/ds-lite/fragmentation/inbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/fragmentation/inbound

inbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/fragmentation/inbound

inbound attributes

```
PUT /axapi/v3/cgnv6/ds-lite/fragmentation/inbound
Payload:
{
    "inbound": {
        "df-set": "send-icmp",
        "count": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/fragmentation/inbound

inbound attributes

```
DELETE /axapi/v3/cgnv6/ds-lite/fragmentation/inbound
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

inbound attributes

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 Fragmentation; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv4, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.28 cgnv6 ds-lite fragmentation outbound

DS-Lite Outbound Fragmentation Rules (default: ipv4)

outbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	outbound
Element URI	/axapi/v3/cgnv6/ds-lite/fragmentation/outbound
Element Attributes	outbound_attributes
Partition Visibility	shared
Schema	`outbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/fragmentation/outbound

outbound attributes

```
POST /axapi/v3/cgnv6/ds-lite/fragmentation/outbound
Payload:
{
    "outbound": {
        "df-set": "send-icmp",
        "count": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/ds-lite/fragmentation/outbound

outbound attributes

```
GET /axapi/v3/cgnv6/ds-lite/fragmentation/outbound
Reponse:
{
    "outbound": {
        "df-set": "send-icmp",
        "count": 1,
        "frag-action": "ipv4",
        "uuid": "c5ed3140-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/ds-lite/fragmentation/outbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/fragmentation/outbound

outbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/fragmentation/outbound

outbound attributes

```
PUT /axapi/v3/cgnv6/ds-lite/fragmentation/outbound
Payload:
{
    "outbound": {
        "df-set": "send-icmpv6",
        "count": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/fragmentation/outbound

outbound attributes

```
DELETE /axapi/v3/cgnv6/ds-lite/fragmentation/outbound
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

outbound attributes

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 Fragmentation; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmp, send-icmpv6

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMPv6 Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.29 cgnv6 ds-lite full-cone-session

Full Cone Sessions

full-cone-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	full-cone-session
Element URI	/axapi/v3/cgnv6/ds-lite/full-cone-session
Element Attributes	full-cone-session_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/ds-lite/full-cone-session/oper
Schema	`full-cone-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/full-cone-session

full-cone-session attributes

Get Object

GET

/axapi/v3/cgnv6/ds-lite/full-cone-session

full-cone-session attributes

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/full-cone-session

full-cone-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/full-cone-session

full-cone-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/full-cone-session

full-cone-session attributes

full-cone-session attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.30 cgnv6 ds-lite full-cone-session oper

Operational Status for the object full-cone-session

full-cone-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	full-cone-session
Element URI	/axapi/v3/cgnv6/ds-lite/full-cone-session/oper
Element Attributes	full-cone-session_attributes
Partition Visibility	None
Schema	`full-cone-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/full-cone-session/oper

full-cone-session attributes

Get Object

GET

/axapi/v3/cgnv6/ds-lite/full-cone-session/oper

full-cone-session attributes

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/full-cone-session/oper

full-cone-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/full-cone-session/oper

full-cone-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/full-cone-session/oper

full-cone-session attributes

full-cone-session attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-partitions

Description

Type: boolean

Supported Values: true, false, 1, 0

debug-session

Description

Type: boolean

Supported Values: true, false, 1, 0

graceful

Description

Type: boolean

Supported Values: true, false, 1, 0

inside-addr

Description

Type: string

Format: ipv4-address

inside-addr-end

Description

Type: string

Format: ipv4-address

inside-addr-start

Description

Type: string

Format: ipv4-address

inside-addr-v6

Description

Type: string

Format: ipv6-address

inside-addr-v6-end

Description

Type: string

Format: ipv6-address

inside-addr-v6-start

Description

Type: string

Format: ipv6-address

inside-port

Description

Type: number

nat-addr

Description

Type: string

Format: ipv4-address

nat-addr-end

Description

Type: string

Format: ipv4-address

nat-addr-start

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

nat-port

Description

Type: number

partition-name

Description

Type: string

pcp

Description

Type: boolean

Supported Values: true, false, 1, 0

pool-shared

Description

Type: boolean

Supported Values: true, false, 1, 0

session-count

Description

Type: number

session-list

Type: List

shared-partition

Description

Type: boolean

Supported Values: true, false, 1, 0

total-session-count

Description

Type: number

oper_session-list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: string

cpu

Description

Type: number

flags

Description

Type: string

inbound

Description

Type: number

inside-address

Description

Type: string

Format: ipv4-address

inside-port

Description

Type: number

inside-v6-address

Description

Type: string

Format: ipv6-address

nat-address

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

nat-port

Description

Type: number

outbound

Description

Type: number

protocol

Description

Type: string

2.26.31 cgnv6 ds-lite global

Configure Dual-Stack Lite (DS-Lite) config parameters

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/ds-lite/global
Element Attributes	global_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/ds-lite/global/stats
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/global

global attributes

```
POST /axapi/v3/cgnv6/ds-lite/global
Payload:
{
    "global": {
        "user-quota-prefix-length": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/ds-lite/global

global attributes

```
GET /axapi/v3/cgnv6/ds-lite/global
Reponse:
{
    "global": {
        "user-quota-prefix-length": 1,
        "tcp": {
            "mss-clamp": {
                "mss-clamp-type": "subtract",
                "mss-subtract": 40,
                "min": 416
            }
        },
```

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```
        "ip-checksum-error": "fix",
        "l4-checksum-error": "propagate",
        "icmp": {
            "send-on-port-unavailable": "disable",
            "send-on-user-quota-exceeded": "admin-filtered"
        },
        "uuid": "c5ed2e84-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/ds-lite/global"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/global

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/global

global attributes

```
PUT /axapi/v3/cgnv6/ds-lite/global
Payload:
{
    "global": {
        "user-quota-prefix-length": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/global

global attributes

```
DELETE /axapi/v3/cgnv6/ds-lite/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

global attributes

icmp

Description: icmp is a **JSON Block**. Please see below for *icmp*

Type: Object

inside

Description: inside is a **JSON Block**. Please see below for *inside*

Type: Object

ip-checksum-error

Description 'fix': Fix the bad checksum (default); 'drop': Drop packets with a bad checksum;

Type: string

Supported Values: fix, drop

Default: fix

l4-checksum-error

Description 'propagate': Propagate the bad checksum (default); 'fix': Fix the bad checksum; 'drop': Drop packets with a bad checksum;

Type: string

Supported Values: propagate, fix, drop

Default: propagate

sampling-enable

Type: List

tcp

Description: tcp is a **JSON Block**. Please see below for *tcp*

Type: Object

user-quota-prefix-length

Description User Quota Prefix Length (Default: 128)

Type: number

Range: 1-128

Default: 128

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

inside

Specification	Value
Type	*object*

source

Description: source is a **JSON Block**. Please see below for *inside_source*

Type: Object

inside_source

Specification	Value
Type	*object*

class-list

Description Class-list to match for DS-Lite

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *tcp_mss-clamp*

Type: Object

reset-on-error

Description: reset-on-error is a **JSON Block**. Please see below for *tcp_reset-on-error*

Type: Object

tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: ((576 - 60 - 60 - 40))))

Type: number

Range: 0-1420

Default: 416

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'none': No TCP MSS clamping; 'subtract': Specify the value to subtract from the TCP MSS (default: 40);

Type: string

Supported Values: fixed, none, subtract

Default: subtract

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: 40)

Type: number

Range: 0-1420

Default: 40

mss-value

Description The max value allowed for the TCP MSS (default: not configured)

Type: number

Range: 0-1420

tcp_reset-on-error

Specification	Value
Type	*object*

outbound

Description 'disable': Disable send TCP reset on error;

Type: string

Supported Values: disable

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_tcp_allocated': Total TCP Ports Allocated; 'total_tcp_freed': Total TCP Ports Freed; 'total_udp_allocated': Total UDP Ports Allocated; 'total_udp_freed': Total UDP Ports Freed; 'total_icmp_allocated': Total ICMP Ports Allocated; 'total_icmp_freed': Total ICMP Ports Freed; 'data_session_created': Data Session Created; 'data_session_freed': Data Session Freed; 'user_quota_created': User-Quota Created; 'user_quota_put_in_del_q': User-Quota Freed; 'user_quota_failure': User-Quota Creation Failed; 'nat_port_unavailable_tcp': TCP NAT Port Unavailable; 'nat_port_unavailable_udp': UDP NAT Port Unavailable; 'nat_port_unavailable_icmp': ICMP NAT Port Unavailable; 'new_user_resource_unavailable': New User NAT Resource Unavailable; 'tcp_user_quota_exceeded': TCP User-Quota Exceeded; 'udp_user_quota_exceeded': UDP User-Quota Exceeded; 'icmp_user_quota_exceeded': ICMP User-Quota Exceeded; 'extended_quota_matched': Extended User-Quota Matched; 'extended_quota_exceeded': Extended User-Quota Exceeded; 'data_sesn_user_quota_exceeded': Data Session User-Quota Exceeded; 'data_sesn_rate_user_quota_exceeded': Conn Rate User-Quota Exceeded; 'tcp_fullcone_created': TCP Full-cone Session Created; 'tcp_fullcone_freed': TCP Full-cone Session Freed; 'udp_fullcone_created': UDP Full-cone Session Created; 'udp_fullcone_freed': UDP Full-cone Session Freed; 'fullcone_failure': Full-cone Session Creation Failed; 'hairpin': Hairpin Session Created; 'fullcone_self_hairpinning_drop': Self-Hairpinning Drop; 'endpoint_indep_map_match': Endpoint-Independent Mapping Matched; 'endpoint_indep_filter_match': Endpoint-Independent Filtering Matched; 'inbound_filtered': Endpoint-Dependent Filtering Drop; 'eif_limit_exceeded': Endpoint-Independent Filtering Inbound Limit Exceeded; 'total_tcp_overloaded': TCP Port Overloaded; 'total_udp_overloaded': UDP Port Overloaded; 'port_overloading_smp_inserted_tcp': TCP Port Overloading Session Created; 'port_overloading_smp_inserted_udp': UDP Port Overloading Session Created; 'port_overloading_smp_free_tcp': TCP Port Overloading Session Freed; 'port_overloading_smp_free_udp': UDP Port Overloading Session Freed; 'nat_pool_unusable': NAT Pool Unusable; 'ha_nat_pool_unusable': HA NAT Pool Unusable; 'ha_nat_pool_batch_type_mismatch': HA NAT Pool Batch Type Mismatch; 'no_radius_profile_match': No RADIUS Profile Match; 'truncated_packet': Truncated Packet; 'lid_drop': LSN LID Drop; 'lid_pass_through': LSN LID Pass-through; 'no_class_list_match': No Class-List Match; 'class_list_permit_drop': Permit Class-List Drop; 'user_quota_mem_allocated': User-Quota Memory Allocated; 'user_quota_mem_freed': User-Quota Memory Freed; 'user_quota_created_shadow': Total User-Quota Created; 'quota_marked_deleted': User-Quota Marked Deleted; 'quota_delete_not_in_bucket': User-Quota Delete Not In Bucket; 'user_quota_put_in_del_q_shadow': Total User-Quota Put In Del Q; 'prefix_quota_created': Total Prefix Quota Created; 'prefix_quota_put_in_del_q': Total Prefix Quota Freed; 'prefix_quota_failure': Total Prefix Quota Failure; 'total_user_quota_created': Total Quota Structure Created; 'total_user_quota_put_in_del_q': Total Quota Structure Freed; 'total_user_quota_failure': Total Quota Structure Failure; 'tcp_out_of_state_rst_sent': Total Out of State TCP RST sent; 'tcp_out_of_state_rst_dropped': Total Out of State TCP RST dropped; 'icmp_out_of_state_uqe_admin_filtered_sent': Total User Quota Exceeded ICMP admin filtered sent; 'icmp_out_of_state_uqe_host_unreachable_sent': Total User Quota Exceeded ICMP host unreachable sent; 'icmp_out_of_state_uqe_dropped': Total User Queue Exceeded ICMP notification dropped; 'user_quota_not_found':

User-Quota Not Found; 'tcp_fullcone_created_shadow': Total TCP Full-cone sessions created; 'tcp_fullcone_freed_shadow': Total TCP Full-cone sessions freed; 'udp_fullcone_created_shadow': Total UDP Full-cone sessions created; 'udp_fullcone_freed_shadow': Total UDP Full-cone sessions freed; 'udp_alg_fullcone_created': Total UDP ALG Full-cone sessions created; 'udp_alg_fullcone_freed': Total UDP ALG Full-cone sessions freed; 'fullcone_created': Total Full-cone sessions created; 'fullcone_freed': Total Full-cone sessions freed; 'data_session_created_shadow': Total Data Sessions Created; 'data_session_freed_shadow': Total Data Sessions Freed; 'data_session_user_quota_mismatch': Data Session Counter Per User Mismatch; 'extended_quota_mismatched': Extended User-Quota Mismatched; 'nat_port_unavailable_other': Other NAT Port Unavailable; 'nat_port_unavailable': Total NAT Port Unavailable; 'new_user_resource_unavailable_tcp': TCP New User NAT Resource Unavailable; 'new_user_resource_unavailable_udp': UDP New User NAT Resource Unavailable; 'new_user_resource_unavailable_icmp': ICMP New User NAT Resource Unavailable; 'new_user_resource_unavailable_other': Other New User NAT Resource Unavailable; 'total_tcp_allocated_shadow': Total TCP Ports Allocated; 'total_tcp_freed_shadow': Total TCP Ports Freed; 'total_udp_allocated_shadow': Total UDP Ports Allocated; 'total_udp_freed_shadow': Total UDP Ports Freed; 'total_icmp_allocated_shadow': Total ICMP Ports Allocated; 'total_icmp_freed_shadow': Total ICMP Ports Freed; 'udp_alg_no_quota': UDP ALG User-Quota Not Found; 'udp_alg_eim_mismatch': UDP ALG Endpoint-Independent Mapping Mismatch; 'udp_alg_no_nat_ip': UDP ALG User-Quota Unknown NAT IP; 'udp_alg_alloc_failure': UDP ALG Port Allocation Failure; 'sip_alg_no_quota': SIP ALG User-Quota Not Found; 'sip_alg_quota_inc_failure': SIP ALG User-Quota Exceeded; 'sip_alg_no_nat_ip': SIP ALG Unknown NAT IP; 'sip_alg_reuse_contact_fullcone': SIP ALG Reuse Contact Full-cone Session; 'sip_alg_contact_fullcone_mismatch': SIP ALG Contact Full-cone Session Mismatch; 'sip_alg_alloc_contact_port_failure': SIP ALG Alloc Contact NAT Port Failure; 'sip_alg_create_contact_fullcone_failure': SIP ALG Create Contact Full-cone Session Failure; 'sip_alg_release_contact_port_failure': SIP ALG Release Contact NAT Port Failure; 'sip_alg_single_rtp_fullcone': SIP ALG Single RTP Full-cone Found; 'sip_alg_single_rtcp_fullcone': SIP ALG Single RTCP Full-cone Found; 'sip_alg_rtcp_fullcone_mismatch': SIP ALG RTCP Full-cone NAT Port Mismatch; 'sip_alg_reuse_rtp_rtcp_fullcone': SIP ALG Reuse RTP/RTCP Full-cone Session; 'sip_alg_alloc_rtp_rtcp_port_failure': SIP ALG Alloc RTP/RTCP NAT Ports Failure; 'sip_alg_alloc_single_port_failure': SIP ALG Alloc Single RTP or RTCP NAT Port Failure; 'sip_alg_create_single_fullcone_failure': SIP ALG Create Single RTP or RTCP Full-cone Session Failure; 'sip_alg_create_rtp_fullcone_failure': SIP ALG Create RTP Full-cone Session Failure; 'sip_alg_create_rtcp_fullcone_failure': SIP ALG Create RTCP Full-cone Session Failure; 'sip_alg_port_pair_alloc_from_consecutive': SIP ALG Port Pair Allocated From Consecutive; 'sip_alg_port_pair_alloc_from_partition': SIP ALG Port Pair Allocated From Partition; 'sip_alg_port_pair_alloc_from_pool_port_batch': SIP ALG Port Pair Allocated From Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_consecutive': SIP ALG Port Pair Allocated From Quota Consecutive; 'sip_alg_port_pair_alloc_from_quota_partition': SIP ALG Port Pair Allocated From Quota Partition; 'sip_alg_port_pair_alloc_from_quota_partition_error': SIP ALG Port Pair Allocated From Quota Partition Error; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch': SIP ALG Port Pair Allocated From Quota Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag': SIP ALG Port Pair Allocated From Quota Port Batch Version 2 with Frag Free Ports;

Type: string

Supported Values: all, total_tcp_allocated, total_tcp_freed, total_udp_allocated, total_udp_freed, total_icmp_allocated, total_icmp_freed, data_session_created, data_session_freed, user_quota_created, user_quota_put_in_del_q, user_quota_failure, nat_port_unavailable_tcp, nat_port_unavailable_udp, nat_port_unavailable_icmp, new_user_resource_unavailable, tcp_user_quota_exceeded, udp_user_quota_exceeded,

icmp_user_quota_exceeded, extended_quota_matched, extended_quota_exceeded, data_sesn_user_quota_exceeded, data_sesn_rate_user_quota_exceeded, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_failure, hairpin, fullcone_self_hairpinning_drop, endpoint_indep_map_match, endpoint_indep_filter_match, inbound_filtered, eif_limit_exceeded, total_tcp_overloaded, total_udp_overloaded, port_overloading_smp_inserted_tcp, port_overloading_smp_inserted_udp, port_overloading_smp_free_tcp, port_overloading_smp_free_udp, nat_pool_unusable, ha_nat_pool_unusable, ha_nat_pool_batch_type_mismatch, no_radius_profile_match, truncated_packet, lid_drop, lid_pass_through, no_class_list_match, class_list_permit_drop, user_quota_mem_allocated, user_quota_mem_freed, user_quota_created_shadow, quota_marked_deleted, quota_delete_not_in_bucket, user_quota_put_in_del_q_shadow, prefix_quota_created, prefix_quota_put_in_del_q, prefix_quota_failure, total_user_quota_created, total_user_quota_put_in_del_q, total_user_quota_failure, tcp_out_of_state_rst_sent, tcp_out_of_state_rst_dropped, icmp_out_of_state_uqe_admin_filtered_sent, icmp_out_of_state_uqe_host_unreachable_sent, icmp_out_of_state_uqe_dropped, user_quota_not_found, tcp_fullcone_created_shadow, tcp_fullcone_freed_shadow, udp_fullcone_created_shadow, udp_fullcone_freed_shadow, udp_alg_fullcone_created, udp_alg_fullcone_freed, fullcone_created, fullcone_freed, data_session_created_shadow, data_session_freed_shadow, data_session_user_quota_mismatch, extended_quota_mismatched, nat_port_unavailable_other, nat_port_unavailable, new_user_resource_unavailable_tcp, new_user_resource_unavailable_udp, new_user_resource_unavailable_icmp, new_user_resource_unavailable_other, total_tcp_allocated_shadow, total_tcp_freed_shadow, total_udp_allocated_shadow, total_udp_freed_shadow, total_icmp_allocated_shadow, total_icmp_freed_shadow, udp_alg_no_quota, udp_alg_eim_mismatch, udp_alg_no_nat_ip, udp_alg_alloc_failure, sip_alg_no_quota, sip_alg_quota_inc_failure, sip_alg_no_nat_ip, sip_alg_reuse_contact_fullcone, sip_alg_contact_fullcone_mismatch, sip_alg_alloc_contact_port_failure, sip_alg_create_contact_fullcone_failure, sip_alg_release_contact_port_failure, sip_alg_single_rtp_fullcone, sip_alg_single_rtcp_fullcone, sip_alg_rtcp_fullcone_mismatch, sip_alg_reuse_rtp_rtcp_fullcone, sip_alg_alloc_rtp_rtcp_port_failure, sip_alg_alloc_single_port_failure, sip_alg_create_single_fullcone_failure, sip_alg_create_rtp_fullcone_failure, sip_alg_create_rtcp_fullcone_failure, sip_alg_port_pair_alloc_from_consecutive, sip_alg_port_pair_alloc_from_partition, sip_alg_port_pair_alloc_from_pool_port_batch, sip_alg_port_pair_alloc_from_quota_consecutive, sip_alg_port_pair_alloc_from_quota_partition, sip_alg_port_pair_alloc_from_quota_partition_error, sip_alg_port_pair_alloc_from_quota_pool_port_batch, sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag

counters2

Description 'h323_alg_no_quota': H323 ALG User-Quota Not Found; 'h323_alg_quota_inc_failure': H323 ALG User-Quota Exceeded; 'h323_alg_no_nat_ip': H323 ALG Unknown NAT IP; 'h323_alg_reuse_fullcone': H323 ALG Reuse Full-cone Session; 'h323_alg_fullcone_mismatch': H323 ALG Full-cone Session Mismatch; 'h323_alg_alloc_port_failure': H323 ALG Alloc NAT Port Failure; 'h323_alg_create_fullcone_failure': H323 ALG Create Full-cone Session Failure; 'h323_alg_release_port_failure': H323 ALG Release NAT Port Failure; 'h323_alg_single_rtp_fullcone': H323 ALG Single RTP Full-cone Found; 'h323_alg_single_rtcp_fullcone': H323 ALG Single RTCP Full-cone Found; 'h323_alg_rtcp_fullcone_mismatch': H323 ALG RTCP Full-cone NAT Port Mismatch; 'h323_alg_reuse_rtp_rtcp_fullcone': H323 ALG Reuse RTP/RTCP Full-cone Session; 'h323_alg_alloc_rtp_rtcp_port_failure': H323 ALG Alloc RTP/RTCP NAT Ports Failure; 'h323_alg_alloc_single_port_failure': H323 ALG Alloc Single RTP or RTCP NAT Port Failure; 'h323_alg_create_single_fullcone_failure': H323 ALG Create Single RTP or RTCP Full-cone Session Failure;

'h323_alg_create_rtp_fullcone_failure': H323 ALG Create RTP Full-cone Session Failure; 'h323_alg_create_rtcp_fullcone_failure': H323 ALG Create RTCP Full-cone Session Failure; 'h323_alg_port_pair_alloc_from_consecutive': H323 ALG Port Pair Allocated From Consecutive; 'h323_alg_port_pair_alloc_from_partition': H323 ALG Port Pair Allocated From Partition; 'h323_alg_port_pair_alloc_from_pool_port_batch': H323 ALG Port Pair Allocated From Pool Port Batch; 'h323_alg_port_pair_alloc_from_quota_consecutive': H323 ALG Port Pair Allocated From Quota Consecutive; 'h323_alg_port_pair_alloc_from_quota_partition': H323 ALG Port Pair Allocated From Quota Partition; 'h323_alg_port_pair_alloc_from_quota_partition_error': H323 ALG Port Pair Allocated From Quota Partition Error; 'h323_alg_port_pair_alloc_from_quota_pool_port_batch': H323 ALG Port Pair Allocated From Quota Pool Port Batch; 'port_batch_quota_extension_alloc_failure': Port Batch Extension Alloc Failure (No memory); 'port_batch_free_quota_not_found': Port Batch Quota Not Found on Free; 'port_batch_free_port_not_found': Port Batch Port Not Found on Free; 'port_batch_free_wrong_partition': Port Batch Free Wrong Partition; 'radius_query_quota_ext_alloc_failure': RADIUS Query Container Alloc (No Memoty); 'radius_query_quota_ext_alloc_race_free': RADIUS Query Container Alloc Race Free; 'quota_extension_added': Quota Extension Added to Quota; 'quota_extension_removed': Quota Extension Removed from Quota; 'quota_extension_remove_not_found': Quota Extension Not Found on Remove; 'ha_sync_port_batch_sent': HA Port Batch Extension Sync Sent; 'ha_sync_port_batch_rcv': HA Port Batch Extension Sync Received; 'ha_send_port_batch_not_found': HA Port Batch Not Found on Sync Send; 'ha_rcv_port_not_in_port_batch': HA Port Not in Port Batch on Sync Rcv; 'bad_port_to_free': Freeing Bad Port; 'consecutive_port_free': Port Freed from Consecutive Pool; 'partition_port_free': Port Freed from Partition; 'pool_port_batch_port_free': Port Freed from Pool Port Batch; 'port_allocated_from_quota_consecutive': Port Allocated from Quota Consecutive; 'port_allocated_from_quota_partition': Port Allocated from Quota Partition; 'port_allocated_from_quota_pool_port_batch': Port Allocated from Quota Pool Port Batch; 'port_freed_from_quota_consecutive': Port Freed from Quota Consecutive; 'port_freed_from_quota_partition': Port Freed from Quota Partition; 'port_freed_from_quota_pool_port_batch': Port Freed from Quota Pool Port Batch; 'port_batch_allocated_to_quota': Port Batch Allocated to Quota; 'port_batch_freed_from_quota': Port Batch Freed From Quota; 'specific_port_allocated_from_quota_consecutive': Specific Port Allocated from Quota Consecutive; 'specific_port_allocated_from_quota_partition': Specific Port Allocated from Quota Partition; 'specific_port_allocated_from_quota_pool_port_batch': Specific Port Allocated from Quota Pool Port Batch; 'port_batch_container_alloc_failure': Port Batch Container Alloc Out of Memory; 'port_batch_container_alloc_race_free': Port Batch Container Race Free; 'port_overloading_destination_conflict': Port Overloading Destination Conflict; 'port_overloading_out_of_memory': Port Overloading Out of Memory; 'port_overloading_assign_user': Port Overloading Port Assign User; 'port_overloading_assign_user_port_batch': Port Overloading Port Assign User Port Batch; 'port_overloading_inc': Port Overloading Port Increment; 'port_overloading_dec_on_conflict': Port Overloading Port Decrement on Conflict; 'port_overloading_dec_on_free': Port Overloading Port Decrement on Free; 'port_overloading_free_port_on_conflict': Port Overloading Free Port on Conflict; 'port_overloading_free_port_batch_on_conflict': Port Overloading Free Port Batch on Conflict; 'port_overloading_inc_overflow': Port Overloading Inc Overflow; 'port_overloading_attempt_consecutive_ports': Port Overloading on Consecutive Ports; 'port_overloading_attempt_same_partition': Port Overloading on Same Partition; 'port_overloading_attempt_diff_partition': Port Overloading on Different Partition; 'port_overloading_attempt_failed': Port Overloading Attempt Failed; 'port_overloading_conn_free_retry_lookup': Port Overloading Conn Free Retry Lookup; 'port_overloading_conn_free_not_found': Port Overloading Conn Free

Not Found; 'port_overloading_smp_mem_allocated': Port Overloading SMP Session Allocated; 'port_overloading_smp_mem_freed': Port Overloading SMP Session Freed; 'port_overloading_smp_inserted': Port Overloading SMP Inserted; 'port_overloading_smp_inserted_tcp_shadow': Total Port Overloading SMP TCP Inserted; 'port_overloading_smp_inserted_udp_shadow': Total Port Overloading SMP UDP Inserted; 'port_overloading_smp_free_tcp_shadow': Total Port Overloading SMP TCP Freed; 'port_overloading_smp_free_udp_shadow': Total Port Overloading SMP UDP Freed; 'port_overloading_smp_put_in_del_q_from_conn': Port Overloading SMP Free From Conn; 'port_overloading_smp_free_dec_failure': Port Overloading SMP Free Dec Failure; 'port_overloading_smp_free_no_quota': Port Overloading SMP Free No Quota; 'port_overloading_smp_free_port': Port Overloading SMP Free Port; 'port_overloading_smp_free_port_from_quota': Port Overloading SMP Free Port From Quota; 'port_overloading_for_no_ports': Port Overloading for No Ports; 'port_overloading_for_no_ports_success': Port Overloading for No Ports Success; 'port_overloading_for_quota_exceeded': Port Overloading for Quota Exceeded; 'port_overloading_for_quota_exceeded_success': Port Overloading for Quota Exceeded Success; 'port_overloading_for_quota_exceeded_race': Port Overloading for Quota Exceeded Race; 'port_overloading_for_quota_exceeded_race_success': Port Overloading for Quota Exceeded Race Success; 'port_overloading_for_new_user': Port Overloading for New User; 'port_overloading_for_new_user_success': Port Overloading for New User Success; 'ha_port_overloading_attempt_failed': HA Port Overloading Attempt Failed; 'ha_port_overloading_for_no_ports': HA Port Overloading for No Ports; 'ha_port_overloading_for_no_ports_success': HA Port Overloading for No Ports Success; 'ha_port_overloading_for_quota_exceeded': HA Port Overloading for Quota Exceeded; 'ha_port_overloading_for_quota_exceeded_success': HA Port Overloading for Quota Exceeded Success; 'ha_port_overloading_for_quota_exceeded_race': HA Port Overloading for Quota Exceeded Race; 'ha_port_overloading_for_quota_exceeded_race_success': HA Port Overloading for Quota Exceeded Race Success; 'ha_port_overloading_for_new_user': HA Port Overloading for New User; 'ha_port_overloading_for_new_user_success': HA Port Overloading for New User Success;

Type: string

Supported Values: h323_alg_no_quota, h323_alg_quota_inc_failure, h323_alg_no_nat_ip, h323_alg_reuse_fullcone, h323_alg_fullcone_mismatch, h323_alg_alloc_port_failure, h323_alg_create_fullcone_failure, h323_alg_release_port_failure, h323_alg_single_rtp_fullcone, h323_alg_single_rtcp_fullcone, h323_alg_rtcp_fullcone_mismatch, h323_alg_reuse_rtp_rtcp_fullcone, h323_alg_alloc_rtp_rtcp_port_failure, h323_alg_alloc_single_port_failure, h323_alg_create_single_fullcone_failure, h323_alg_create_rtp_fullcone_failure, h323_alg_create_rtcp_fullcone_failure, h323_alg_port_pair_alloc_from_consecutive, h323_alg_port_pair_alloc_from_partition, h323_alg_port_pair_alloc_from_pool_port_batch, h323_alg_port_pair_alloc_from_quota_consecutive, h323_alg_port_pair_alloc_from_quota_partition, h323_alg_port_pair_alloc_from_quota_partition_error, h323_alg_port_pair_alloc_from_quota_pool_port_batch, port_batch_quota_extension_alloc_failure, port_batch_free_quota_not_found, port_batch_free_port_not_found, port_batch_free_wrong_partition, radius_query_quota_ext_alloc_failure, radius_query_quota_ext_alloc_race_free, quota_extension_added, quota_extension_removed, quota_extension_remove_not_found, ha_sync_port_batch_sent, ha_sync_port_batch_rcv, ha_send_port_batch_not_found, ha_rcv_port_not_in_port_batch, bad_port_to_free, consecutive_port_free, partition_port_free, pool_port_batch_port_free, port_allocated_from_quota_consecutive, port_allocated_from_quota_partition, port_allocated_from_quota_pool_port_batch, port_freed_from_quota_consecutive, port_freed_from_quota_partition, port_freed_from_quota_pool_port_batch, port_batch_allocated_to_quota, port_batch_freed_from_quota, spe-

cific_port_allocated_from_quota_consecutive, specific_port_allocated_from_quota_partition, specific_port_allocated_from_quota_pool_port_batch, port_batch_container_alloc_failure, port_batch_container_alloc_race_free, port_overloading_destination_conflict, port_overloading_out_of_memory, port_overloading_assign_user, port_overloading_assign_user_port_batch, port_overloading_inc, port_overloading_dec_on_conflict, port_overloading_dec_on_free, port_overloading_free_port_on_conflict, port_overloading_free_port_batch_on_conflict, port_overloading_inc_overflow, port_overloading_attempt_consecutive_ports, port_overloading_attempt_same_partition, port_overloading_attempt_diff_partition, port_overloading_attempt_failed, port_overloading_conn_free_retry_lookup, port_overloading_conn_free_not_found, port_overloading_smp_mem_allocated, port_overloading_smp_mem_freed, port_overloading_smp_inserted, port_overloading_smp_inserted_tcp_shadow, port_overloading_smp_inserted_udp_shadow, port_overloading_smp_free_tcp_shadow, port_overloading_smp_free_udp_shadow, port_overloading_smp_put_in_del_q_from_conn, port_overloading_smp_free_dec_failure, port_overloading_smp_free_no_quota, port_overloading_smp_free_port, port_overloading_smp_free_port_from_quota, port_overloading_for_no_ports, port_overloading_for_no_ports_success, port_overloading_for_quota_exceeded, port_overloading_for_quota_exceeded_success, port_overloading_for_quota_exceeded_race, port_overloading_for_quota_exceeded_race_success, port_overloading_for_new_user, port_overloading_for_new_user_success, ha_port_overloading_attempt_failed, ha_port_overloading_for_no_ports, ha_port_overloading_for_no_ports_success, ha_port_overloading_for_quota_exceeded, ha_port_overloading_for_quota_exceeded_success, ha_port_overloading_for_quota_exceeded_race, ha_port_overloading_for_quota_exceeded_race_success, ha_port_overloading_for_new_user, ha_port_overloading_for_new_user_success

counters3

Description 'nat_pool_force_delete': NAT Pool Force Delete; 'quota_ext_too_many': Quota Ext Too Many; 'nat_pool_not_found_on_free': NAT Pool Not Found on Free; 'standby_class_list_drop': Standby Class-List Drop; 'fullcone_inbound_nat_pool_mismatch': Full-cone Session NAT Pool Mismatch; 'bad_ip_tot_len': Bad IPv4 Total Length; 'ip_checksum_verified': IP Checksum Verified; 'ip_checksum_fixed': IP Checksum Fixed; 'ip_checksum_bad_drop': IP Checksum Bad Drop; 'ip_frag_checksum_fixed': IP Frag Checksum Fixed; 'l4_checksum_verified': L4 Checksum Verified; 'l4_checksum_fixed': L4 Checksum Fixed; 'l4_checksum_bad_drop': L4 Checksum Bad Drop; 'jumbo_list_bad_l4_len': Jumbo List Bad L4 Len; 'frag_list_bad_l4_len': Frag List Bad L4 Len; 'nat_pool_attempt_adding_multiple_free_batches': Attempt Adding Multiple Free Batches to Quota; 'nat_pool_add_free_batch_failed': Add Batch to Quota Failed; 'mgcp_alg_no_quota': MGCP ALG User-Quota Not Found; 'mgcp_alg_quota_inc_failure': MGCP ALG User-Quota Exceeded; 'mgcp_alg_no_nat_ip': MGCP ALG Unknown NAT IP; 'mgcp_alg_reuse_fullcone': MGCP ALG Reuse Full-cone Session; 'mgcp_alg_fullcone_mismatch': MGCP ALG Full-cone Session Mismatch; 'mgcp_alg_alloc_port_failure': MGCP ALG Alloc NAT Port Failure; 'mgcp_alg_create_fullcone_failure': MGCP ALG Create Full-cone Session Failure; 'mgcp_alg_release_port_failure': MGCP ALG Release NAT Port Failure; 'mgcp_alg_single_rtp_fullcone': MGCP ALG Single RTP Full-cone Found; 'mgcp_alg_single_rtcp_fullcone': MGCP ALG Single RTCP Full-cone Found; 'mgcp_alg_rtcp_fullcone_mismatch': MGCP ALG RTCP Full-cone NAT Port Mismatch; 'mgcp_alg_reuse_rtp_rtcp_fullcone': MGCP ALG Reuse RTP/RTCP Full-cone Session; 'mgcp_alg_alloc_rtp_rtcp_port_failure': MGCP ALG Alloc RTP/RTCP NAT Ports Failure; 'mgcp_alg_alloc_single_port_failure': MGCP ALG Alloc Single RTP or RTCP NAT Port Failure; 'mgcp_alg_create_single_fullcone_failure': MGCP ALG Create Single RTP or RTCP Full-cone Session Failure; 'mgcp_alg_create_rtp_fullcone_failure': MGCP ALG Create RTP Full-cone Session Failure;

'mgcp_alg_create_rtcp_fullcone_failure': MGCP ALG Create RTCP Full-cone Session Failure; 'mgcp_alg_port_pair_alloc_from_consecutive': MGCP ALG Port Pair Allocated From Consecutive; 'mgcp_alg_port_pair_alloc_from_partition': MGCP ALG Port Pair Allocated From Partition; 'mgcp_alg_port_pair_alloc_from_pool_port_batch': MGCP ALG Port Pair Allocated From Pool Port Batch; 'mgcp_alg_port_pair_alloc_from_quota_consecutive': MGCP ALG Port Pair Allocated From Quota Consecutive; 'mgcp_alg_port_pair_alloc_from_quota_partition': MGCP ALG Port Pair Allocated From Quota Partition; 'mgcp_alg_port_pair_alloc_from_quota_partition_error': MGCP ALG Port Pair Allocated From Quota Partition Error; 'mgcp_alg_port_pair_alloc_from_quota_pool_port_batch': MGCP ALG Port Pair Allocated From Quota Pool Port Batch; 'user_quota_unusable_drop': User-Quota Unusable Drop; 'user_quota_unusable': User-Quota Marked Unusable; 'nat_pool_same_port_batch_udp_failed': Simultaneous Batch Allocation UDP Port Allocation Failed; 'fwd_ingress_packets_tcp': Forward Ingress Packets TCP; 'fwd_egress_packets_tcp': Forward Egress Packets TCP; 'rev_ingress_packets_tcp': Reverse Ingress Packets TCP; 'rev_egress_packets_tcp': Reverse Egress Packets TCP; 'fwd_ingress_bytes_tcp': Forward Ingress Bytes TCP; 'fwd_egress_bytes_tcp': Forward Egress Bytes TCP; 'rev_ingress_bytes_tcp': Reverse Ingress Bytes TCP; 'rev_egress_bytes_tcp': Reverse Egress Bytes TCP; 'fwd_ingress_packets_udp': Forward Ingress Packets UDP; 'fwd_egress_packets_udp': Forward Egress Packets UDP; 'rev_ingress_packets_udp': Reverse Ingress Packets UDP; 'rev_egress_packets_udp': Reverse Egress Packets UDP; 'fwd_ingress_bytes_udp': Forward Ingress Bytes UDP; 'fwd_egress_bytes_udp': Forward Egress Bytes UDP; 'rev_ingress_bytes_udp': Reverse Ingress Bytes UDP; 'rev_egress_bytes_udp': Reverse Egress Bytes UDP; 'fwd_ingress_packets_icmp': Forward Ingress Packets ICMP; 'fwd_egress_packets_icmp': Forward Egress Packets ICMP; 'rev_ingress_packets_icmp': Reverse Ingress Packets ICMP; 'rev_egress_packets_icmp': Reverse Egress Packets ICMP; 'fwd_ingress_bytes_icmp': Forward Ingress Bytes ICMP; 'fwd_egress_bytes_icmp': Forward Egress Bytes ICMP; 'rev_ingress_bytes_icmp': Reverse Ingress Bytes ICMP; 'rev_egress_bytes_icmp': Reverse Egress Bytes ICMP; 'fwd_ingress_packets_others': Forward Ingress Packets OTHERS; 'fwd_egress_packets_others': Forward Egress Packets OTHERS; 'rev_ingress_packets_others': Reverse Ingress Packets OTHERS; 'rev_egress_packets_others': Reverse Egress Packets OTHERS; 'fwd_ingress_bytes_others': Forward Ingress Bytes OTHERS; 'fwd_egress_bytes_others': Forward Egress Bytes OTHERS; 'rev_ingress_bytes_others': Reverse Ingress Bytes OTHERS; 'rev_egress_bytes_others': Reverse Egress Bytes OTHERS; 'fwd_ingress_pkt_size_range1': Forward Ingress Packet size between 0 and 200; 'fwd_ingress_pkt_size_range2': Forward Ingress Packet size between 201 and 800; 'fwd_ingress_pkt_size_range3': Forward Ingress Packet size between 801 and 1550; 'fwd_ingress_pkt_size_range4': Forward Ingress Packet size between 1551 and 9000; 'fwd_egress_pkt_size_range1': Forward Egress Packet size between 0 and 200; 'fwd_egress_pkt_size_range2': Forward Egress Packet size between 201 and 800; 'fwd_egress_pkt_size_range3': Forward Egress Packet size between 801 and 1550; 'fwd_egress_pkt_size_range4': Forward Egress Packet size between 1551 and 9000; 'rev_ingress_pkt_size_range1': Reverse Ingress Packet size between 0 and 200; 'rev_ingress_pkt_size_range2': Reverse Ingress Packet size between 201 and 800; 'rev_ingress_pkt_size_range3': Reverse Ingress Packet size between 801 and 1550; 'rev_ingress_pkt_size_range4': Reverse Ingress Packet size between 1551 and 9000; 'rev_egress_pkt_size_range1': Reverse Egress Packet size between 0 and 200; 'rev_egress_pkt_size_range2': Reverse Egress Packet size between 201 and 800; 'rev_egress_pkt_size_range3': Reverse Egress Packet size between 801 and 1550; 'rev_egress_pkt_size_range4': Reverse Egress Packet size between 1551 and 9000; 'prefix_quota_mismatch': Prefix Quota NAT IP Mismatch;

Type: string

Supported Values: nat_pool_force_delete, quota_ext_too_many, nat_pool_not_found_on_free, standby_class_list_drop, full-cone_inbound_nat_pool_mismatch, bad_ip_tot_len, ip_checksum_verified, ip_checksum_fixed, ip_checksum_bad_drop, ip_frag_checksum_fixed, l4_checksum_verified, l4_checksum_fixed, l4_checksum_bad_drop, jumbo_list_bad_l4_len, frag_list_bad_l4_len, nat_pool_attempt_adding_multiple_free_batches, nat_pool_add_free_batch_failed, mgcp_alg_no_quota, mgcp_alg_quota_inc_failure, mgcp_alg_no_nat_ip, mgcp_alg_reuse_fullcone, mgcp_alg_fullcone_mismatch, mgcp_alg_alloc_port_failure, mgcp_alg_create_fullcone_failure, mgcp_alg_release_port_failure, mgcp_alg_single_rtp_fullcone, mgcp_alg_single_rtcp_fullcone, mgcp_alg_rtcp_fullcone_mismatch, mgcp_alg_reuse_rtp_rtcp_fullcone, mgcp_alg_alloc_rtp_rtcp_port_failure, mgcp_alg_alloc_single_port_failure, mgcp_alg_create_single_fullcone_failure, mgcp_alg_create_rtp_fullcone_failure, mgcp_alg_create_rtcp_fullcone_failure, mgcp_alg_port_pair_alloc_from_consecutive, mgcp_alg_port_pair_alloc_from_partition, mgcp_alg_port_pair_alloc_from_pool_port_batch, mgcp_alg_port_pair_alloc_from_quota_consecutive, mgcp_alg_port_pair_alloc_from_quota_partition, mgcp_alg_port_pair_alloc_from_quota_partition_error, mgcp_alg_port_pair_alloc_from_quota_pool_port_batch, user_quota_unusable_drop, user_quota_unusable, nat_pool_same_port_batch_udp_failed, fwd_ingress_packets_tcp, fwd_egress_packets_tcp, rev_ingress_packets_tcp, rev_egress_packets_tcp, fwd_ingress_bytes_tcp, fwd_egress_bytes_tcp, rev_ingress_bytes_tcp, rev_egress_bytes_tcp, fwd_ingress_packets_udp, fwd_egress_packets_udp, rev_ingress_packets_udp, rev_egress_packets_udp, fwd_ingress_bytes_udp, fwd_egress_bytes_udp, rev_ingress_bytes_udp, rev_egress_bytes_udp, fwd_ingress_packets_icmp, fwd_egress_packets_icmp, rev_ingress_packets_icmp, rev_egress_packets_icmp, fwd_ingress_bytes_icmp, fwd_egress_bytes_icmp, rev_ingress_bytes_icmp, rev_egress_bytes_icmp, fwd_ingress_packets_others, fwd_egress_packets_others, rev_ingress_packets_others, rev_egress_packets_others, fwd_ingress_bytes_others, fwd_egress_bytes_others, rev_ingress_bytes_others, rev_egress_bytes_others, fwd_ingress_pkt_size_range1, fwd_ingress_pkt_size_range2, fwd_ingress_pkt_size_range3, fwd_ingress_pkt_size_range4, fwd_egress_pkt_size_range1, fwd_egress_pkt_size_range2, fwd_egress_pkt_size_range3, fwd_egress_pkt_size_range4, rev_ingress_pkt_size_range1, rev_ingress_pkt_size_range2, rev_ingress_pkt_size_range3, rev_ingress_pkt_size_range4, rev_egress_pkt_size_range1, rev_egress_pkt_size_range2, rev_egress_pkt_size_range3, rev_egress_pkt_size_range4, prefix_quota_mismatch, port_overloading_port_tcp_inserted, port_overloading_port_udp_inserted, port_overloading_port_free_tcp, port_overloading_port_free_udp

icmp

Specification	Value
Type	*object*

send-on-port-unavailable

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered; 'disable': Disable ICMP port unavailable message (default);

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: disable

send-on-user-quota-exceeded

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered (default); 'disable': Disable ICMP quota exceeded message;

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: admin-filtered

2.26.32 cgnv6 ds-lite global stats

Statistics for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/ds-lite/global/stats
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/global/stats

global attributes

Get Object

GET

/axapi/v3/cgnv6/ds-lite/global/stats

global attributes

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/global/stats

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/global/stats

global attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/global/stats

global attributes

global attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

class_list_permit_drop

Description Permit Class-List Drop

Type: number

Format: counter

data_sesn_rate_user_quota_exceeded

Description Conn Rate User-Quota Exceeded

Type: number

Format: counter

data_sesn_user_quota_exceeded

Description Data Session User-Quota Exceeded

Type: number

Format: counter

data_session_created

Description Data Session Created

Type: number

Format: counter

data_session_freed

Description Data Session Freed

Type: number

Format: counter

eif_limit_exceeded

Description Endpoint-Independent Filtering Inbound Limit Exceeded

Type: number

Format: counter

endpoint_indep_filter_match

Description Endpoint-Independent Filtering Matched

Type: number

Format: counter

endpoint_indep_map_match

Description Endpoint-Independent Mapping Matched

Type: number

Format: counter

extended_quota_exceeded

Description Extended User-Quota Exceeded

Type: number

Format: counter

extended_quota_matched

Description Extended User-Quota Matched

Type: number

Format: counter

fullcone_failure

Description Full-cone Session Creation Failed

Type: number

Format: counter

fullcone_self_hairpinning_drop

Description Self-Hairpinning Drop

Type: number

Format: counter

fwd_egress_bytes_icmp

Description Forward Egress Bytes ICMP

Type: number

Format: counter

fwd_egress_bytes_others

Description Forward Egress Bytes OTHERS

Type: number

Format: counter

fwd_egress_bytes_tcp

Description Forward Egress Bytes TCP

Type: number

Format: counter

fwd_egress_bytes_udp

Description Forward Egress Bytes UDP

Type: number

Format: counter

fwd_egress_packets_icmp

Description Forward Egress Packets ICMP

Type: number

Format: counter

fwd_egress_packets_others

Description Forward Egress Packets OTHERS

Type: number

Format: counter

fwd_egress_packets_tcp

Description Forward Egress Packets TCP

Type: number

Format: counter

fwd_egress_packets_udp

Description Forward Egress Packets UDP

Type: number

Format: counter

fwd_egress_pkt_size_range1

Description Forward Egress Packet size between 0 and 200

Type: number

Format: counter

fwd_egress_pkt_size_range2

Description Forward Egress Packet size between 201 and 800

Type: number

Format: counter

fwd_egress_pkt_size_range3

Description Forward Egress Packet size between 801 and 1550

Type: number

Format: counter

fwd_egress_pkt_size_range4

Description Forward Egress Packet size between 1551 and 9000

Type: number

Format: counter

fwd_ingress_bytes_icmp

Description Forward Ingress Bytes ICMP

Type: number

Format: counter

fwd_ingress_bytes_others

Description Forward Ingress Bytes OTHERS

Type: number

Format: counter

fwd_ingress_bytes_tcp

Description Forward Ingress Bytes TCP

Type: number

Format: counter

fwd_ingress_bytes_udp

Description Forward Ingress Bytes UDP

Type: number

Format: counter

fwd_ingress_packets_icmp

Description Forward Ingress Packets ICMP

Type: number

Format: counter

fwd_ingress_packets_others

Description Forward Ingress Packets OTHERS

Type: number

Format: counter

fwd_ingress_packets_tcp

Description Forward Ingress Packets TCP

Type: number

Format: counter

fwd_ingress_packets_udp

Description Forward Ingress Packets UDP

Type: number

Format: counter

fwd_ingress_pkt_size_range1

Description Forward Ingress Packet size between 0 and 200

Type: number

Format: counter

fwd_ingress_pkt_size_range2

Description Forward Ingress Packet size between 201 and 800

Type: number

Format: counter

fwd_ingress_pkt_size_range3

Description Forward Ingress Packet size between 801 and 1550

Type: number

Format: counter

fwd_ingress_pkt_size_range4

Description Forward Ingress Packet size between 1551 and 9000

Type: number

Format: counter

ha_nat_pool_batch_type_mismatch

Description HA NAT Pool Batch Type Mismatch

Type: number

Format: counter

ha_nat_pool_unusable

Description HA NAT Pool Unusable

Type: number

Format: counter

hairpin

Description Hairpin Session Created

Type: number

Format: counter

icmp_user_quota_exceeded

Description ICMP User-Quota Exceeded

Type: number

Format: counter

inbound_filtered

Description Endpoint-Dependent Filtering Drop

Type: number

Format: counter

lid_drop

Description LSN LID Drop

Type: number

Format: counter

lid_pass_through

Description LSN LID Pass-through

Type: number

Format: counter

nat_pool_unusable

Description NAT Pool Unusable

Type: number

Format: counter

nat_port_unavailable_icmp

Description ICMP NAT Port Unavailable

Type: number

Format: counter

nat_port_unavailable_tcp

Description TCP NAT Port Unavailable

Type: number

Format: counter

nat_port_unavailable_udp

Description UDP NAT Port Unavailable

Type: number

Format: counter

new_user_resource_unavailable

Description New User NAT Resource Unavailable

Type: number

Format: counter

no_class_list_match

Description No Class-List Match

Type: number

Format: counter

no_radius_profile_match

Description No RADIUS Profile Match

Type: number

Format: counter

port_overloading_port_free_tcp

Description TCP Port Overloading NAT Port Freed

Type: number

Format: counter

port_overloading_port_free_udp

Description UDP Port Overloading NAT Port Freed

Type: number

Format: counter

port_overloading_port_tcp_inserted

Description Port Overloading NAT Port TCP Inserted

Type: number

Format: counter

port_overloading_port_udp_inserted

Description Port Overloading NAT Port UDP Inserted

Type: number

Format: counter

port_overloading_smp_free_tcp

Description TCP Port Overloading Session Freed

Type: number

Format: counter

port_overloading_smp_free_udp

Description UDP Port Overloading Session Freed

Type: number

Format: counter

port_overloading_smp_inserted_tcp

Description TCP Port Overloading Session Created

Type: number

Format: counter

port_overloading_smp_inserted_udp

Description UDP Port Overloading Session Created

Type: number

Format: counter

prefix_quota_mismatch

Description Prefix Quota NAT IP Mismatch

Type: number

Format: counter

rev_egress_bytes_icmp

Description Reverse Egress Bytes ICMP

Type: number

Format: counter

rev_egress_bytes_others

Description Reverse Egress Bytes OTHERS

Type: number

Format: counter

rev_egress_bytes_tcp

Description Reverse Egress Bytes TCP

Type: number

Format: counter

rev_egress_bytes_udp

Description Reverse Egress Bytes UDP

Type: number

Format: counter

rev_egress_packets_icmp

Description Reverse Egress Packets ICMP

Type: number

Format: counter

rev_egress_packets_others

Description Reverse Egress Packets OTHERS

Type: number

Format: counter

rev_egress_packets_tcp

Description Reverse Egress Packets TCP

Type: number

Format: counter

rev_egress_packets_udp

Description Reverse Egress Packets UDP

Type: number

Format: counter

rev_egress_pkt_size_range1

Description Reverse Egress Packet size between 0 and 200

Type: number

Format: counter

rev_egress_pkt_size_range2

Description Reverse Egress Packet size between 201 and 800

Type: number

Format: counter

rev_egress_pkt_size_range3

Description Reverse Egress Packet size between 801 and 1550

Type: number

Format: counter

rev_egress_pkt_size_range4

Description Reverse Egress Packet size between 1551 and 9000

Type: number

Format: counter

rev_ingress_bytes_icmp

Description Reverse Ingress Bytes ICMP

Type: number

Format: counter

rev_ingress_bytes_others

Description Reverse Ingress Bytes OTHERS

Type: number

Format: counter

rev_ingress_bytes_tcp

Description Reverse Ingress Bytes TCP

Type: number

Format: counter

rev_ingress_bytes_udp

Description Reverse Ingress Bytes UDP

Type: number

Format: counter

rev_ingress_packets_icmp

Description Reverse Ingress Packets ICMP

Type: number

Format: counter

rev_ingress_packets_others

Description Reverse Ingress Packets OTHERS

Type: number

Format: counter

rev_ingress_packets_tcp

Description Reverse Ingress Packets TCP

Type: number

Format: counter

rev_ingress_packets_udp

Description Reverse Ingress Packets UDP

Type: number

Format: counter

rev_ingress_pkt_size_range1

Description Reverse Ingress Packet size between 0 and 200

Type: number

Format: counter

rev_ingress_pkt_size_range2

Description Reverse Ingress Packet size between 201 and 800

Type: number

Format: counter

rev_ingress_pkt_size_range3

Description Reverse Ingress Packet size between 801 and 1550

Type: number

Format: counter

rev_ingress_pkt_size_range4

Description Reverse Ingress Packet size between 1551 and 9000

Type: number

Format: counter

tcp_fullcone_created

Description TCP Full-cone Session Created

Type: number

Format: counter

tcp_fullcone_freed

Description TCP Full-cone Session Freed

Type: number

Format: counter

tcp_user_quota_exceeded

Description TCP User-Quota Exceeded

Type: number

Format: counter

total_icmp_allocated

Description Total ICMP Ports Allocated

Type: number

Format: counter

total_icmp_freed

Description Total ICMP Ports Freed

Type: number

Format: counter

total_tcp_allocated

Description Total TCP Ports Allocated

Type: number

Format: counter

total_tcp_freed

Description Total TCP Ports Freed

Type: number

Format: counter

total_tcp_overloaded

Description TCP Port Overloaded

Type: number

Format: counter

total_udp_allocated

Description Total UDP Ports Allocated

Type: number

Format: counter

total_udp_freed

Description Total UDP Ports Freed

Type: number

Format: counter

total_udp_overloaded

Description UDP Port Overloaded

Type: number

Format: counter

truncated_packet

Description Truncated Packet

Type: number

Format: counter

udp_fullcone_created

Description UDP Full-cone Session Created

Type: number

Format: counter

udp_fullcone_freed

Description UDP Full-cone Session Freed

Type: number

Format: counter

udp_user_quota_exceeded

Description UDP User-Quota Exceeded

Type: number

Format: counter

user_quota_created

Description User-Quota Created

Type: number

Format: counter

user_quota_failure

Description User-Quota Creation Failed

Type: number

Format: counter

user_quota_put_in_del_q

Description User-Quota Freed

Type: number

Format: counter

user_quota_unusable

Description User-Quota Marked Unusable

Type: number

Format: counter

user_quota_unusable_drop

Description User-Quota Unusable Drop

Type: number

Format: counter

2.26.33 cgnv6 ds-lite port-reservation

DS-Lite Static Port Reservation

port-reservation Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*inside, tunnel-dest-address, inside-addr, inside-start-port, inside-end-port, nat, nat-start-port, nat-end-port*
Collection Name	*port-reservation-list*
Collection URI	/axapi/v3/cgnv6/ds-lite/port-reservation
Element Name	port-reservation
Element URI	/axapi/v3/cgnv6/ds-lite/port-reservation/{inside}+{tunnel-dest-address}+{inside-addr}+{inside-start-port}+{inside-end-port}+{nat}+{nat-start-port}+{nat-end-port}
Element Attributes	port-reservation_attributes
Partition Visibility	shared
Schema	`port-reservation schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/port-reservation

port-reservation attributes

```
POST /axapi/v3/cgnv6/ds-lite/port-reservation/
Payload:
{
    "port-reservation": {
        "nat-end-port": 1,
        "inside": "2003::1",
        "tunnel-dest-address": "2003::1",
        "inside-start-port": 1,
        "nat": "3.3.3.3",
        "inside-end-port": 1,
        "nat-start-port": 1,
        "inside-addr": "3.3.3.3"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/ds-lite/port-reservation

port-reservation attributes

Get Object

GET

/axapi/v3/cgnv6/ds-lite/port-reservation/{inside}+{tunnel-dest-address}+{inside-addr}+{inside-start-port}+{inside-end-port}+{nat}+{nat-start-port}+{nat-end-port}

port-reservation attributes

```
GET /axapi/v3/cgnv6/ds-lite/port-reservation/2003::1+2003::1+3.3.3.3+1+1+3.3.3.3+1+1
Reponse:
{
    "port-reservation": {
        "inside": "2003::1",
        "tunnel-dest-address": "2003::1",
        "inside-addr": "3.3.3.3",
        "inside-start-port": 1,
        "inside-end-port": 1,
        "nat": "3.3.3.3",
        "nat-start-port": 1,
        "nat-end-port": 1,
        "uuid": "f4f79ebe-0898-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/ds-lite/port-reservation/2003%3A%3A1+2003%3A%3A1+3.3.
↪3.3+1+1+3.3.3.3+1+1"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/ds-lite/port-reservation

port-reservation-list

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/port-reservation/{inside}+{tunnel-dest-address}+{inside-addr}+{inside-start-port}+{inside-end-port}+{nat}+{nat-start-port}+{nat-end-port}

port-reservation attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/port-reservation/{inside}+{tunnel-dest-address}+{inside-addr}+{inside-start-port}+{inside-end-port}+{nat}+{nat-start-port}+{nat-end-port}

port-reservation attributes

```
PUT /axapi/v3/cgnv6/ds-lite/port-reservation/2003::1+2003::1+3.3.3.3+1+1+3.3.3.3+1+1
Payload:
{
    "port-reservation": {
        "nat-end-port": 1,
```

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```
        "inside": "2003::1",
        "tunnel-dest-address": "2003::1",
        "inside-start-port": 1,
        "nat": "3.3.3.3",
        "inside-end-port": 1,
        "nat-start-port": 1,
        "inside-addr": "3.3.3.3"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/ds-lite/port-reservation

port-reservation-list

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/port-reservation/{inside}+{tunnel-dest-address}+{inside-addr}+{inside-start-port}+{inside-end-port}+{nat}+{nat-start-port}+{nat-end-port}

port-reservation attributes

```
DELETE /axapi/v3/cgnv6/ds-lite/port-reservation/2003::1+2003::1+3.3.3.3+1+1+1+3.3.3.3+1+1
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

port-reservation-list

port-reservation-list is **JSON List** of *port-reservation attributes*

port-reservation-list : [

{ *port-reservation attributes* },

{ *port-reservation attributes* },

...

]

port-reservation attributes

inside

Description Inside User Address and Port Range (DS-Lite Inside User's Tunnel Source IPv6 Address)

Type: string

Format: ipv6-address

inside-addr

Description Inside User IP address

Type: string

Format: ipv4-address

inside-end-port

Description Inside End Port

Type: number

Range: 1-65535

inside-start-port

Description Inside Start Port

Type: number

Range: 1-65535

nat

Description NAT Port Range (NAT IP address)

Type: string

Format: ipv4-address

nat-end-port

Description NAT End Port

Type: number

Range: 1-65535

nat-start-port

Description NAT Start Port

Type: number

Range: 1-65535

tunnel-dest-address

Description DS-Lite Inside User's Tunnel Destination IPv6 Address

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.34 cgnv6 ds-lite port-reservation-entries

DS-Lite Static Port Reservation

port-reservation-entries Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-reservation-entries
Element URI	/axapi/v3/cgnv6/ds-lite/port-reservation-entries
Element Attributes	port-reservation-entries_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/ds-lite/port-reservation-entries/oper
Schema	`port-reservation-entries schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/port-reservation-entries

port-reservation-entries attributes

Get Object

GET

/axapi/v3/cgnv6/ds-lite/port-reservation-entries

port-reservation-entries attributes

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/port-reservation-entries

port-reservation-entries attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/port-reservation-entries

port-reservation-entries attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/port-reservation-entries

port-reservation-entries attributes

port-reservation-entries attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.35 cgnv6 ds-lite port-reservation-entries oper

Operational Status for the object port-reservation-entries

port-reservation-entries Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-reservation-entries
Element URI	/axapi/v3/cgnv6/ds-lite/port-reservation-entries/oper
Element Attributes	port-reservation-entries_attributes
Partition Visibility	None
Schema	`port-reservation-entries schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/port-reservation-entries/oper

port-reservation-entries attributes

Get Object

GET

/axapi/v3/cgnv6/ds-lite/port-reservation-entries/oper

port-reservation-entries attributes

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/port-reservation-entries/oper

port-reservation-entries attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/port-reservation-entries/oper

port-reservation-entries attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/port-reservation-entries/oper

port-reservation-entries attributes

port-reservation-entries attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

entry-count

Description

Type: number

entry-list

Type: List

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

inside-address

Description

Type: string

Format: ipv4-address

inside-end-port

Description

Type: number

inside-start-port

Description

Type: number

nat-address

Description

Type: string

Format: ipv4-address

nat-end-port

Description

Type: number

nat-start-port

Description

Type: number

tunnel-dest-address

Description

Type: string

Format: ipv6-address

tunnel-src-address

Description

Type: string

Format: ipv6-address

2.26.36 cgnv6 ds-lite user-quota-session

LSN Per User Statistics

user-quota-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	user-quota-session
Element URI	/axapi/v3/cgnv6/ds-lite/user-quota-session
Element Attributes	user-quota-session_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/ds-lite/user-quota-session/oper
Schema	`user-quota-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/user-quota-session

user-quota-session attributes

Get Object

GET

/axapi/v3/cgnv6/ds-lite/user-quota-session

user-quota-session attributes

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/user-quota-session

user-quota-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/user-quota-session

user-quota-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/user-quota-session

user-quota-session attributes

user-quota-session attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.37 cgnv6 ds-lite user-quota-session oper

Operational Status for the object user-quota-session

user-quota-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	user-quota-session
Element URI	/axapi/v3/cgnv6/ds-lite/user-quota-session/oper
Element Attributes	user-quota-session_attributes
Partition Visibility	None
Schema	`user-quota-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ds-lite/user-quota-session/oper

user-quota-session attributes

Get Object

GET

/axapi/v3/cgnv6/ds-lite/user-quota-session/oper

user-quota-session attributes

Modify Object

POST

/axapi/v3/cgnv6/ds-lite/user-quota-session/oper

user-quota-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/ds-lite/user-quota-session/oper

user-quota-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/ds-lite/user-quota-session/oper

user-quota-session attributes

user-quota-session attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-partitions

Description

Type: boolean

Supported Values: true, false, 1, 0

display-debug

Description

Type: string

Supported Values: true

inside-addr-v6

Description

Type: string

Format: ipv6-address

nat-addr

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

partition-name

Description

Type: string

pool-shared

Description

Type: boolean

Supported Values: true, false, 1, 0

prefix-filter

Description

Type: string

Format: ipv6-address-plen

session-count

Description

Type: number

session-list

Type: List

shared-partition

Description

Type: boolean

Supported Values: true, false, 1, 0

top-by-all-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

top-by-icmp-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

top-by-tcp-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

top-by-udp-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

top-count

Description

Type: number

top-sort-by-cli

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_session-list

Specification	Value
Type	*list*
Block object keys	

flags

Description

Type: string

icmp-quota

Description

Type: number

Range: 1-65535

inside-address

Description

Type: string

Format: ipv6-address

lid-number

Description

Type: number

nat-address

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

prefix-len

Description

Type: number

session-count

Description

Type: number

session-count-tcp

Description

Type: number

session-count-udp

Description

Type: number

tcp-quota

Description

Type: number

Range: 1-65535

udp-quota

Description

Type: number

Range: 1-65535

2.26.38 cgnv6 ecmp

Configure ECMP hashing method for CGN

ecmp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ecmp
Element URI	/axapi/v3/cgnv6/ecmp
Element Attributes	ecmp_attributes
Partition Visibility	shared
Schema	`ecmp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/ecmp

ecmp attributes

```
POST /axapi/v3/cgnv6/ecmp
Payload:
{
    "ecmp": {
        "hashing-type": "4-tuple-hash"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/ecmp

ecmp attributes

```
GET /axapi/v3/cgnv6/ecmp
Reponse:
{
    "ecmp": {
        "hashing-type": "4-tuple-hash",
        "uuid": "32aacb8c-0899-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/ecmp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/ecmp

ecmp attributes

Replace Object

PUT

/axapi/v3/cgnv6/ecmp

ecmp attributes

```
PUT /axapi/v3/cgnv6/ecmp
Payload:
{
    "ecmp": {
        "hashing-type": "4-tuple-hash"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/ecmp

ecmp attributes

```
DELETE /axapi/v3/cgnv6/ecmp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ecmp attributes

hashing-type

Description '4-tuple-hash': Hash on Src IP , Src Port, Dest IP and Dest Port;

Type: string

Supported Values: 4-tuple-hash

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.39 cgnv6 fixed-nat

Configure Fixed NAT

fixed-nat Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	fixed-nat
Element URI	/axapi/v3/cgnv6/fixed-nat
Element Attributes	fixed-nat_attributes
Partition Visibility	shared
Schema	`fixed-nat schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/fixed-nat

fixed-nat_attributes

fixed-nat attributes

alg

Description: alg is a **JSON Block**. Please see below for *alg*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg*

detail

Description: detail is a **JSON Block**. Please see below for *detail*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/detail*

disable

Description: disable is a **JSON Block**. Please see below for *disable*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/disable*

disabled-config

Description: disabled-config is a **JSON Block**. Please see below for *disabled-config*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/disabled-config*

full-cone-session

Description: full-cone-session is a **JSON Block**. Please see below for *full-cone-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/full-cone-session*

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/global*

histogram

Description: histogram is a **JSON Block**. Please see below for *histogram*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/histogram*

hw-accelerate

Description: hw-accelerate is a **JSON Block**. Please see below for *hw-accelerate*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/hw-accelerate*

inside

Description: inside is a **JSON Block**. Please see below for *inside*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/inside*

per-instance

Description: per-instance is a **JSON Block**. Please see below for *per-instance*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/per-instance*

port-mapping

Description: port-mapping is a **JSON Block**. Please see below for *port-mapping*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/port-mapping*

port-mapping-files

Description: port-mapping-files is a **JSON Block**. Please see below for *port-mapping-files*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/port-mapping-files*

user-quota

Description: user-quota is a **JSON Block**. Please see below for *user-quota*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/user-quota*

port-mapping

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

full-cone-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg

Specification	Value
Type	*object*

esp

Description: esp is a **JSON Block**. Please see below for *alg_esp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/esp*

ftp

Description: ftp is a **JSON Block**. Please see below for *alg_ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/ftp*

h323

Description: h323 is a **JSON Block**. Please see below for *alg_h323*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/h323*

mgcp

Description: mgcp is a **JSON Block**. Please see below for *alg_mgcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/mgcp*

pptp

Description: pptp is a **JSON Block**. Please see below for *alg_pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/pptp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *alg_rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *alg_sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *alg_tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/tftp*

alg_ftp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_ftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'port-requests': PORT Requests From Client; 'eprt-requests': EPRT Requests From Client; 'lprt-requests': LPRT Requests From Client; 'pasv-replies': PASV Replies From Server; 'epsv-replies': EPSV Replies From Server; 'lpsv-replies': LPSV Replies From Server; 'port-retransmits': Port Mode Request Retransmits; 'pasv-retransmits': Passive Mode Reply Retransmits; 'port-helper-created': Port Mode Helper Created; 'pasv-helper-created': Passive Mode Helper Created; 'port-helper-freed': Port Mode Helper Freed; 'pasv-helper-freed': Passive Mode Helper Freed; 'port-helper-unused': Port Mode Helper Unused; 'pasv-helper-unused': Passive Mode Helper Unused; 'port-helper-creation-failure': Port Helper Creation Failure; 'pasv-helper-creation-failure': Passive Helper Creation Failure; 'get-conn-ext-failure': Get Conn Extension Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, port-requests, eprt-requests, lprt-requests, pasv-replies, epsv-replies, lpsv-replies, port-retransmits, pasv-retransmits, port-helper-created, pasv-helper-created, port-helper-freed, pasv-helper-freed, port-helper-unused, pasv-helper-unused, port-helper-creation-failure, pasv-helper-creation-failure, get-conn-ext-failure, smp-app-type-mismatch

alg_sip

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_sip_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'method-register': SIP Method REGISTER; 'method-invite': SIP Method INVITE; 'method-ack': SIP Method ACK; 'method-cancel': SIP Method CANCEL; 'method-bye': SIP Method BYE; 'method-options': SIP Method OPTIONS; 'method-prack': SIP Method PRACK; 'method-subscribe': SIP Method SUBSCRIBE; 'method-notify': SIP Method NOTIFY; 'method-publish': SIP Method PUBLISH; 'method-info': SIP Method INFO; 'method-refer': SIP Method REFER; 'method-message': SIP Method MESSAGE; 'method-update': SIP Method UPDATE; 'method-unknown': SIP Method UNKNOWN; 'parse-error': SIP Message Parse Error; 'req-uri-op-failrue': SIP Operate Request Uri Failure; 'via-hdr-op-failrue': SIP Operate Via Header Failure; 'contact-hdr-op-failrue': SIP Operate Contact Header Failure; 'from-hdr-op-failrue': SIP Operate From Header Failure; 'to-hdr-op-failrue': SIP Operate To Header Failure; 'route-hdr-op-failrue': SIP Operate Route Header Failure; 'record-route-hdr-op-failrue': SIP Operate Record-Route Header Failure; 'content-length-hdr-op-failrue': SIP Operate Content-Length Failure; 'third-party-registration': SIP Third-Party Registration; 'conn-ext-creation-failure': SIP Create Connection Extension Failure; 'alloc-contact-port-failure': SIP Alloc Contact Port Failure; 'outside-contact-port-mismatch': SIP Outside Contact Port Mismatch NAT Port; 'inside-contact-port-mismatch': SIP Inside Contact Port Mismatch; 'third-party-sdp': SIP Third-Party SDP; 'sdp-process-candidate-failure': SIP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': SIP Operate SDP Failure; 'sdp-alloc-port-map-success': SIP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': SIP Alloc SDP Port Map Failure; 'modify-failure': SIP Message Modify Failure; 'rewrite-failure': SIP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'helper-found': SMP Helper Conn Found; 'helper-created': SMP Helper Conn Created; 'helper-deleted': SMP Helper Conn Already Deleted; 'helper-freed': SMP Helper Conn Freed; 'helper-failure': SMP Helper Failure;

Type: string

Supported Values: all, method-register, method-invite, method-ack, method-cancel, method-bye, method-options, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error, req-uri-op-failrue, via-hdr-op-failrue, contact-hdr-op-failrue, from-hdr-op-failrue, to-hdr-op-failrue, route-hdr-op-failrue, record-route-hdr-op-failrue, content-length-hdr-op-failrue, third-party-registration, conn-ext-creation-failure, alloc-contact-port-failure, outside-contact-port-mismatch, inside-contact-port-mismatch, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop, smp-conn-alloc-failure, helper-found, helper-created, helper-deleted, helper-freed, helper-failure

alg_esp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_esp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'placeholder-debug': Placeholder Debug;

Type: string

Supported Values: all, session-created, placeholder-debug

alg_pptp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_pptp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'mismatched-pns-call-id': Mismatched PNS Call ID; 'gre-sessions-created': GRE Sessions Created; 'gre-sessions-freed': GRE Sessions Freed; 'no-gre-session-match': No Matching GRE Session; 'smp-sessions-created': SMP Sessions Created; 'smp-sessions-freed': SMP Sessions Freed; 'smp-session-creation-failure': SMP Session Creation Failures; 'extension-creation-failure': Extension Creation Failures; 'ha-sent': HA Info Sent; 'ha-rcv': HA Info Received; 'ha-no-mem': HA Memory Allocation Failure; 'ha-conflict': HA Call ID Conflicts; 'ha-overwrite': HA Call ID Overwrites; 'ha-call-sent': HA Call Sent; 'ha-call-rcv': HA Call Received; 'ha-smp-conflict': HA SMP Conflicts; 'ha-smp-in-del-q': HA SMP Deleted; 'smp-app-type-mismatch': SMP ALG App Type Mismatch; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-retransmit-wrong-control': Call Reply Retransmit Wrong Control; 'call-reply-retransmit-acquired': Call Reply Retransmit Acquired; 'call-reply-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, mismatched-pns-call-id, gre-sessions-created, gre-sessions-freed, no-gre-session-match, smp-sessions-created, smp-sessions-freed, smp-session-creation-failure, extension-creation-failure, ha-sent, ha-rcv, ha-no-mem, ha-conflict, ha-overwrite, ha-call-sent, ha-call-rcv, ha-smp-conflict, ha-smp-in-del-q, smp-app-type-mismatch, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-retransmit-wrong-control, call-reply-retransmit-acquired, call-reply-ext-alloc-failure, smp-client-call-id-mismatch, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

alg_rtsp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_rtsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'streams-created': Streams Created; 'streams-freed': Streams Freed; 'stream-creation-failure': Stream Creation Failures; 'ports-allocated': Stream Client Ports Allocated; 'ports-freed': Stream Client Ports Freed; 'port-allocation-failure': Stream Client Port Allocation Failures; 'unknown-client-port-from-server': Server Replies With Unknown Client Ports; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'no-session-mem': Data Session Creation Failures; 'smp-inserted': SMP Session Inserted; 'smp-removed': SMP Session Removed; 'smp-reused': SMP Session Reused; 'fixed-nat-lid-standby': New Session Fixed NAT LID Standby; 'smp-deleted': New Session SMP Already Deleted; 'control-closed': New Session Closed; 'data-session-exists': New Session Already Exists; 'data-session-creation-failure': New Data Session Creation Failure; 'rtp-reversed': RTP Reverse Creation; 'rtcp-reversed': RTCP Reverse Creation; 'cross-cpu-sent': Cross CPU Sent; 'cross-cpu-rcv': Cross CPU Received; 'cross-cpu-no-session': Cross CPU No Session Found; 'cross-cpu-created': Cross CPU Creation; 'cross-cpu-rcv-failure': Cross CPU Receive Failure; 'data-free-smp-retry-lookup': Data Session Free SMP Retry Lookup; 'data-free-smp-not-found': Data Session Free SMP Not Found; 'ha-streams-sent': HA Streams Sent; 'ha-streams-rcv': HA Streams Received; 'ha-stream-incompatible': HA Incompatible Streams Received; 'ha-stream-exists': HA Stream Already Exists; 'ha-port-allocation-failure': HA Stream Port Allocation Failure; 'ha-data-session-sent': HA Data Session Sent; 'ha-data-session-rcv': HA Data Session Received; 'ha-data-no-smp': HA Data Session SMP Not Found; 'ha-control-closed': HA New Data Control Session Closed; 'ha-data-exists': HA New Data Session Already Exists; 'ha-extension-failure': HA Conn Extension Failure; 'ha-stream-smp-reused': HA SMP Session Reused; 'ha-stream-smp-acquire-failure': HA SMP Session Acquire Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, streams-created, streams-freed, stream-creation-failure, ports-allocated, ports-freed, port-allocation-failure, unknown-client-port-from-server, data-session-

created, data-session-freed, no-session-mem, smp-inserted, smp-removed, smp-reused, fixed-nat-lid-standby, smp-deleted, control-closed, data-session-exists, data-session-creation-failure, rtp-reversed, rtcp-reversed, cross-cpu-sent, cross-cpu-rcv, cross-cpu-no-session, cross-cpu-created, cross-cpu-rcv-failure, data-free-smp-retry-lookup, data-free-smp-not-found, ha-streams-sent, ha-streams-rcv, ha-stream-incompatible, ha-stream-exists, ha-port-allocation-failure, ha-data-session-sent, ha-data-session-rcv, ha-data-no-smp, ha-control-closed, ha-data-exists, ha-extension-failure, ha-stream-smp-reused, ha-stream-smp-acquire-failure, smp-app-type-mismatch

alg_h323

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_h323_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'h225ras-message': H323 H225 RAS Message; 'h225cs-message': H323 H225 Call Signaling Message; 'h245ctl-message': H323 H245 Media Control Message; 'h245-tunneled': H323 H245 Tunnelled Message; 'fast-start': H323 FastStart; 'parse-error': Message Parse Error; 'message-cross-multi-packets': H323 Message Cross Multiple Packets; 'conn-ext-creation-failure': H323 Packet Rewrite Failure; 'rewrite-failure': H323 Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'h245-dynamic-addr-exceed': H323 H245 Dynamic Address Exceed;

Type: string

Supported Values: all, h225ras-message, h225cs-message, h245ctl-message, h245-tunneled, fast-start, parse-error, message-cross-multi-packets, conn-ext-creation-failure, rewrite-failure, tcp-out-of-order-drop, h245-dynamic-addr-exceed

alg_tftp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_tftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions Created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

alg_mgcp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_mgcp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auep': MGCP AUEP; 'aucx': MGCP AUCX; 'crcx': MGCP CRCX; 'dlcx': MGCP DLCX; 'epcf': MGCP EPCF; 'mdcx': MGCP MDCX; 'ntfy': MGCP NTFY; 'rqnt': MGCP RQNT; 'rsip': MGCP RSIP; 'parse-error': MGCP Message Parse Error; 'conn-ext-creation-failure': MGCP Create Connection Extension Failure; 'third-party-sdp': MGCP Third-Party SDP; 'sdp-process-candidate-failure': MGCP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': MGCP Operate SDP Failure; 'sdp-alloc-port-map-success': MGCP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': MGCP Alloc SDP Port Map Failure; 'modify-failure': MGCP Message Modify Failure; 'rewrite-failure': MGCP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop;

Type: string

Supported Values: all, auep, aucx, crcx, dlcx, epcf, mdcx, ntfy, rqnt, rsip, parse-error, conn-ext-creation-failure, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop

inside

Specification	Value
Type	*object*

iplist-list

Type: List

Reference Object: */axapi/v3/cgnv6/fixed-nat/inside/iplist/{inside-ip-list}+{partition}*

ipv4address-list

Type: List

Reference Object: */axapi/v3/cgnv6/fixed-nat/inside/ipv4address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}*

ipv6address-list

Type: List

Reference Object: */axapi/v3/cgnv6/fixed-nat/inside/ipv6address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}*

inside_iplist-list

Specification	Value
Type	*list*
Block object keys	

dest-rule-list

Description Bind destination based Rule-List (Fixed NAT Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-pool-size

Description Configure size of Dynamic pool (Default: 0)

Type: number

Range: 0-64511

Default: 0

inside-ip-list

Description Name of IP List used to specify Inside Users

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

method

Description 'use-all-nat-ips': Use all the NAT IP addresses configured; 'use-least-nat-ips': Use the least number of NAT IP addresses required (default);

Type: string

Supported Values: use-all-nat-ips, use-least-nat-ips

Default: use-least-nat-ips

nat-end-address

Description IPv4 End NAT Address

Type: string

Format: ipv4-address

nat-ip-list

Description Name of IP List used to specify NAT addresses

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nat-netmask

Description NAT Addresses IP Netmask

Type: string

Format: ipv4-netmask-brief

nat-start-address

Description Start NAT Address

Type: string

Format: ipv4-address

offset

Description: offset is a **JSON Block**. Please see below for *inside_iplist-list_offset*

Type: Object

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

ports-per-user

Description Configure Ports per Inside User (ports-per-user)

Type: number

Range: 1-64512

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (Default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-config-template

Description Scaleout service-config template to bind (Scaleout service-config template name)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

session-quota

Description Configure per user quota on sessions

Type: number

Range: 1-2147483647

skip-ports-on-rollover

Description Not using the first block of ports for NAT IPs smaller than the configured offset

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports

Description: usable-nat-ports is a **JSON Block**. Please see below for *inside_iplist-list_usable-nat-ports*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

inside_iplist-list_usable-nat-ports

Specification	Value
Type	*object*

usable-end-port

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-start-port

Description Start Port of Usable NAT Ports

Type: number

Range: 1024-65535

inside_iplist-list_offset

Specification	Value
Type	*object*

numeric-offset

Description Configure a numeric offset to the first NAT IP address

Type: number

Range: 0-1024000

Default: 0

Mutual Exclusion: numeric-offset and random are mutually exclusive

random

Description Randomly choose the first NAT IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: random and numeric-offset are mutually exclusive

inside_ipv4address-list

Specification	Value
Type	*list*
Block object keys	

dest-rule-list

Description Bind destination based Rule-List (Fixed NAT Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-pool-size

Description Configure size of Dynamic pool (Default: 0)

Type: number

Range: 0-64511

Default: 0

inside-end-address

Description IPv4 Inside User End Address

Type: string

Format: ipv4-address

inside-netmask

Description IPv4 Netmask

Type: string

Format: ipv4-netmask-brief

inside-start-address

Description IPv4 Inside User Start Address

Type: string

Format: ipv4-address

method

Description 'use-all-nat-ips': Use all the NAT IP addresses configured; 'use-least-nat-ips': Use the least number of NAT IP addresses required (default);

Type: string

Supported Values: use-all-nat-ips, use-least-nat-ips

Default: use-least-nat-ips

nat-end-address

Description IPv4 End NAT Address

Type: string

Format: ipv4-address

nat-ip-list

Description Name of IP List used to specify NAT addresses

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nat-netmask

Description NAT Addresses IP Netmask

Type: string

Format: ipv4-netmask-brief

nat-start-address

Description Start NAT Address

Type: string

Format: ipv4-address

offset

Description: offset is a **JSON Block**. Please see below for *inside_ipv4address-list_offset*

Type: Object

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

ports-per-user

Description Configure Ports per Inside User (ports-per-user)

Type: number

Range: 1-64512

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (Default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-config-template

Description Scaleout service-config template to bind (Scaleout service-config template name)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

session-quota

Description Configure per user quota on sessions

Type: number

Range: 1-2147483647

skip-ports-on-rollover

Description Not using the first block of ports for NAT IPs smaller than the configured offset

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports

Description: usable-nat-ports is a **JSON Block**. Please see below for *inside_ipv4address-list_usable-nat-ports*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

inside_ipv4address-list_usable-nat-ports

Specification	Value
Type	*object*

usable-end-port

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-start-port

Description Start Port of Usable NAT Ports

Type: number

Range: 1024-65535

inside_ipv4address-list_offset

Specification	Value
Type	*object*

numeric-offset

Description Configure a numeric offset to the first NAT IP address

Type: number

Range: 0-1024000

Default: 0

Mutual Exclusion: numeric-offset and random are mutually exclusive

random

Description Randomly choose the first NAT IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: random and numeric-offset are mutually exclusive

inside_ipv6address-list

Specification	Value
Type	*list*
Block object keys	

dest-rule-list

Description Bind destination based Rule-List (Fixed NAT Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-pool-size

Description Configure size of Dynamic pool (Default: 0)

Type: number

Range: 0-64511

Default: 0

inside-end-address

Description IPv6 Inside User End Address

Type: string

Format: ipv6-address

inside-netmask

Description Inside User IPv6 Netmask

Type: number

Range: 64-128

inside-start-address

Description IPv6 Inside User Start Address

Type: string

Format: ipv6-address

method

Description 'use-all-nat-ips': Use all the NAT IP addresses configured; 'use-least-nat-ips': Use the least number of NAT IP addresses required (default);

Type: string

Supported Values: use-all-nat-ips, use-least-nat-ips

Default: use-least-nat-ips

nat-end-address

Description IPv4 End NAT Address

Type: string

Format: ipv4-address

nat-ip-list

Description Name of IP List used to specify NAT addresses

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nat-netmask

Description NAT Addresses IP Netmask

Type: string

Format: ipv4-netmask-brief

nat-start-address

Description Start NAT Address

Type: string

Format: ipv4-address

offset

Description: offset is a **JSON Block**. Please see below for *inside_ipv6address-list_offset*

Type: Object

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

ports-per-user

Description Configure Ports per Inside User (ports-per-user)

Type: number

Range: 1-64512

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (Default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-config-template

Description Scaleout service-config template to bind (Scaleout service-config template name)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

session-quota

Description Configure per user quota on sessions

Type: number

Range: 1-2147483647

skip-ports-on-rollover

Description Not using the first block of ports for NAT IPs smaller than the configured offset

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports

Description: usable-nat-ports is a **JSON Block**. Please see below for *inside_ipv6address-list_usable-nat-ports*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

inside_ipv6address-list_usable-nat-ports

Specification	Value
Type	*object*

usable-end-port

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-start-port

Description Start Port of Usable NAT Ports

Type: number

Range: 1024-65535

inside_ipv6address-list_offset

Specification	Value
Type	*object*

numeric-offset

Description Configure a numeric offset to the first NAT IP address

Type: number

Range: 0-1024000

Default: 0

Mutual Exclusion: numeric-offset and random are mutually exclusive

random

Description Randomly choose the first NAT IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: random and numeric-offset are mutually exclusive

global

Specification	Value
Type	*object*

create-port-mapping-file

Description Create Port Mapping File

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-mapping-files-count

Description Number of old fixed_nat files to store

Type: number

Range: 1-10

Default: 5

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total-nat-in-use': Total NAT Addresses in-use; 'total-tcp-allocated': Total TCP Ports Allocated; 'total-tcp-freed': Total TCP Ports Freed; 'total-udp-allocated': Total UDP Ports Allocated; 'total-udp-freed': Total UDP Ports Freed; 'total-icmp-allocated': Total ICMP Ports Allocated; 'total-icmp-freed': Total ICMP Ports Freed; 'nat44-data-session-created': NAT44 Data Sessions Created; 'nat44-data-session-freed': NAT44 Data Sessions Freed; 'nat64-data-session-created': NAT64 Data Sessions Created; 'nat64-data-session-freed': NAT64 Data Sessions Freed; 'dslite-data-session-created': DS-Lite Data Sessions Created; 'dslite-data-session-freed': DS-Lite Data Sessions Freed; 'nat-port-unavailable-tcp': TCP NAT Port Unavailable; 'nat-port-unavailable-udp': UDP NAT Port Unavailable; 'nat-port-unavailable-icmp': ICMP NAT Port Unavailable; 'session-user-quota-exceeded': Sessions User Quota Exceeded; 'nat44-tcp-fullcone-created': NAT44 TCP Full-Cone Created; 'nat44-tcp-fullcone-freed': NAT44 TCP Full-Cone Freed; 'nat44-udp-fullcone-created': NAT44 UDP Full-Cone Created; 'nat44-udp-fullcone-freed': NAT44 UDP Full-Cone Freed; 'nat44-udp-alg-fullcone-created': NAT44 UDP ALG Full-Cone Created; 'nat44-udp-alg-fullcone-freed': NAT44 UDP ALG Full-Cone Freed; 'nat64-tcp-fullcone-created': NAT64 TCP Full-Cone Created; 'nat64-tcp-fullcone-freed': NAT64 TCP Full-Cone Freed; 'nat64-udp-fullcone-created': NAT64 UDP Full-Cone Created; 'nat64-udp-fullcone-freed': NAT64 UDP Full-Cone Freed; 'nat64-udp-alg-fullcone-created': NAT64 UDP ALG Full-Cone Created; 'nat64-udp-alg-fullcone-freed': NAT64 UDP ALG Full-Cone Freed; 'dslite-tcp-fullcone-created': DS-Lite TCP Full-Cone Created; 'dslite-tcp-fullcone-freed': DS-Lite TCP Full-Cone Freed; 'dslite-udp-fullcone-created': DS-Lite UDP Full-Cone Created; 'dslite-udp-fullcone-freed': DS-Lite UDP Full-Cone Freed; 'dslite-udp-alg-fullcone-created': DS-Lite UDP ALG Full-Cone Created; 'dslite-udp-alg-fullcone-freed': DS-Lite UDP ALG Full-Cone Freed; 'fullcone-failure': Full-Cone Session Creation Failed; 'nat44-eim-match': NAT44 Endpoint-Independent-Mapping Matched; 'nat64-eim-match': NAT64 Endpoint-Independent-Mapping Matched; 'dslite-eim-match': DS-Lite Endpoint-Independent-Mapping Matched; 'nat44-eif-match': NAT44 Endpoint-Independent-Filtering Matched; 'nat64-eif-match': NAT64 Endpoint-Independent-Filtering Matched; 'dslite-eif-match': DS-Lite Endpoint-Independent-Filtering Matched; 'nat44-inbound-filtered': NAT44 Endpoint-Dependent Filtering Drop; 'nat64-inbound-filtered': NAT64 Endpoint-Dependent Filtering Drop; 'dslite-inbound-filtered': DS-Lite Endpoint-Dependent Filtering Drop; 'nat44-eif-limit-exceeded': NAT44 Endpoint-Independent-Filtering Limit Exceeded; 'nat64-eif-limit-exceeded': NAT64 Endpoint-Independent-Filtering Limit Exceeded; 'dslite-eif-limit-exceeded': DS-Lite Endpoint-Independent-Filtering Limit Exceeded; 'nat44-hairpin': NAT44

Hairpin Session Created; 'nat64-hairpin': NAT64 Hairpin Session Created; 'dslite-hairpin': DS-Lite Hairpin Session Created; 'standby-drop': Fixed NAT LID Standby Drop; 'fixed-nat-fullcone-self-hairpinning-drop': Self-Hairpinning Drop; 'sixrd-drop': Fixed NAT IPv6 in IPv4 Packet Drop; 'dest-rlist-drop': Fixed NAT Dest Rule List Drop; 'dest-rlist-pass-through': Fixed NAT Dest Rule List Pass-Through; 'dest-rlist-snat-drop': Fixed NAT Dest Rules List Source NAT Drop; 'cross-cpu-helper-created': Cross CPU Helper Session Created; 'cross-cpu-helper-free-retry-lookup': Cross CPU Helper Session Free Retry Lookup; 'cross-cpu-helper-free-not-found': Cross CPU Helper Session Free not Found; 'cross-cpu-helper-free': Cross CPU Helper Session Freed; 'cross-cpu-rcv': Cross CPU Helper Packets Received; 'cross-cpu-bad-l3': Cross CPU Unsupported L3; 'cross-cpu-bad-l4': Cross CPU Unsupported L4; 'cross-cpu-no-session': Cross CPU no Session Found; 'cross-cpu-helper-deleted': Cross CPU Helper Session Deleted; 'cross-cpu-helper-fixed-nat-lid-standby': Cross CPU Helper Fixed NAT LID Standby; 'cross-cpu-helper-cpu-mismatch': Cross CPU Helper CPU Mismatch; 'cross-cpu-sent': Cross CPU Helper Packets Sent; 'config-not-found': Fixed NAT Config not Found; 'fullcone-in-del-q': Full-Cone Session in Delete Queue; 'fullcone-overflow': Full-Cone Session Conn-Count Overflow; 'fullcone-inbound-idx-mismatch': Full-Cone Session Fixed NAT LID mismatch; 'fullcone-retry-lookup': Full-cone session retry look-up; 'fullcone-not-found': Full-cone session not found; 'fullcone-overflow-eim': Full-cone EIM Overflow; 'fullcone-overflow-eif': Full-cone EIF Overflow; 'ha-config-mismatch': HA Fixed NAT Config Mismatch; 'ha-user-quota-exceeded': HA User Quota Exceeded; 'ha-fullcone-mismatch': HA Full-Cone Mismatch; 'ha-dnat-mismatch': HA Destination NAT Config Mismatch; 'ha-nat-port-unavailable': HA NAT Port Unavailable; 'ha-fullcone-failure': HA Full-Cone Failure; 'ha-endpoint-indep-map-match': HA Endpoint-Independent-Mapping Match; 'udp-alg-eim-mismatch': UDP ALG Endpoint-Independent Mapping Mismatch; 'udp-alg-no-nat-ip': UDP ALG User-Quota Unknown NAT IP; 'udp-alg-alloc-failure': UDP ALG Port Allocation Failure; 'mtu-exceeded': Packet Exceeded MTU; 'frag': Fragmented Packets; 'frag-icmp': ICMP Packet Too Big Sent; 'periodic-log-msg-alloc': Fixed NAT Periodic Log Msg Allocated; 'periodic-log-msg-free': Fixed NAT Periodic Log Msg Freed; 'disable-log-msg-alloc': Fixed NAT Disable Log Msg Allocated; 'disable-log-msg-free': Fixed NAT Disable Log Msg Freed; 'sip-alg-reuse-contact-fullcone': SIP ALG Reuse Contact Full-cone Session; 'sip-alg-contact-fullcone-mismatch': SIP ALG Contact Full-cone Session Mismatch; 'sip-alg-create-contact-fullcone-failure': SIP ALG Create Contact Full-cone Session Failure; 'sip-alg-single-rtp-fullcone': SIP ALG Single RTP Full-cone Found; 'sip-alg-rtcp-fullcone-mismatch': SIP ALG RTCP Full-cone NAT Port Mismatch; 'sip-alg-reuse-rtp-rtcp-fullcone': SIP ALG Reuse RTP/RTCP Full-cone Session; 'sip-alg-single-rtcp-fullcone': SIP ALG Single RTCP Full-cone Found; 'sip-alg-create-rtp-fullcone-failure': SIP ALG Create RTP Full-cone Session Failure; 'sip-alg-create-rtcp-fullcone-failure': SIP ALG Create RTCP Full-cone Session Failure; 'icmp-out-of-state-uqe-admin-filtered-sent': Total User Quota Exceeded ICMP admin filtered sent; 'icmp-out-of-state-uqe-host-unreachable-sent': Total User Quota Exceeded ICMP host unreachable sent; 'icmp-out-of-state-uqe-dropped': Total User Queue Exceeded ICMP notification dropped; 'nat-esp-ip-conflicts': Fixed NAT ESP IP Conflicts; 'total-tcp-allocated-shadow': Total TCP Ports Allocated; 'total-tcp-freed-shadow': Total TCP Ports Freed; 'total-udp-allocated-shadow': Total UDP Ports Allocated; 'total-udp-freed-shadow': Total UDP Ports Freed; 'total-icmp-allocated-shadow': Total ICMP Ports Allocated; 'total-icmp-freed-shadow': Total ICMP Ports Freed; 'nat44-data-session-created-shadow': NAT44 Data Sessions Created; 'nat44-data-session-freed-shadow': NAT44 Data Sessions Freed; 'nat64-data-session-created-shadow': NAT64 Data Sessions Created; 'nat64-data-session-freed-shadow': NAT64 Data Sessions Freed; 'dslite-data-session-created-shadow': DS-Lite Data Sessions Created; 'dslite-data-session-freed-shadow': DS-Lite Data Sessions Freed; 'nat44-tcp-fullcone-created-shadow': NAT44 TCP Full-Cone Created; 'nat44-tcp-fullcone-freed-shadow': NAT44 TCP Full-Cone Freed; 'nat44-udp-fullcone-created-shadow': NAT44 UDP Full-Cone Created; 'nat44-udp-fullcone-freed-shadow': NAT44 UDP Full-Cone Freed; 'nat44-udp-alg-fullcone-created-shadow': NAT44 UDP ALG Full-Cone Created;

Type: string

Supported Values: all, total-nat-in-use, total-tcp-allocated, total-tcp-freed, total-udp-allocated, total-udp-freed, total-icmp-allocated, total-icmp-freed, nat44-data-session-created, nat44-data-session-freed, nat64-data-session-created, nat64-data-session-freed, dslite-data-session-created, dslite-data-session-freed, nat-port-unavailable-tcp, nat-port-unavailable-udp, nat-port-unavailable-icmp, session-user-quota-exceeded, nat44-tcp-fullcone-created, nat44-tcp-fullcone-freed, nat44-udp-fullcone-created, nat44-udp-fullcone-freed, nat44-udp-alg-fullcone-created, nat44-udp-alg-fullcone-freed, nat64-tcp-fullcone-created, nat64-tcp-fullcone-freed, nat64-udp-fullcone-created, nat64-udp-fullcone-freed, nat64-udp-alg-fullcone-created, nat64-udp-alg-fullcone-freed, dslite-tcp-fullcone-created, dslite-tcp-fullcone-freed, dslite-udp-fullcone-created, dslite-udp-fullcone-freed, dslite-udp-alg-fullcone-created, dslite-udp-alg-fullcone-freed, fullcone-failure, nat44-eim-match, nat64-eim-match, dslite-eim-match, nat44-eif-match, nat64-eif-match, dslite-eif-match, nat44-inbound-filtered, nat64-inbound-filtered, dslite-inbound-filtered, nat44-eif-limit-exceeded, nat64-eif-limit-exceeded, dslite-eif-limit-exceeded, nat44-hairpin, nat64-hairpin, dslite-hairpin, standby-drop, fixed-nat-fullcone-self-hairpinning-drop, sixrd-drop, dest-rlist-drop, dest-rlist-pass-through, dest-rlist-snat-drop, cross-cpu-helper-created, cross-cpu-helper-free-retry-lookup, cross-cpu-helper-free-not-found, cross-cpu-helper-free, cross-cpu-rcv, cross-cpu-bad-l3, cross-cpu-bad-l4, cross-cpu-no-session, cross-cpu-helper-deleted, cross-cpu-helper-fixed-nat-lid-standby, cross-cpu-helper-cpu-mismatch, cross-cpu-sent, config-not-found, fullcone-in-del-q, fullcone-overflow, fullcone-inbound-idx-mismatch, fullcone-retry-lookup, fullcone-not-found, fullcone-overflow-eim, fullcone-overflow-eif, ha-config-mismatch, ha-user-quota-exceeded, ha-fullcone-mismatch, ha-dnat-mismatch, ha-nat-port-unavailable, ha-fullcone-failure, ha-endpoint-indep-map-match, udp-alg-eim-mismatch, udp-alg-no-nat-ip, udp-alg-alloc-failure, mtu-exceeded, frag, frag-icmp, periodic-log-msg-alloc, periodic-log-msg-free, disable-log-msg-alloc, disable-log-msg-free, sip-alg-reuse-contact-fullcone, sip-alg-contact-fullcone-mismatch, sip-alg-create-contact-fullcone-failure, sip-alg-single-rtp-fullcone, sip-alg-rtcp-fullcone-mismatch, sip-alg-reuse-rtp-rtcp-fullcone, sip-alg-single-rtcp-fullcone, sip-alg-create-rtp-fullcone-failure, sip-alg-create-rtcp-fullcone-failure, icmp-out-of-state-uqe-admin-filtered-sent, icmp-out-of-state-uqe-host-unreachable-sent, icmp-out-of-state-uqe-dropped, nat-esp-ip-conflicts, total-tcp-allocated-shadow, total-tcp-freed-shadow, total-udp-allocated-shadow, total-udp-freed-shadow, total-icmp-allocated-shadow, total-icmp-freed-shadow, nat44-data-session-created-shadow, nat44-data-session-freed-shadow, nat64-data-session-created-shadow, nat64-data-session-freed-shadow, dslite-data-session-created-shadow, dslite-data-session-freed-shadow, nat44-tcp-fullcone-created-shadow, nat44-tcp-fullcone-freed-shadow, nat44-udp-fullcone-created-shadow, nat44-udp-fullcone-freed-shadow, nat44-udp-alg-fullcone-created-shadow

counters2

Description 'nat44-udp-alg-fullcone-freed-shadow': NAT44 UDP ALG Full-Cone Freed; 'nat64-tcp-fullcone-created-shadow': NAT64 TCP Full-Cone Created; 'nat64-tcp-fullcone-freed-shadow': NAT64 TCP Full-Cone Freed; 'nat64-udp-fullcone-created-shadow': NAT64 UDP Full-Cone Created; 'nat64-udp-fullcone-freed-shadow': NAT64 UDP Full-Cone Freed; 'nat64-udp-alg-fullcone-created-shadow': NAT64 UDP ALG Full-Cone Created; 'nat64-udp-alg-fullcone-freed-shadow': NAT64 UDP ALG Full-Cone Freed; 'dslite-tcp-fullcone-created-shadow': DS-Lite TCP Full-Cone Created; 'dslite-tcp-fullcone-freed-shadow': DS-Lite TCP Full-Cone Freed; 'dslite-udp-fullcone-created-shadow': DS-Lite UDP Full-Cone Created; 'dslite-udp-fullcone-freed-shadow': DS-Lite UDP Full-Cone Freed; 'dslite-udp-alg-fullcone-created-shadow': DS-Lite UDP ALG Full-Cone Created; 'dslite-udp-alg-fullcone-freed-shadow': DS-Lite UDP ALG Full-Cone Freed; 'h323-alg-reuse-fullcone': H323 ALG Reuse Full-cone Session; 'h323-alg-fullcone-mismatch': H323 ALG Full-cone Session Mismatch; 'h323-alg-create-fullcone-failure': H323 ALG Create Full-cone Session Failure; 'h323-alg-single-rtp-fullcone': H323 ALG Single RTP

Full-cone Found; 'h323-alg-rtcp-fullcone-mismatch': H323 ALG RTCP Full-cone NAT Port Mismatch; 'h323-alg-reuse-rtp-rtcp-fullcone': H323 ALG Reuse RTP/RTCP Full-cone Session; 'h323-alg-single-rtcp-fullcone': H323 ALG Single RTCP Full-cone Found; 'h323-alg-create-rtp-fullcone-failure': H323 ALG Create RTP Full-cone Session Failure; 'h323-alg-create-rtcp-fullcone-failure': H323 ALG Create RTCP Full-cone Session Failure; 'mgcp-alg-reuse-fullcone': MGCP ALG Reuse Full-cone Session; 'mgcp-alg-fullcone-mismatch': MGCP ALG Full-cone Session Mismatch; 'mgcp-alg-create-fullcone-failure': MGCP ALG Create Full-cone Session Failure; 'mgcp-alg-single-rtp-fullcone': MGCP ALG Single RTP Full-cone Found; 'mgcp-alg-rtcp-fullcone-mismatch': MGCP ALG RTCP Full-cone NAT Port Mismatch; 'mgcp-alg-reuse-rtp-rtcp-fullcone': MGCP ALG Reuse RTP/RTCP Full-cone Session; 'mgcp-alg-single-rtcp-fullcone': MGCP ALG Single RTCP Full-cone Found; 'mgcp-alg-create-rtp-fullcone-failure': MGCP ALG Create RTP Full-cone Session Failure; 'mgcp-alg-create-rtcp-fullcone-failure': MGCP ALG Create RTCP Full-cone Session Failure; 'user-unusable-drop': Fixed NAT User Unusable Drop; 'ipv4-user-unusable': Fixed NAT IPv4 User Marked Unusable; 'ipv6-user-unusable': Fixed NAT IPv6 User Marked Unusable; 'ipd-disabled': Fixed NAT IPD disabled; 'dslite_tunnel_frag': IPv4 Fragment DS-Lite Packet; 'total-tcp-overload-acquired': Total TCP ports acquired for port overloading; 'total-udp-overload-acquired': Total UDP ports acquired for port overloading; 'total-tcp-overload-released': Total TCP ports released from port overloading; 'total-udp-overload-released': Total UDP ports released from port overloading; 'total-tcp-alloc-overload': Total TCP ports allocated via overload; 'total-udp-alloc-overload': Total UDP ports allocated via overload; 'total-tcp-free-overload': Total TCP ports freed via overload; 'total-udp-free-overload': Total UDP ports freed via overload; 'port-overload-smp-delete-scheduled': Port overload SMP conn delete scheduled; 'port-overload-smp-mem-allocated': Port overload SMP mem allocated; 'port-overload-out-of-memory': Port overload out of memory; 'port-overload-smp-free': Port overload SMP conn free; 'port-overload-smp-free-no-lid': Port overload SMP conn free no lid; 'port-overload-free-smp-not-found': Port overload free SMP conn not found; 'port-overload-failed': Port overload failed; 'total-tcp-overload-acquired-shadow': Total TCP ports acquired for port overloading shadow; 'total-udp-overload-acquired-shadow': Total UDP ports acquired for port overloading shadow; 'total-tcp-overload-released-shadow': Total TCP ports released from port overloading shadow; 'total-udp-overload-released-shadow': Total UDP ports released from port overloading shadow; 'total-tcp-alloc-overload-shadow': Total TCP allocated via overload shadow; 'total-udp-alloc-overload-shadow': Total UDP allocated via overload shadow; 'total-tcp-free-overload-shadow': Total TCP freed via overload shadow; 'total-udp-free-overload-shadow': Total UDP freed via overload shadow; 'ha-session-user-quota-exceeded': HA Sessions User Quota Exceeded; 'tcp-user-quota-exceeded': TCP User Quota Exceeded; 'udp-user-quota-exceeded': UDP User Quota Exceeded; 'icmp-user-quota-exceeded': ICMP User Quota Exceeded; 'ha-tcp-user-quota-exceeded': HA TCP User Quota Exceeded; 'ha-udp-user-quota-exceeded': HA UDP User Quota Exceeded; 'ha-icmp-user-quota-exceeded': HA ICMP User Quota Exceeded; 'ha-nat-port-unavailable-tcp': HA TCP NAT Port Unavailable; 'ha-nat-port-unavailable-udp': HA UDP NAT Port Unavailable; 'ha-nat-port-unavailable-icmp': HA ICMP NAT Port Unavailable; 'fnat44_fwd_ingress_packets_tcp': Fixed NAT44 Forward Ingress Packets TCP; 'fnat44_fwd_egress_packets_tcp': Fixed NAT44 Forward Egress Packets TCP; 'fnat44_rev_ingress_packets_tcp': Fixed NAT44 Reverse Ingress Packets TCP; 'fnat44_rev_egress_packets_tcp': Fixed NAT44 Reverse Egress Packets TCP; 'fnat44_fwd_ingress_bytes_tcp': Fixed NAT44 Forward Ingress Bytes TCP; 'fnat44_fwd_egress_bytes_tcp': Fixed NAT44 Forward Egress Bytes TCP; 'fnat44_rev_ingress_bytes_tcp': Fixed NAT44 Reverse Ingress Bytes TCP; 'fnat44_rev_egress_bytes_tcp': Fixed NAT44 Reverse Egress Bytes TCP; 'fnat44_fwd_ingress_packets_udp': Fixed NAT44 Forward Ingress Packets UDP; 'fnat44_fwd_egress_packets_udp': Fixed NAT44 Forward Egress Packets UDP; 'fnat44_rev_ingress_packets_udp': Fixed NAT44 Reverse Ingress Packets UDP; 'fnat44_rev_egress_packets_udp': Fixed NAT44 Re-

verse Egress Packets UDP; 'fnat44_fwd_ingress_bytes_udp': Fixed NAT44 Forward Ingress Bytes UDP; 'fnat44_fwd_egress_bytes_udp': Fixed NAT44 Forward Egress Bytes UDP; 'fnat44_rev_ingress_bytes_udp': Fixed NAT44 Reverse Ingress Bytes UDP; 'fnat44_rev_egress_bytes_udp': Fixed NAT44 Reverse Egress Bytes UDP; 'fnat44_fwd_ingress_packets_icmp': Fixed NAT44 Forward Ingress Packets ICMP; 'fnat44_fwd_egress_packets_icmp': Fixed NAT44 Forward Egress Packets ICMP; 'fnat44_rev_ingress_packets_icmp': Fixed NAT44 Reverse Ingress Packets ICMP; 'fnat44_rev_egress_packets_icmp': Fixed NAT44 Reverse Egress Packets ICMP; 'fnat44_fwd_ingress_bytes_icmp': Fixed NAT44 Forward Ingress Bytes ICMP; 'fnat44_fwd_egress_bytes_icmp': Fixed NAT44 Forward Egress Bytes ICMP; 'fnat44_rev_ingress_bytes_icmp': Fixed NAT44 Reverse Ingress Bytes ICMP; 'fnat44_rev_egress_bytes_icmp': Fixed NAT44 Reverse Egress Bytes ICMP; 'fnat44_fwd_ingress_packets_others': Fixed NAT44 Forward Ingress Packets OTHERS; 'fnat44_fwd_egress_packets_others': Fixed NAT44 Forward Egress Packets OTHERS; 'fnat44_rev_ingress_packets_others': Fixed NAT44 Reverse Ingress Packets OTHERS; 'fnat44_rev_egress_packets_others': Fixed NAT44 Reverse Egress Packets OTHERS; 'fnat44_fwd_ingress_bytes_others': Fixed NAT44 Forward Ingress Bytes OTHERS; 'fnat44_fwd_egress_bytes_others': Fixed NAT44 Forward Egress Bytes OTHERS; 'fnat44_rev_ingress_bytes_others': Fixed NAT44 Reverse Ingress Bytes OTHERS; 'fnat44_rev_egress_bytes_others': Fixed NAT44 Reverse Egress Bytes OTHERS; 'fnat44_fwd_ingress_pkt_size_range1': Fixed NAT44 Forward Ingress Packet size between 0 and 200; 'fnat44_fwd_ingress_pkt_size_range2': Fixed NAT44 Forward Ingress Packet size between 201 and 800; 'fnat44_fwd_ingress_pkt_size_range3': Fixed NAT44 Forward Ingress Packet size between 801 and 1550; 'fnat44_fwd_ingress_pkt_size_range4': Fixed NAT44 Forward Ingress Packet size between 1551 and 9000; 'fnat44_fwd_egress_pkt_size_range1': Fixed NAT44 Forward Egress Packet size between 0 and 200;

Type: string

Supported Values: nat44-udp-alg-fullcone-freed-shadow, nat64-tcp-fullcone-created-shadow, nat64-tcp-fullcone-freed-shadow, nat64-udp-fullcone-created-shadow, nat64-udp-fullcone-freed-shadow, nat64-udp-alg-fullcone-created-shadow, nat64-udp-alg-fullcone-freed-shadow, dslite-tcp-fullcone-created-shadow, dslite-tcp-fullcone-freed-shadow, dslite-udp-fullcone-created-shadow, dslite-udp-fullcone-freed-shadow, dslite-udp-alg-fullcone-created-shadow, dslite-udp-alg-fullcone-freed-shadow, h323-alg-reuse-fullcone, h323-alg-fullcone-mismatch, h323-alg-create-fullcone-failure, h323-alg-single-rtp-fullcone, h323-alg-rtcp-fullcone-mismatch, h323-alg-reuse-rtp-rtcp-fullcone, h323-alg-single-rtcp-fullcone, h323-alg-create-rtp-fullcone-failure, h323-alg-create-rtcp-fullcone-failure, mgcp-alg-reuse-fullcone, mgcp-alg-fullcone-mismatch, mgcp-alg-create-fullcone-failure, mgcp-alg-single-rtp-fullcone, mgcp-alg-rtcp-fullcone-mismatch, mgcp-alg-reuse-rtp-rtcp-fullcone, mgcp-alg-single-rtcp-fullcone, mgcp-alg-create-rtp-fullcone-failure, mgcp-alg-create-rtcp-fullcone-failure, user-unusable-drop, ipv4-user-unusable, ipv6-user-unusable, ipd-disabled, dslite_tunnel_frag, total-tcp-overload-acquired, total-udp-overload-acquired, total-tcp-overload-released, total-udp-overload-released, total-tcp-alloc-overload, total-udp-alloc-overload, total-tcp-free-overload, total-udp-free-overload, port-overload-smp-delete-scheduled, port-overload-smp-mem-allocated, port-overload-out-of-memory, port-overload-smp-free, port-overload-smp-free-no-lid, port-overload-free-smp-not-found, port-overload-failed, total-tcp-overload-acquired-shadow, total-udp-overload-acquired-shadow, total-tcp-overload-released-shadow, total-udp-overload-released-shadow, total-tcp-alloc-overload-shadow, total-udp-alloc-overload-shadow, total-tcp-free-overload-shadow, total-udp-free-overload-shadow, ha-session-user-quota-exceeded, tcp-user-quota-exceeded, udp-user-quota-exceeded, icmp-user-quota-exceeded, ha-tcp-user-quota-exceeded, ha-udp-user-quota-exceeded, ha-icmp-user-quota-exceeded, ha-nat-port-unavailable-tcp, ha-nat-port-unavailable-udp, ha-nat-port-unavailable-icmp, fnat44_fwd_ingress_packets_tcp, fnat44_fwd_egress_packets_tcp, fnat44_rev_ingress_packets_tcp, fnat44_rev_egress_packets_tcp,

fnat44_fwd_ingress_bytes_tcp, fnat44_fwd_egress_bytes_tcp, fnat44_rev_ingress_bytes_tcp, fnat44_rev_egress_bytes_tcp, fnat44_fwd_ingress_packets_udp, fnat44_fwd_egress_packets_udp, fnat44_rev_ingress_packets_udp, fnat44_rev_egress_packets_udp, fnat44_fwd_ingress_bytes_udp, fnat44_fwd_egress_bytes_udp, fnat44_rev_ingress_bytes_udp, fnat44_rev_egress_bytes_udp, fnat44_fwd_ingress_packets_icmp, fnat44_fwd_egress_packets_icmp, fnat44_rev_ingress_packets_icmp, fnat44_rev_egress_packets_icmp, fnat44_fwd_ingress_bytes_icmp, fnat44_fwd_egress_bytes_icmp, fnat44_rev_ingress_bytes_icmp, fnat44_rev_egress_bytes_icmp, fnat44_fwd_ingress_packets_others, fnat44_fwd_egress_packets_others, fnat44_rev_ingress_packets_others, fnat44_rev_egress_packets_others, fnat44_fwd_ingress_bytes_others, fnat44_fwd_egress_bytes_others, fnat44_rev_ingress_bytes_others, fnat44_rev_egress_bytes_others, fnat44_fwd_ingress_pkt_size_range1, fnat44_fwd_ingress_pkt_size_range2, fnat44_fwd_ingress_pkt_size_range3, fnat44_fwd_ingress_pkt_size_range4, fnat44_fwd_egress_pkt_size_range1

counters3

Description 'fnat44_fwd_egress_pkt_size_range2': Fixed NAT44 Forward Egress Packet size between 201 and 800; 'fnat44_fwd_egress_pkt_size_range3': Fixed NAT44 Forward Egress Packet size between 801 and 1550; 'fnat44_fwd_egress_pkt_size_range4': Fixed NAT44 Forward Egress Packet size between 1551 and 9000; 'fnat44_rev_ingress_pkt_size_range1': Fixed NAT44 Reverse Ingress Packet size between 0 and 200; 'fnat44_rev_ingress_pkt_size_range2': Fixed NAT44 Reverse Ingress Packet size between 201 and 800; 'fnat44_rev_ingress_pkt_size_range3': Fixed NAT44 Reverse Ingress Packet size between 801 and 1550; 'fnat44_rev_ingress_pkt_size_range4': Fixed NAT44 Reverse Ingress Packet size between 1551 and 9000; 'fnat44_rev_egress_pkt_size_range1': Fixed NAT44 Reverse Egress Packet size between 0 and 200; 'fnat44_rev_egress_pkt_size_range2': Fixed NAT44 Reverse Egress Packet size between 201 and 800; 'fnat44_rev_egress_pkt_size_range3': Fixed NAT44 Reverse Egress Packet size between 801 and 1550; 'fnat44_rev_egress_pkt_size_range4': Fixed NAT44 Reverse Egress Packet size between 1551 and 9000; 'fnat64_fwd_ingress_packets_tcp': Fixed NAT64 Forward Ingress Packets TCP; 'fnat64_fwd_egress_packets_tcp': Fixed NAT64 Forward Egress Packets TCP; 'fnat64_rev_ingress_packets_tcp': Fixed NAT64 Reverse Ingress Packets TCP; 'fnat64_rev_egress_packets_tcp': Fixed NAT64 Reverse Egress Packets TCP; 'fnat64_fwd_ingress_bytes_tcp': Fixed NAT64 Forward Ingress Bytes TCP; 'fnat64_fwd_egress_bytes_tcp': Fixed NAT64 Forward Egress Bytes TCP; 'fnat64_rev_ingress_bytes_tcp': Fixed NAT64 Reverse Ingress Bytes TCP; 'fnat64_rev_egress_bytes_tcp': Fixed NAT64 Reverse Egress Bytes TCP; 'fnat64_fwd_ingress_packets_udp': Fixed NAT64 Forward Ingress Packets UDP; 'fnat64_fwd_egress_packets_udp': Fixed NAT64 Forward Egress Packets UDP; 'fnat64_rev_ingress_packets_udp': Fixed NAT64 Reverse Ingress Packets UDP; 'fnat64_rev_egress_packets_udp': Fixed NAT64 Reverse Egress Packets UDP; 'fnat64_fwd_ingress_bytes_udp': Fixed NAT64 Forward Ingress Bytes UDP; 'fnat64_fwd_egress_bytes_udp': Fixed NAT64 Forward Egress Bytes UDP; 'fnat64_rev_ingress_bytes_udp': Fixed NAT64 Reverse Ingress Bytes UDP; 'fnat64_rev_egress_bytes_udp': Fixed NAT64 Reverse Egress Bytes UDP; 'fnat64_fwd_ingress_packets_icmp': Fixed NAT64 Forward Ingress Packets ICMP; 'fnat64_fwd_egress_packets_icmp': Fixed NAT64 Forward Egress Packets ICMP; 'fnat64_rev_ingress_packets_icmp': Fixed NAT64 Reverse Ingress Packets ICMP; 'fnat64_rev_egress_packets_icmp': Fixed NAT64 Reverse Egress Packets ICMP; 'fnat64_fwd_ingress_bytes_icmp': Fixed NAT64 Forward Ingress Bytes ICMP; 'fnat64_fwd_egress_bytes_icmp': Fixed NAT64 Forward Egress Bytes ICMP; 'fnat64_rev_ingress_bytes_icmp': Fixed NAT64 Reverse Ingress Bytes

ICMP; 'fnat64_rev_egress_bytes_icmp': Fixed NAT64 Reverse Egress Bytes ICMP; 'fnat64_fwd_ingress_packets_others': Fixed NAT64 Forward Ingress Packets OTHERS; 'fnat64_fwd_egress_packets_others': Fixed NAT64 Forward Egress Packets OTHERS; 'fnat64_rev_ingress_packets_others': Fixed NAT64 Reverse Ingress Packets OTHERS; 'fnat64_rev_egress_packets_others': Fixed NAT64 Reverse Egress Packets OTHERS; 'fnat64_fwd_ingress_bytes_others': Fixed NAT64 Forward Ingress Bytes OTHERS; 'fnat64_fwd_egress_bytes_others': Fixed NAT64 Forward Egress Bytes OTHERS; 'fnat64_rev_ingress_bytes_others': Fixed NAT64 Reverse Ingress Bytes OTHERS; 'fnat64_rev_egress_bytes_others': Fixed NAT64 Reverse Egress Bytes OTHERS; 'fnat64_fwd_ingress_pkt_size_range1': Fixed NAT64 Forward Ingress Packet size between 0 and 200; 'fnat64_fwd_ingress_pkt_size_range2': Fixed NAT64 Forward Ingress Packet size between 201 and 800; 'fnat64_fwd_ingress_pkt_size_range3': Fixed NAT64 Forward Ingress Packet size between 801 and 1550; 'fnat64_fwd_ingress_pkt_size_range4': Fixed NAT64 Forward Ingress Packet size between 1551 and 9000; 'fnat64_fwd_egress_pkt_size_range1': Fixed NAT64 Forward Egress Packet size between 0 and 200; 'fnat64_fwd_egress_pkt_size_range2': Fixed NAT64 Forward Egress Packet size between 201 and 800; 'fnat64_fwd_egress_pkt_size_range3': Fixed NAT64 Forward Egress Packet size between 801 and 1550; 'fnat64_fwd_egress_pkt_size_range4': Fixed NAT64 Forward Egress Packet size between 1551 and 9000; 'fnat64_rev_ingress_pkt_size_range1': Fixed NAT64 Reverse Ingress Packet size between 0 and 200; 'fnat64_rev_ingress_pkt_size_range2': Fixed NAT64 Reverse Ingress Packet size between 201 and 800; 'fnat64_rev_ingress_pkt_size_range3': Fixed NAT64 Reverse Ingress Packet size between 801 and 1550; 'fnat64_rev_ingress_pkt_size_range4': Fixed NAT64 Reverse Ingress Packet size between 1551 and 9000; 'fnat64_rev_egress_pkt_size_range1': Fixed NAT64 Reverse Egress Packet size between 0 and 200; 'fnat64_rev_egress_pkt_size_range2': Fixed NAT64 Reverse Egress Packet size between 201 and 800; 'fnat64_rev_egress_pkt_size_range3': Fixed NAT64 Reverse Egress Packet size between 801 and 1550; 'fnat64_rev_egress_pkt_size_range4': Fixed NAT64 Reverse Egress Packet size between 1551 and 9000; 'fnatdslite_fwd_ingress_packets_tcp': Fixed DS-Lite Forward Ingress Packets TCP; 'fnatdslite_fwd_egress_packets_tcp': Fixed DS-Lite Forward Egress Packets TCP; 'fnatdslite_rev_ingress_packets_tcp': Fixed DS-Lite Reverse Ingress Packets TCP; 'fnatdslite_rev_egress_packets_tcp': Fixed DS-Lite Reverse Egress Packets TCP; 'fnatdslite_fwd_ingress_bytes_tcp': Fixed DS-Lite Forward Ingress Bytes TCP; 'fnatdslite_fwd_egress_bytes_tcp': Fixed DS-Lite Forward Egress Bytes TCP; 'fnatdslite_rev_ingress_bytes_tcp': Fixed DS-Lite Reverse Ingress Bytes TCP; 'fnatdslite_rev_egress_bytes_tcp': Fixed DS-Lite Reverse Egress Bytes TCP; 'fnatdslite_fwd_ingress_packets_udp': Fixed DS-Lite Forward Ingress Packets UDP; 'fnatdslite_fwd_egress_packets_udp': Fixed DS-Lite Forward Egress Packets UDP; 'fnatdslite_rev_ingress_packets_udp': Fixed DS-Lite Reverse Ingress Packets UDP; 'fnatdslite_rev_egress_packets_udp': Fixed DS-Lite Reverse Egress Packets UDP; 'fnatdslite_fwd_ingress_bytes_udp': Fixed DS-Lite Forward Ingress Bytes UDP; 'fnatdslite_fwd_egress_bytes_udp': Fixed DS-Lite Forward Egress Bytes UDP; 'fnatdslite_rev_ingress_bytes_udp': Fixed DS-Lite Reverse Ingress Bytes UDP; 'fnatdslite_rev_egress_bytes_udp': Fixed DS-Lite Reverse Egress Bytes UDP; 'fnatdslite_fwd_ingress_packets_icmp': Fixed DS-Lite Forward Ingress Packets ICMP; 'fnatdslite_fwd_egress_packets_icmp': Fixed DS-Lite Forward Egress Packets ICMP; 'fnatdslite_rev_ingress_packets_icmp': Fixed DS-Lite Reverse Ingress Packets ICMP; 'fnatdslite_rev_egress_packets_icmp': Fixed DS-Lite Reverse Egress Packets ICMP; 'fnatdslite_fwd_ingress_bytes_icmp': Fixed DS-Lite Forward Ingress Bytes ICMP; 'fnatdslite_fwd_egress_bytes_icmp': Fixed DS-Lite Forward Egress Bytes ICMP; 'fnatdslite_rev_ingress_bytes_icmp': Fixed DS-Lite Reverse Ingress Bytes ICMP; 'fnatdslite_rev_egress_bytes_icmp': Fixed DS-Lite Reverse Egress Bytes ICMP; 'fnatdslite_fwd_ingress_packets_others': Fixed DS-Lite Forward Ingress Packets OTHERS; 'fnatdslite_fwd_egress_packets_others': Fixed DS-Lite Forward Egress Packets OTHERS; 'fnatdslite_rev_ingress_packets_others': Fixed DS-Lite Reverse Ingress Packets OTHERS;

'fnatdslite_rev_egress_packets_others': Fixed DS-Lite Reverse Egress Packets OTHERS; 'fnatdslite_fwd_ingress_bytes_others': Fixed DS-Lite Forward Ingress Bytes OTHERS; 'fnatdslite_fwd_egress_bytes_others': Fixed DS-Lite Forward Egress Bytes OTHERS; 'fnatdslite_rev_ingress_bytes_others': Fixed DS-Lite Reverse Ingress Bytes OTHERS; 'fnatdslite_rev_egress_bytes_others': Fixed DS-Lite Reverse Egress Bytes OTHERS; 'fnatdslite_fwd_ingress_pkt_size_range1': Fixed DS-Lite Forward Ingress Packet size between 0 and 200;

Type: string

Supported Values: fnat44_fwd_egress_pkt_size_range2, fnat44_fwd_egress_pkt_size_range3, fnat44_fwd_egress_pkt_size_range4, fnat44_rev_ingress_pkt_size_range1, fnat44_rev_ingress_pkt_size_range2, fnat44_rev_ingress_pkt_size_range3, fnat44_rev_ingress_pkt_size_range4, fnat44_rev_egress_pkt_size_range1, fnat44_rev_egress_pkt_size_range2, fnat44_rev_egress_pkt_size_range3, fnat44_rev_egress_pkt_size_range4, fnat64_fwd_ingress_packets_tcp, fnat64_fwd_egress_packets_tcp, fnat64_rev_ingress_packets_tcp, fnat64_rev_egress_packets_tcp, fnat64_fwd_ingress_bytes_tcp, fnat64_fwd_egress_bytes_tcp, fnat64_rev_ingress_bytes_tcp, fnat64_rev_egress_bytes_tcp, fnat64_fwd_ingress_packets_udp, fnat64_fwd_egress_packets_udp, fnat64_rev_ingress_packets_udp, fnat64_rev_egress_packets_udp, fnat64_fwd_ingress_bytes_udp, fnat64_fwd_egress_bytes_udp, fnat64_rev_ingress_bytes_udp, fnat64_rev_egress_bytes_udp, fnat64_fwd_ingress_packets_icmp, fnat64_fwd_egress_packets_icmp, fnat64_rev_ingress_packets_icmp, fnat64_rev_egress_packets_icmp, fnat64_fwd_ingress_bytes_icmp, fnat64_fwd_egress_bytes_icmp, fnat64_rev_ingress_bytes_icmp, fnat64_rev_egress_bytes_icmp, fnat64_fwd_ingress_packets_others, fnat64_fwd_egress_packets_others, fnat64_rev_ingress_packets_others, fnat64_rev_egress_packets_others, fnat64_fwd_ingress_bytes_others, fnat64_fwd_egress_bytes_others, fnat64_rev_ingress_bytes_others, fnat64_rev_egress_bytes_others, fnat64_fwd_ingress_pkt_size_range1, fnat64_fwd_ingress_pkt_size_range2, fnat64_fwd_ingress_pkt_size_range3, fnat64_fwd_ingress_pkt_size_range4, fnat64_fwd_egress_pkt_size_range1, fnat64_fwd_egress_pkt_size_range2, fnat64_fwd_egress_pkt_size_range3, fnat64_fwd_egress_pkt_size_range4, fnat64_rev_ingress_pkt_size_range1, fnat64_rev_ingress_pkt_size_range2, fnat64_rev_ingress_pkt_size_range3, fnat64_rev_ingress_pkt_size_range4, fnat64_rev_egress_pkt_size_range1, fnat64_rev_egress_pkt_size_range2, fnat64_rev_egress_pkt_size_range3, fnat64_rev_egress_pkt_size_range4, fnatdslite_fwd_ingress_packets_tcp, fnatdslite_fwd_egress_packets_tcp, fnatdslite_rev_ingress_packets_tcp, fnatdslite_rev_egress_packets_tcp, fnatdslite_fwd_ingress_bytes_tcp, fnatdslite_fwd_egress_bytes_tcp, fnatdslite_rev_ingress_bytes_tcp, fnatdslite_rev_egress_bytes_tcp, fnatdslite_fwd_ingress_packets_udp, fnatdslite_fwd_egress_packets_udp, fnatdslite_rev_ingress_packets_udp, fnatdslite_rev_egress_packets_udp, fnatdslite_fwd_ingress_bytes_udp, fnatdslite_fwd_egress_bytes_udp, fnatdslite_rev_ingress_bytes_udp, fnatdslite_rev_egress_bytes_udp, fnatdslite_fwd_ingress_packets_icmp, fnatdslite_fwd_egress_packets_icmp, fnatdslite_rev_ingress_packets_icmp, fnatdslite_rev_egress_packets_icmp, fnatdslite_fwd_ingress_bytes_icmp, fnatdslite_fwd_egress_bytes_icmp, fnatdslite_rev_ingress_bytes_icmp, fnatdslite_rev_egress_bytes_icmp, fnatdslite_fwd_ingress_packets_others, fnatdslite_fwd_egress_packets_others, fnatdslite_rev_ingress_packets_others, fnatdslite_rev_egress_packets_others, fnatdslite_fwd_ingress_bytes_others, fnatdslite_fwd_egress_bytes_others, fnatdslite_rev_ingress_bytes_others, fnatdslite_rev_egress_bytes_others, fnatd-

slite_fwd_ingress_pkt_size_range1

counters4

Description 'fnatdslite_fwd_ingress_pkt_size_range2': Fixed DS-Lite Forward Ingress Packet size between 201 and 800; 'fnatdslite_fwd_ingress_pkt_size_range3': Fixed DS-Lite Forward Ingress Packet size between 801 and 1550; 'fnatdslite_fwd_ingress_pkt_size_range4': Fixed DS-Lite Forward Ingress Packet size between 1551 and 9000; 'fnatdslite_fwd_egress_pkt_size_range1': Fixed DS-Lite Forward Egress Packet size between 0 and 200; 'fnatdslite_fwd_egress_pkt_size_range2': Fixed DS-Lite Forward Egress Packet size between 201 and 800; 'fnatdslite_fwd_egress_pkt_size_range3': Fixed DS-Lite Forward Egress Packet size between 801 and 1550; 'fnatdslite_fwd_egress_pkt_size_range4': Fixed DS-Lite Forward Egress Packet size between 1551 and 9000; 'fnatdslite_rev_ingress_pkt_size_range1': Fixed DS-Lite Reverse Ingress Packet size between 0 and 200; 'fnatdslite_rev_ingress_pkt_size_range2': Fixed DS-Lite Reverse Ingress Packet size between 201 and 800; 'fnatdslite_rev_ingress_pkt_size_range3': Fixed DS-Lite Reverse Ingress Packet size between 801 and 1550; 'fnatdslite_rev_ingress_pkt_size_range4': Fixed DS-Lite Reverse Ingress Packet size between 1551 and 9000; 'fnatdslite_rev_egress_pkt_size_range1': Fixed DS-Lite Reverse Egress Packet size between 0 and 200; 'fnatdslite_rev_egress_pkt_size_range2': Fixed DS-Lite Reverse Egress Packet size between 201 and 800; 'fnatdslite_rev_egress_pkt_size_range3': Fixed DS-Lite Reverse Egress Packet size between 801 and 1550; 'fnatdslite_rev_egress_pkt_size_range4': Fixed DS-Lite Reverse Egress Packet size between 1551 and 9000; 'active-subscriber-added': Active Subscriber Added; 'active-subscriber-removed': Active Subscriber Removed; 'config-not-found-in-ctx': Fixed NAT Config Pointer Not Found in MY_CTX;

Type: string

Supported Values: fnatdslite_fwd_ingress_pkt_size_range2, fnatdslite_fwd_ingress_pkt_size_range3, fnatdslite_fwd_ingress_pkt_size_range4, fnatdslite_fwd_egress_pkt_size_range1, fnatdslite_fwd_egress_pkt_size_range2, fnatdslite_fwd_egress_pkt_size_range3, fnatdslite_fwd_egress_pkt_size_range4, fnatdslite_rev_ingress_pkt_size_range1, fnatdslite_rev_ingress_pkt_size_range2, fnatdslite_rev_ingress_pkt_size_range3, fnatdslite_rev_ingress_pkt_size_range4, fnatdslite_rev_egress_pkt_size_range1, fnatdslite_rev_egress_pkt_size_range2, fnatdslite_rev_egress_pkt_size_range3, fnatdslite_rev_egress_pkt_size_range4, active-subscriber-added, active-subscriber-removed, config-not-found-in-ctx

user-quota

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detail

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

histogram

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

disabled-config

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

hw-accelerate

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

hw-accelerate_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'entry-create': HW Entries Created; 'entry-create-failure': HW Entry Creation Failed; 'entry-create-fail-server-down': HW Entry Creation Failed - server down; 'entry-create-fail-max-entry': HW Entry Creation Failed - max entries exceeded; 'entry-free': HW Entries Freed; 'entry-free-opp-entry': HW Entries Freed - opposite tuple entry aged-out; 'entry-free-no-hw-prog': HW Entry Freed - no HW prog; 'entry-free-no-conn': HW Entry Freed - no matched conn; 'entry-free-no-sw-entry': HW Entry Freed - no software entry; 'entry-counter': HW Entries Count; 'entry-age-out': HW Entries Aged Out; 'entry-age-out-idle': HW Entries Aged Out - idle timeout; 'entry-age-out-tcp-fin': HW Entries Aged Out - TCP FIN; 'entry-age-out-tcp-rst': HW Entries Aged Out - TCP RST; 'entry-age-out-invalid-dst': HW Entries Aged Out - invalid dst; 'entry-force-hw-invalidate': HW Entries Force HW Invalidate; 'entry-invalidate-server-down': HW Entries Invalidate due to server down; 'tcam-create': TCAM Flows Created; 'tcam-free': TCAM Flows Freed; 'tcam-counter': TCAM Flow Count;

Type: string

Supported Values: all, entry-create, entry-create-failure, entry-create-fail-server-down, entry-create-fail-max-entry, entry-free, entry-free-opp-entry, entry-free-no-hw-prog, entry-free-no-conn, entry-free-no-sw-entry, entry-counter, entry-age-out, entry-age-out-idle, entry-age-out-tcp-fin, entry-age-out-tcp-rst, entry-age-out-invalid-dst, entry-force-hw-invalidate, entry-invalidate-server-down, tcam-create, tcam-free, tcam-counter

disable

Specification	Value
Type	*object*

clear-session

Description Clear all sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

inside-end-v4address

Description IPv4 Inside User End Address

Type: string

Format: ipv4-address

inside-end-v6address

Description IPv6 Inside User End Address

Type: string

Format: ipv6-address

inside-start-v4address

Description IPv4 Inside User Start Address

Type: string

Format: ipv4-address

inside-start-v6address

Description IPv6 Inside User Start Address

Type: string

Format: ipv6-address

ip-list

Description Name of IP List used to specify Inside Users

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

v4-netmask

Description IPv4 Netmask

Type: string

Format: ipv4-netmask-brief

v6-netmask

Description Inside User IPv6 Netmask

Type: number

Range: 64-128

port-mapping-files

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

per-instance

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.40 cgnv6 fixed-nat alg

Change Fixed NAT ALG Settings

alg Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	alg
Element URI	/axapi/v3/cgnv6/fixed-nat/alg
Element Attributes	alg_attributes
Partition Visibility	shared
Schema	`alg schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg

alg_attributes

alg attributes

esp

Description: esp is a **JSON Block**. Please see below for *esp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/esp*

ftp

Description: ftp is a **JSON Block**. Please see below for *ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/ftp*

h323

Description: h323 is a **JSON Block**. Please see below for *h323*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/h323*

mgcp

Description: mgcp is a **JSON Block**. Please see below for *mgcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/mgcp*

pptp

Description: pptp is a **JSON Block**. Please see below for *pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/pptp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/fixed-nat/alg/tftp*

ftp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'port-requests': PORT Requests From Client; 'eprt-requests': EPRT Requests From Client; 'lprt-requests': LPRT Requests From Client; 'pasv-replies': PASV Replies From Server; 'epsv-replies': EPSV Replies From Server; 'lpsv-replies': LPSV Replies From Server; 'port-retransmits': Port Mode Request Retransmits; 'pasv-retransmits': Passive Mode Reply Retransmits; 'port-helper-created': Port Mode Helper Created; 'pasv-helper-created':

Passive Mode Helper Created; 'port-helper-freed': Port Mode Helper Freed; 'pasv-helper-freed': Passive Mode Helper Freed; 'port-helper-unused': Port Mode Helper Unused; 'pasv-helper-unused': Passive Mode Helper Unused; 'port-helper-creation-failure': Port Helper Creation Failure; 'pasv-helper-creation-failure': Passive Helper Creation Failure; 'get-conn-ext-failure': Get Conn Extension Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, port-requests, eprt-requests, lprt-requests, pasv-replies, epsv-replies, lpsv-replies, port-retransmits, pasv-retransmits, port-helper-created, pasv-helper-created, port-helper-freed, pasv-helper-freed, port-helper-unused, pasv-helper-unused, port-helper-creation-failure, pasv-helper-creation-failure, get-conn-ext-failure, smp-app-type-mismatch

sip

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sip_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'method-register': SIP Method REGISTER; 'method-invite': SIP Method INVITE; 'method-ack': SIP Method ACK; 'method-cancel': SIP Method CANCEL; 'method-bye': SIP Method BYE; 'method-options': SIP Method OPTIONS; 'method-prack': SIP Method PRACK; 'method-subscribe': SIP Method SUBSCRIBE; 'method-notify': SIP Method NOTIFY; 'method-publish': SIP Method PUBLISH; 'method-info': SIP Method INFO; 'method-refer': SIP Method REFER; 'method-message': SIP Method MESSAGE; 'method-update': SIP Method UPDATE; 'method-unknown': SIP Method UNKNOWN; 'parse-error': SIP Message Parse Error; 'req-uri-op-failrue': SIP Operate Request Uri Failure; 'via-hdr-op-failrue': SIP Operate Via Header Failure; 'contact-hdr-op-failrue': SIP Operate Contact Header Failure; 'from-hdr-op-failrue': SIP Operate From Header Failure; 'to-hdr-op-failrue': SIP Operate To Header Failure; 'route-hdr-op-failrue': SIP Operate Route Header Failure; 'record-route-hdr-op-failrue': SIP Operate Record-Route Header

Failure; 'content-length-hdr-op-failrue': SIP Operate Content-Length Failure; 'third-party-registration': SIP Third-Party Registration; 'conn-ext-creation-failure': SIP Create Connection Extension Failure; 'alloc-contact-port-failure': SIP Alloc Contact Port Failure; 'outside-contact-port-mismatch': SIP Outside Contact Port Mismatch NAT Port; 'inside-contact-port-mismatch': SIP Inside Contact Port Mismatch; 'third-party-sdp': SIP Third-Party SDP; 'sdp-process-candidate-failure': SIP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': SIP Operate SDP Failure; 'sdp-alloc-port-map-success': SIP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': SIP Alloc SDP Port Map Failure; 'modify-failure': SIP Message Modify Failure; 'rewrite-failure': SIP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'helper-found': SMP Helper Conn Found; 'helper-created': SMP Helper Conn Created; 'helper-deleted': SMP Helper Conn Already Deleted; 'helper-freed': SMP Helper Conn Freed; 'helper-failure': SMP Helper Failure;

Type: string

Supported Values: all, method-register, method-invite, method-ack, method-cancel, method-bye, method-options, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error, req-uri-op-failrue, via-hdr-op-failrue, contact-hdr-op-failrue, from-hdr-op-failrue, to-hdr-op-failrue, route-hdr-op-failrue, record-route-hdr-op-failrue, content-length-hdr-op-failrue, third-party-registration, conn-ext-creation-failure, alloc-contact-port-failure, outside-contact-port-mismatch, inside-contact-port-mismatch, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop, smp-conn-alloc-failure, helper-found, helper-created, helper-deleted, helper-freed, helper-failure

esp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

esp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'placeholder-debug': Placeholder Debug;

Type: string

Supported Values: all, session-created, placeholder-debug

pptp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pptp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'mismatched-pns-call-id': Mismatched PNS Call ID; 'gre-sessions-created': GRE Sessions Created; 'gre-sessions-freed': GRE Sessions Freed; 'no-gre-session-match': No Matching GRE Session; 'smp-sessions-created': SMP Sessions Created; 'smp-sessions-freed': SMP Sessions Freed; 'smp-session-creation-failure': SMP Session Creation Failures; 'extension-creation-failure': Extension Creation Failures; 'ha-sent': HA Info Sent; 'ha-rcv': HA Info Received; 'ha-no-mem': HA Memory Allocation Failure; 'ha-conflict': HA Call ID Conflicts; 'ha-overwrite': HA Call ID Overwrites; 'ha-call-sent': HA Call Sent; 'ha-call-rcv': HA Call Received; 'ha-smp-conflict': HA SMP Conflicts; 'ha-smp-in-del-q': HA SMP Deleted; 'smp-app-type-mismatch': SMP ALG App Type Mismatch; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request

Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-retransmit-wrong-control': Call Reply Retransmit Wrong Control; 'call-reply-retransmit-acquired': Call Reply Retransmit Acquired; 'call-reply-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, mismatched-pns-call-id, gre-sessions-created, gre-sessions-freed, no-gre-session-match, smp-sessions-created, smp-sessions-freed, smp-session-creation-failure, extension-creation-failure, ha-sent, ha-rcv, ha-no-mem, ha-conflict, ha-overwrite, ha-call-sent, ha-call-rcv, ha-smp-conflict, ha-smp-in-del-q, smp-app-type-mismatch, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-retransmit-wrong-control, call-reply-retransmit-acquired, call-reply-ext-alloc-failure, smp-client-call-id-mismatch, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

rtsp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rtsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'streams-created': Streams Created; 'streams-freed': Streams Freed; 'stream-creation-failure': Stream Creation Failures; 'ports-allocated': Stream Client Ports Allocated; 'ports-freed': Stream Client Ports Freed; 'port-allocation-failure': Stream Client Port Allocation Failures; 'unknown-client-port-from-server': Server Replies With Unknown Client Ports; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'no-session-mem': Data Session Creation Failures; 'smp-inserted': SMP Session Inserted; 'smp-removed': SMP Session Removed; 'smp-reused': SMP Session Reused; 'fixed-nat-lid-standby': New Session Fixed NAT LID Standby; 'smp-deleted': New Session SMP Already Deleted; 'control-closed': New Session Closed; 'data-session-exists': New Session Already Exists; 'data-session-creation-failure': New Data Session Creation Failure; 'rtp-reversed': RTP Reverse Creation; 'rtcp-reversed': RTCP Reverse Creation; 'cross-cpu-sent': Cross CPU Sent; 'cross-cpu-rcv': Cross CPU Received; 'cross-cpu-no-session': Cross CPU No Session Found; 'cross-cpu-created': Cross CPU Creation; 'cross-cpu-rcv-failure': Cross CPU Receive Failure; 'data-free-smp-retry-lookup': Data Session Free SMP Retry Lookup; 'data-free-smp-not-found': Data Session Free SMP Not Found; 'ha-streams-sent': HA Streams Sent; 'ha-streams-rcv': HA Streams Received; 'ha-stream-incompatible': HA Incompatible Streams Received; 'ha-stream-exists': HA Stream Already Exists; 'ha-port-allocation-failure': HA Stream Port Allocation Failure; 'ha-data-session-sent': HA Data Session Sent; 'ha-data-session-rcv': HA Data Session Received; 'ha-data-no-smp': HA Data Session SMP Not Found; 'ha-control-closed': HA New Data Control Session Closed; 'ha-data-exists': HA New Data Session Already Exists; 'ha-extension-failure': HA Conn Extension Failure; 'ha-stream-smp-reused': HA SMP Session Reused; 'ha-stream-smp-acquire-failure': HA SMP Session Acquire Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, streams-created, streams-freed, stream-creation-failure, ports-allocated, ports-freed, port-allocation-failure, unknown-client-port-from-server, data-session-created, data-session-freed, no-session-mem, smp-inserted, smp-removed, smp-reused, fixed-nat-lid-standby, smp-deleted, control-closed, data-session-exists, data-session-creation-failure, rtp-reversed, rtcp-reversed, cross-cpu-sent, cross-cpu-rcv, cross-cpu-no-session, cross-cpu-created, cross-cpu-rcv-failure, data-free-smp-retry-lookup, data-free-smp-not-found, ha-streams-sent, ha-streams-rcv, ha-stream-incompatible, ha-stream-exists, ha-port-allocation-failure, ha-data-session-sent, ha-data-session-rcv, ha-data-no-smp, ha-control-closed, ha-data-exists, ha-extension-failure, ha-stream-smp-reused, ha-stream-smp-acquire-failure, smp-app-type-mismatch

h323

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

h323_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'h225ras-message': H323 H225 RAS Message; 'h225cs-message': H323 H225 Call Signaling Message; 'h245ctl-message': H323 H245 Media Control Message; 'h245-tunneled': H323 H245 Tunnelled Message; 'fast-start': H323 FastStart; 'parse-error': Message Parse Error; 'message-cross-multi-packets': H323 Message Cross Multiple Packets; 'conn-ext-creation-failure': H323 Packet Rewrite Failure; 'rewrite-failure': H323 Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'h245-dynamic-addr-exceed': H323 H245 Dynamic Address Exceed;

Type: string

Supported Values: all, h225ras-message, h225cs-message, h245ctl-message, h245-tunneled, fast-start, parse-error, message-cross-multi-packets, conn-ext-creation-failure, rewrite-failure, tcp-out-of-order-drop, h245-dynamic-addr-exceed

tftp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions Created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

mgcp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mgcp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auep': MGCP AUEP; 'aucx': MGCP AUCX; 'crcx': MGCP CRCX; 'dlcx': MGCP DLCX; 'epcf': MGCP EPCF; 'mdcx': MGCP MDCX; 'ntfy': MGCP NTFY; 'rqnt': MGCP RQNT; 'rsip': MGCP RSIP; 'parse-error': MGCP Message Parse Error; 'conn-ext-creation-failure': MGCP Create Connection Extension Failure; 'third-party-sdp': MGCP Third-Party SDP; 'sdp-process-candidate-failure': MGCP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': MGCP Operate SDP Failure; 'sdp-alloc-port-map-success': MGCP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': MGCP Alloc SDP Port Map Failure; 'modify-failure': MGCP Message Modify Failure; 'rewrite-failure': MGCP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop;

Type: string

Supported Values: all, auep, aucx, crcx, dlcx, epcf, mdcx, ntfy, rqnt, rsip, parse-error, conn-ext-creation-failure, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop

2.26.41 cgnv6 fixed-nat alg esp

Change Fixed NAT ESP ALG Settings

esp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	esp
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/esp
Element Attributes	esp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/fixed-nat/alg/esp/stats
Schema	`esp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/esp

esp attributes

```
POST /axapi/v3/cgnv6/fixed-nat/alg/esp
Payload:
```

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```
{
    "esp": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/esp

esp attributes

```
GET /axapi/v3/cgnv6/fixed-nat/alg/esp
Reponse:
{
    "esp": {
        "uuid": "c5ed46b2-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/fixed-nat/alg/esp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/esp

esp attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/esp

esp attributes

```
PUT /axapi/v3/cgnv6/fixed-nat/alg/esp
Payload:
{
    "esp": {
        "sampling-enable": [
            {
                "counters1": "session-created"
```

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```
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/esp

esp attributes

```
DELETE /axapi/v3/cgnv6/fixed-nat/alg/esp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

esp attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'placeholder-debug': Placeholder Debug;

Type: string

Supported Values: all, session-created, placeholder-debug

2.26.42 cgnv6 fixed-nat alg esp stats

Statistics for the object esp

esp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	esp
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/esp/stats
Element Attributes	esp_attributes
Partition Visibility	None
Schema	`esp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/esp/stats

esp attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/esp/stats

esp attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/esp/stats

esp attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/esp/stats

esp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/esp/stats

esp attributes

esp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

session-created

Description ESP Sessions Created

Type: number

Format: counter

2.26.43 cgnv6 fixed-nat alg ftp

Change Fixed NAT FTP ALG Settings

ftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ftp
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/ftp
Element Attributes	ftp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/fixed-nat/alg/ftp/stats
Schema	`ftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/ftp

ftp attributes

```
POST /axapi/v3/cgnv6/fixed-nat/alg/ftp
Payload:
{
    "ftp": {
        "sampling-enable": [
            {
```

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```
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/ftp

ftp attributes

```
GET /axapi/v3/cgnv6/fixed-nat/alg/ftp
Reponse:
{
    "ftp": {
        "uuid": "c5ed4748-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/fixed-nat/alg/ftp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/ftp

ftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/ftp

ftp attributes

```
PUT /axapi/v3/cgnv6/fixed-nat/alg/ftp
Payload:
{
    "ftp": {
        "sampling-enable": [
            {
                "counters1": "port-requests"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/ftp

ftp attributes

```
DELETE /axapi/v3/cgnv6/fixed-nat/alg/ftp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ftp attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'port-requests': PORT Requests From Client; 'eprt-requests': EPRT Requests From Client; 'lprt-requests': LPRT Requests From Client; 'pasv-replies': PASV Replies From Server; 'epsv-replies': EPSV Replies From Server; 'lpsv-replies': LPSV Replies From Server; 'port-retransmits': Port Mode Request Retransmits; 'pasv-retransmits': Passive Mode Reply Retransmits; 'port-helper-created': Port Mode Helper Created; 'pasv-helper-created': Passive Mode Helper Created; 'port-helper-freed': Port Mode Helper Freed; 'pasv-helper-freed': Passive Mode Helper Freed; 'port-helper-unused': Port Mode Helper Unused; 'pasv-helper-unused': Passive Mode Helper Unused; 'port-helper-creation-failure': Port Helper Creation Failure; 'pasv-helper-creation-failure': Passive Helper Creation Failure; 'get-conn-ext-failure': Get Conn Extension Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, port-requests, eprt-requests, lprt-requests, pasv-replies, epsv-replies, lpsv-replies, port-retransmits, pasv-retransmits, port-helper-created, pasv-helper-created, port-helper-freed, pasv-helper-freed, port-helper-unused, pasv-helper-unused, port-helper-creation-failure, pasv-helper-creation-failure, get-conn-ext-failure, smp-app-type-mismatch

2.26.44 cgnv6 fixed-nat alg ftp stats

Statistics for the object ftp

ftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ftp
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/ftp/stats
Element Attributes	ftp_attributes
Partition Visibility	None
Schema	`ftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/ftp/stats

ftp attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/ftp/stats

ftp attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/ftp/stats

ftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/ftp/stats

ftp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/ftp/stats

ftp attributes

ftp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

eprt-requests

Description EPRT Requests From Client

Type: number

Format: counter

epsv-replies

Description EPSV Replies From Server

Type: number

Format: counter

lprt-requests

Description LPRT Requests From Client

Type: number

Format: counter

lpsv-replies

Description LPSV Replies From Server

Type: number

Format: counter

pasv-replies

Description PASV Replies From Server

Type: number

Format: counter

port-requests

Description PORT Requests From Client

Type: number

Format: counter

2.26.45 cgnv6 fixed-nat alg h323

Change Fixed NAT H323 ALG Settings

h323 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	h323
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/h323
Element Attributes	h323_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/fixed-nat/alg/h323/stats
Schema	`h323 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/h323

h323 attributes

```
POST /axapi/v3/cgnv6/fixed-nat/alg/h323
Payload:
{
    "h323": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/h323

h323 attributes

```
GET /axapi/v3/cgnv6/fixed-nat/alg/h323
Reponse:
{
    "h323": {
        "uuid": "c5ed4af4-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
```

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```
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/fixed-nat/alg/h323"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/h323

h323 attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/h323

h323 attributes

```
PUT /axapi/v3/cgnv6/fixed-nat/alg/h323
Payload:
{
    "h323": {
        "sampling-enable": [
            {
                "counters1": "h225ras-message"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/h323

h323 attributes

```
DELETE /axapi/v3/cgnv6/fixed-nat/alg/h323
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

h323 attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'h225ras-message': H323 H225 RAS Message; 'h225cs-message': H323 H225 Call Signaling Message; 'h245ctl-message': H323 H245 Media Control Message; 'h245-tunneled': H323 H245 Tunnelled Message; 'fast-start': H323 FastStart; 'parse-error': Message Parse Error; 'message-cross-multi-packets': H323 Message Cross Multiple Packets; 'conn-ext-creation-failure': H323 Packet Rewrite Failure; 'rewrite-failure': H323 Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'h245-dynamic-addr-exceed': H323 H245 Dynamic Address Exceed;

Type: string

Supported Values: all, h225ras-message, h225cs-message, h245ctl-message, h245-tunneled, fast-start, parse-error, message-cross-multi-packets, conn-ext-creation-failure, rewrite-failure, tcp-out-of-order-drop, h245-dynamic-addr-exceed

2.26.46 cgnv6 fixed-nat alg h323 stats

Statistics for the object h323

h323 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	h323
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/h323/stats
Element Attributes	h323_attributes
Partition Visibility	None
Schema	`h323 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/h323/stats

h323 attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/h323/stats

h323 attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/h323/stats

h323 attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/h323/stats

h323 attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/h323/stats

h323 attributes

h323 attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

fast-start

Description H323 FastStart

Type: number

Format: counter

h225cs-message

Description H323 H225 Call Signaling Message

Type: number

Format: counter

h225ras-message

Description H323 H225 RAS Message

Type: number

Format: counter

h245-tunneled

Description H323 H245 Tunnelled Message

Type: number

Format: counter

h245ctl-message

Description H323 H245 Media Control Message

Type: number

Format: counter

2.26.47 cgnv6 fixed-nat alg mgcp

Change fixed-nat MGCP ALG Settings

mgcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	mgcp
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/mgcp
Element Attributes	mgcp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/fixed-nat/alg/mgcp/stats
Schema	`mgcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/mgcp

mgcp attributes

```
POST /axapi/v3/cgnv6/fixed-nat/alg/mgcp
Payload:
{
```

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```
    "mgcp": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/mgcp

mgcp attributes

```
GET /axapi/v3/cgnv6/fixed-nat/alg/mgcp
Reponse:
{
    "mgcp": {
        "uuid": "c5ed49be-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/fixed-nat/alg/mgcp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/mgcp

mgcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/mgcp

mgcp attributes

```
PUT /axapi/v3/cgnv6/fixed-nat/alg/mgcp
Payload:
{
    "mgcp": {
        "sampling-enable": [
            {
                "counters1": "auep"
            }
```

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```
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/mgcp

mgcp attributes

```
DELETE /axapi/v3/cgnv6/fixed-nat/alg/mgcp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

mgcp attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auep': MGCP AUEP; 'aucx': MGCP AUCX; 'crcx': MGCP CRCX; 'dlcx': MGCP DLCX; 'epcf': MGCP EPCF; 'mdcx': MGCP MDCX; 'ntfy': MGCP NTFY; 'rqnt': MGCP RQNT; 'rsip': MGCP RSIP; 'parse-error': MGCP Message Parse Error; 'conn-ext-creation-failure': MGCP Create Connection Extension Failure; 'third-party-sdp': MGCP Third-Party SDP; 'sdp-process-candidate-failure': MGCP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': MGCP Operate SDP Failure; 'sdp-alloc-port-map-success': MGCP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': MGCP Alloc SDP Port

Map Failure; 'modify-failure': MGCP Message Modify Failure; 'rewrite-failure': MGCP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop;

Type: string

Supported Values: all, auep, aucx, crcx, dlcx, epcf, mdcx, ntfy, rqnt, rsip, parse-error, conn-ext-creation-failure, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop

2.26.48 cgnv6 fixed-nat alg mgcp stats

Statistics for the object mgcp

mgcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	mgcp
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/mgcp/stats
Element Attributes	mgcp_attributes
Partition Visibility	None
Schema	`mgcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/mgcp/stats

mgcp attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/mgcp/stats

mgcp attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/mgcp/stats

mgcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/mgcp/stats

mgcp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/mgcp/stats

mgcp attributes

mgcp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

aucx

Description MGCP AUCX

Type: number

Format: counter

auep

Description MGCP AUEP

Type: number

Format: counter

crcx

Description MGCP CRCX

Type: number

Format: counter

dlcx

Description MGCP DLCX

Type: number

Format: counter

epcf

Description MGCP EPCF

Type: number

Format: counter

mdcx

Description MGCP MDCX

Type: number

Format: counter

ntfy

Description MGCP NTFY

Type: number

Format: counter

rqnt

Description MGCP RQNT

Type: number

Format: counter

rsip

Description MGCP RSIP

Type: number

Format: counter

2.26.49 cgnv6 fixed-nat alg pptp

Change Fixed NAT PPTP ALG Settings

pptp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pptp
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/pptp
Element Attributes	pptp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/fixed-nat/alg/pptp/stats
Schema	`pptp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/pptp

pptp attributes

```
POST /axapi/v3/cgnv6/fixed-nat/alg/pptp
Payload:
{
    "pptp": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
```

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```
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/pptp

pptp attributes

```
GET /axapi/v3/cgnv6/fixed-nat/alg/pptp
Reponse:
{
    "pptp": {
        "uuid": "c5ed47e8-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/fixed-nat/alg/pptp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/pptp

pptp attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/pptp

pptp attributes

```
PUT /axapi/v3/cgnv6/fixed-nat/alg/pptp
Payload:
{
    "pptp": {
        "sampling-enable": [
            {
                "counters1": "calls-established"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/pptp

pptp attributes

```
DELETE /axapi/v3/cgnv6/fixed-nat/alg/pptp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

pptp attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'mismatched-pns-call-id': Mismatched PNS Call ID; 'gre-sessions-created': GRE Sessions Created; 'gre-sessions-freed': GRE Sessions Freed; 'no-gre-session-match': No Matching GRE Session; 'smp-sessions-created': SMP Sessions Created; 'smp-sessions-freed': SMP Sessions Freed; 'smp-session-creation-failure': SMP Session Creation Failures; 'extension-creation-failure': Extension Creation Failures; 'ha-sent': HA Info Sent; 'ha-rcv': HA Info Received; 'ha-no-mem': HA Memory Allocation Failure; 'ha-conflict': HA Call ID Conflicts; 'ha-overwrite': HA Call ID Overwrites; 'ha-call-sent': HA Call Sent; 'ha-call-rcv': HA Call Received; 'ha-smp-conflict': HA SMP Conflicts; 'ha-smp-in-del-q': HA SMP Deleted; 'smp-app-type-mismatch': SMP ALG App Type Mismatch; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-retransmit-wrong-control': Call Reply Retransmit Wrong Control; 'call-reply-retransmit-acquired': Call Reply Retransmit Acquired; 'call-reply-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-client-call-id-mismatch':

SMP Client Call ID Mismatch; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, mismatched-pns-call-id, gre-sessions-created, gre-sessions-freed, no-gre-session-match, smp-sessions-created, smp-sessions-freed, smp-session-creation-failure, extension-creation-failure, ha-sent, ha-rcv, ha-no-mem, ha-conflict, ha-overwrite, ha-call-sent, ha-call-rcv, ha-smp-conflict, ha-smp-in-del-q, smp-app-type-mismatch, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-retransmit-wrong-control, call-reply-retransmit-acquired, call-reply-ext-alloc-failure, smp-client-call-id-mismatch, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

2.26.50 cgnv6 fixed-nat alg pptp stats

Statistics for the object pptp

pptp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pptp
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/pptp/stats
Element Attributes	pptp_attributes
Partition Visibility	None
Schema	`pptp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/pptp/stats

pptp attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/pptp/stats

pptp attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/pptp/stats

pptp attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/pptp/stats

pptp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/pptp/stats

pptp attributes

pptp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

call-reply-pns-call-id-mismatch

Description Call ID Mismatch on Call Reply

Type: number

Format: counter

call-req-pns-call-id-mismatch

Description Call ID Mismatch on Call Request

Type: number

Format: counter

calls-established

Description Calls Established

Type: number

Format: counter

gre-sessions-created

Description GRE Sessions Created

Type: number

Format: counter

gre-sessions-freed

Description GRE Sessions Freed

Type: number

Format: counter

mismatched-pns-call-id

Description Mismatched PNS Call ID

Type: number

Format: counter

no-gre-session-match

Description No Matching GRE Session

Type: number

Format: counter

2.26.51 cgnv6 fixed-nat alg rtsp

Change Fixed NAT RTSP ALG Settings

rtsp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rtsp
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/rtsp
Element Attributes	rtsp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/fixed-nat/alg/rtsp/stats
Schema	`rtsp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/rtsp

rtsp attributes

```
POST /axapi/v3/cgnv6/fixed-nat/alg/rtsp
Payload:
{
```

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```
    "rtsp": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/rtsp

rtsp attributes

```
GET /axapi/v3/cgnv6/fixed-nat/alg/rtsp
Reponse:
{
    "rtsp": {
        "uuid": "c5ed487e-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/fixed-nat/alg/rtsp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/rtsp

rtsp attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/rtsp

rtsp attributes

```
PUT /axapi/v3/cgnv6/fixed-nat/alg/rtsp
Payload:
{
    "rtsp": {
        "sampling-enable": [
            {
                "counters1": "streams-created"
            }
```

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```
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/rtsp

rtsp attributes

```
DELETE /axapi/v3/cgnv6/fixed-nat/alg/rtsp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

rtsp attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'streams-created': Streams Created; 'streams-freed': Streams Freed; 'stream-creation-failure': Stream Creation Failures; 'ports-allocated': Stream Client Ports Allocated; 'ports-freed': Stream Client Ports Freed; 'port-allocation-failure': Stream Client Port Allocation Failures; 'unknown-client-port-from-server': Server Replies With Unknown Client Ports; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'no-session-mem': Data Session Creation Failures; 'smp-inserted': SMP Session Inserted; 'smp-removed': SMP Session Removed; 'smp-reused': SMP Session Reused; 'fixed-nat-lid-standby': New Session Fixed NAT LID Standby; 'smp-deleted': New Session SMP Already

Deleted; 'control-closed': New Session Closed; 'data-session-exists': New Session Already Exists; 'data-session-creation-failure': New Data Session Creation Failure; 'rtp-reversed': RTP Reverse Creation; 'rtcp-reversed': RTCP Reverse Creation; 'cross-cpu-sent': Cross CPU Sent; 'cross-cpu-rcv': Cross CPU Received; 'cross-cpu-no-session': Cross CPU No Session Found; 'cross-cpu-created': Cross CPU Creation; 'cross-cpu-rcv-failure': Cross CPU Receive Failure; 'data-free-smp-retry-lookup': Data Session Free SMP Retry Lookup; 'data-free-smp-not-found': Data Session Free SMP Not Found; 'ha-streams-sent': HA Streams Sent; 'ha-streams-rcv': HA Streams Received; 'ha-stream-incompatible': HA Incompatible Streams Received; 'ha-stream-exists': HA Stream Already Exists; 'ha-port-allocation-failure': HA Stream Port Allocation Failure; 'ha-data-session-sent': HA Data Session Sent; 'ha-data-session-rcv': HA Data Session Received; 'ha-data-no-smp': HA Data Session SMP Not Found; 'ha-control-closed': HA New Data Control Session Closed; 'ha-data-exists': HA New Data Session Already Exists; 'ha-extension-failure': HA Conn Extension Failure; 'ha-stream-smp-reused': HA SMP Session Reused; 'ha-stream-smp-acquire-failure': HA SMP Session Acquire Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, streams-created, streams-freed, stream-creation-failure, ports-allocated, ports-freed, port-allocation-failure, unknown-client-port-from-server, data-session-created, data-session-freed, no-session-mem, smp-inserted, smp-removed, smp-reused, fixed-nat-lid-standby, smp-deleted, control-closed, data-session-exists, data-session-creation-failure, rtp-reversed, rtcp-reversed, cross-cpu-sent, cross-cpu-rcv, cross-cpu-no-session, cross-cpu-created, cross-cpu-rcv-failure, data-free-smp-retry-lookup, data-free-smp-not-found, ha-streams-sent, ha-streams-rcv, ha-stream-incompatible, ha-stream-exists, ha-port-allocation-failure, ha-data-session-sent, ha-data-session-rcv, ha-data-no-smp, ha-control-closed, ha-data-exists, ha-extension-failure, ha-stream-smp-reused, ha-stream-smp-acquire-failure, smp-app-type-mismatch

2.26.52 cgnv6 fixed-nat alg rtsp stats

Statistics for the object rtsp

rtsp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rtsp
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/rtsp/stats
Element Attributes	rtsp_attributes
Partition Visibility	None
Schema	`rtsp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/rtsp/stats

rtsp attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/rtsp/stats

rtsp attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/rtsp/stats

rtsp attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/rtsp/stats

rtsp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/rtsp/stats

rtsp attributes

rtsp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

data-session-created

Description Data Session Created

Type: number

Format: counter

data-session-freed

Description Data Session Freed

Type: number

Format: counter

no-session-mem

Description Data Session Creation Failures

Type: number

Format: counter

port-allocation-failure

Description Stream Client Port Allocation Failures

Type: number

Format: counter

ports-allocated

Description Stream Client Ports Allocated

Type: number

Format: counter

ports-freed

Description Stream Client Ports Freed

Type: number

Format: counter

stream-creation-failure

Description Stream Creation Failures

Type: number

Format: counter

streams-created

Description Streams Created

Type: number

Format: counter

streams-freed

Description Streams Freed

Type: number

Format: counter

unknown-client-port-from-server

Description Server Replies With Unknown Client Ports

Type: number

Format: counter

2.26.53 cgnv6 fixed-nat alg sip

Change Fixed NAT SIP ALG Settings

sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sip
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/sip
Element Attributes	sip_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/fixed-nat/alg/sip/stats
Schema	`sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/sip

sip attributes

```
POST /axapi/v3/cgnv6/fixed-nat/alg/sip
Payload:
{
    "sip": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/sip

sip attributes

```
GET /axapi/v3/cgnv6/fixed-nat/alg/sip
Reponse:
{
    "sip": {
        "uuid": "c5ed491e-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
```

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```
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/fixed-nat/alg/sip"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/sip

sip attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/sip

sip attributes

```
PUT /axapi/v3/cgnv6/fixed-nat/alg/sip
Payload:
{
    "sip": {
        "sampling-enable": [
            {
                "counters1": "method-register"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/sip

sip attributes

```
DELETE /axapi/v3/cgnv6/fixed-nat/alg/sip
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

sip attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'method-register': SIP Method REGISTER; 'method-invite': SIP Method INVITE; 'method-ack': SIP Method ACK; 'method-cancel': SIP Method CANCEL; 'method-bye': SIP Method BYE; 'method-options': SIP Method OPTIONS; 'method-prack': SIP Method PRACK; 'method-subscribe': SIP Method SUBSCRIBE; 'method-notify': SIP Method NOTIFY; 'method-publish': SIP Method PUBLISH; 'method-info': SIP Method INFO; 'method-refer': SIP Method REFER; 'method-message': SIP Method MESSAGE; 'method-update': SIP Method UPDATE; 'method-unknown': SIP Method UNKNOWN; 'parse-error': SIP Message Parse Error; 'req-uri-op-failrue': SIP Operate Request Uri Failure; 'via-hdr-op-failrue': SIP Operate Via Header Failure; 'contact-hdr-op-failrue': SIP Operate Contact Header Failure; 'from-hdr-op-failrue': SIP Operate From Header Failure; 'to-hdr-op-failrue': SIP Operate To Header Failure; 'route-hdr-op-failrue': SIP Operate Route Header Failure; 'record-route-hdr-op-failrue': SIP Operate Record-Route Header Failure; 'content-length-hdr-op-failrue': SIP Operate Content-Length Failure; 'third-party-registration': SIP Third-Party Registration; 'conn-ext-creation-failure': SIP Create Connection Extension Failure; 'alloc-contact-port-failure': SIP Alloc Contact Port Failure; 'outside-contact-port-mismatch': SIP Outside Contact Port Mismatch NAT Port; 'inside-contact-port-mismatch': SIP Inside Contact Port Mismatch; 'third-party-sdp': SIP Third-Party SDP; 'sdp-process-candidate-failure': SIP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': SIP Operate SDP Failure; 'sdp-alloc-port-map-success': SIP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': SIP Alloc SDP Port Map Failure; 'modify-failure': SIP Message Modify Failure; 'rewrite-failure': SIP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'helper-found': SMP Helper Conn Found; 'helper-created': SMP Helper Conn Created; 'helper-deleted': SMP Helper Conn Already Deleted; 'helper-freed': SMP Helper Conn Freed; 'helper-failure': SMP Helper Failure;

Type: string

Supported Values: all, method-register, method-invite, method-ack, method-cancel, method-bye, method-options, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error,

req-uri-op-failrue, via-hdr-op-failrue, contact-hdr-op-failrue, from-hdr-op-failrue, to-hdr-op-failrue, route-hdr-op-failrue, record-route-hdr-op-failrue, content-length-hdr-op-failrue, third-party-registration, conn-ext-creation-failure, alloc-contact-port-failure, outside-contact-port-mismatch, inside-contact-port-mismatch, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop, smp-conn-alloc-failure, helper-found, helper-created, helper-deleted, helper-freed, helper-failure

2.26.54 cgnv6 fixed-nat alg sip stats

Statistics for the object sip

sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sip
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/sip/stats
Element Attributes	sip_attributes
Partition Visibility	None
Schema	`sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/sip/stats

sip attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/sip/stats

sip attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/sip/stats

sip attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/sip/stats

sip attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/sip/stats

sip attributes

sip attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

method-ack

Description SIP Method ACK

Type: number

Format: counter

method-bye

Description SIP Method BYE

Type: number

Format: counter

method-cancel

Description SIP Method CANCEL

Type: number

Format: counter

method-info

Description SIP Method INFO

Type: number

Format: counter

method-invite

Description SIP Method INVITE

Type: number

Format: counter

method-message

Description SIP Method MESSAGE

Type: number

Format: counter

method-notify

Description SIP Method NOTIFY

Type: number

Format: counter

method-options

Description SIP Method OPTIONS

Type: number

Format: counter

method-prack

Description SIP Method PRACK

Type: number

Format: counter

method-publish

Description SIP Method PUBLISH

Type: number

Format: counter

method-refer

Description SIP Method REFER

Type: number

Format: counter

method-register

Description SIP Method REGISTER

Type: number

Format: counter

method-subscribe

Description SIP Method SUBSCRIBE

Type: number

Format: counter

method-unknown

Description SIP Method UNKNOWN

Type: number

Format: counter

method-update

Description SIP Method UPDATE

Type: number

Format: counter

2.26.55 cgnv6 fixed-nat alg tftp

Change Fixed NAT TFTP ALG Settings

tftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tftp
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/tftp
Element Attributes	tftp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/fixed-nat/alg/tftp/stats
Schema	`tftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/tftp

tftp attributes

```
POST /axapi/v3/cgnv6/fixed-nat/alg/tftp
Payload:
{
    "tftp": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/tftp

tftp attributes

```
GET /axapi/v3/cgnv6/fixed-nat/alg/tftp
Reponse:
{
    "tftp": {
        "uuid": "c5ed4a54-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
```

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```
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/fixed-nat/alg/tftp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/tftp

tftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/tftp

tftp attributes

```
PUT /axapi/v3/cgnv6/fixed-nat/alg/tftp
Payload:
{
    "tftp": {
        "sampling-enable": [
            {
                "counters1": "session-created"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/tftp

tftp attributes

```
DELETE /axapi/v3/cgnv6/fixed-nat/alg/tftp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

tftp attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions Created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

2.26.56 cgnv6 fixed-nat alg tftp stats

Statistics for the object tftp

tftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tftp
Element URI	/axapi/v3/cgnv6/fixed-nat/alg/tftp/stats
Element Attributes	tftp_attributes
Partition Visibility	None
Schema	`tftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/tftp/stats

tftp attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/alg/tftp/stats

tftp attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/alg/tftp/stats

tftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/alg/tftp/stats

tftp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/alg/tftp/stats

tftp attributes

tftp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

session-created

Description TFTP Client Sessions Created

Type: number

Format: counter

2.26.57 cgnv6 fixed-nat detail

Show Fixed NAT Related Details

detail Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	detail
Element URI	/axapi/v3/cgnv6/fixed-nat/detail
Element Attributes	detail_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/fixed-nat/detail/oper
Schema	`detail schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/detail

detail attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/detail

detail attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/detail

detail attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/detail

detail attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/detail

detail attributes

detail attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.58 cgnv6 fixed-nat detail oper

Operational Status for the object detail

detail Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	detail
Element URI	/axapi/v3/cgnv6/fixed-nat/detail/oper
Element Attributes	detail_attributes
Partition Visibility	None
Schema	`detail schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/detail/oper

detail attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/detail/oper

detail attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/detail/oper

detail attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/detail/oper

detail attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/detail/oper

detail attributes

detail attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

fixed-nat-config-list

Type: List

oper_fixed-nat-config-list

Specification	Value
Type	*list*
Block object keys	

index

Description

Type: number

inside-user

Description

Type: string

2.26.59 cgnv6 fixed-nat disabled-config

Fixed NAT Disabled Configuration

disabled-config Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	disabled-config
Element URI	/axapi/v3/cgnv6/fixed-nat/disabled-config
Element Attributes	disabled-config_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/fixed-nat/disabled-config/oper
Schema	`disabled-config schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/disabled-config

disabled-config attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/disabled-config

disabled-config attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/disabled-config

disabled-config attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/disabled-config

disabled-config attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/disabled-config

disabled-config attributes

disabled-config attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.60 cgnv6 fixed-nat disabled-config oper

Operational Status for the object disabled-config

disabled-config Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	disabled-config
Element URI	/axapi/v3/cgnv6/fixed-nat/disabled-config/oper
Element Attributes	disabled-config_attributes
Partition Visibility	None
Schema	`disabled-config schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/disabled-config/oper

disabled-config attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/disabled-config/oper

disabled-config attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/disabled-config/oper

disabled-config attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/disabled-config/oper

disabled-config attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/disabled-config/oper

disabled-config attributes

disabled-config attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

disabled-config-list

Type: List

oper_disabled-config-list

Specification	Value
Type	*list*
Block object keys	

active-users

Description

Type: number

clear-session

Description

Type: number

inside-end-address

Description

Type: string

inside-ip-list

Description

Type: string

Format: string-rlx

inside-netmask

Description

Type: number

inside-start-address

Description

Type: string

partition

Description

Type: string

2.26.61 cgnv6 fixed-nat full-cone-session

Full Cone Sessions for Fixed NAT

full-cone-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	full-cone-session
Element URI	/axapi/v3/cgnv6/fixed-nat/full-cone-session
Element Attributes	full-cone-session_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/fixed-nat/full-cone-session/oper
Schema	`full-cone-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/full-cone-session

full-cone-session attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/full-cone-session

full-cone-session attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/full-cone-session

full-cone-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/full-cone-session

full-cone-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/full-cone-session

full-cone-session attributes

full-cone-session attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.62 cgnv6 fixed-nat full-cone-session oper

Operational Status for the object full-cone-session

full-cone-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	full-cone-session
Element URI	/axapi/v3/cgnv6/fixed-nat/full-cone-session/oper
Element Attributes	full-cone-session_attributes
Partition Visibility	None
Schema	`full-cone-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/full-cone-session/oper

full-cone-session attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/full-cone-session/oper

full-cone-session attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/full-cone-session/oper

full-cone-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/full-cone-session/oper

full-cone-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/full-cone-session/oper

full-cone-session attributes

full-cone-session attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-partitions

Description

Type: boolean

Supported Values: true, false, 1, 0

debug-session

Description

Type: boolean

Supported Values: true, false, 1, 0

dslite-total-session-count

Description

Type: number

graceful

Description

Type: boolean

Supported Values: true, false, 1, 0

inside-addr

Description

Type: string

Format: ipv4-address

inside-addr-end

Description

Type: string

Format: ipv4-address

inside-addr-start

Description

Type: string

Format: ipv4-address

inside-addr-v6

Description

Type: string

Format: ipv6-address

inside-addr-v6-end

Description

Type: string

Format: ipv6-address

inside-addr-v6-start

Description

Type: string

Format: ipv6-address

inside-port

Description

Type: number

nat-addr

Description

Type: string

Format: ipv4-address

nat-addr-end

Description

Type: string

Format: ipv4-address

nat-addr-start

Description

Type: string

Format: ipv4-address

nat-port

Description

Type: number

nat44-total-session-count

Description

Type: number

nat64-total-session-count

Description

Type: number

partition-name

Description

Type: string

pcp

Description

Type: boolean

Supported Values: true, false, 1, 0

session-count

Description

Type: number

session-list

Type: List

session-type

Description

Type: string

Supported Values: nat44, nat64, ds-lite

shared-partition

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_session-list

Specification	Value
Type	*list*
Block object keys	

EIF

Description

Type: number

EIM

Description

Type: number

age

Description

Type: string

cpu

Description

Type: number

flags

Description

Type: string

inside-address

Description

Type: string

inside-port

Description

Type: number

inside-v6-address

Description

Type: string

nat-address

Description

Type: string

Format: ipv4-address

nat-port

Description

Type: number

protocol

Description

Type: string

2.26.63 cgnv6 fixed-nat global

Fixed NAT Global configuration and Stats

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/fixed-nat/global
Element Attributes	global_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/fixed-nat/global/stats
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/global

global attributes

```
POST /axapi/v3/cgnv6/fixed-nat/global
Payload:
{
    "global": {
        "create-port-mapping-file": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/global

global attributes

```
GET /axapi/v3/cgnv6/fixed-nat/global
Reponse:
{
    "global": {
        "create-port-mapping-file": 1,
        "port-mapping-files-count": 5,
```

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```
        "uuid": "c5ed454a-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/fixed-nat/global"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/global

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/global

global attributes

```
PUT /axapi/v3/cgnv6/fixed-nat/global
Payload:
{
    "global": {
        "create-port-mapping-file": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/global

global attributes

```
DELETE /axapi/v3/cgnv6/fixed-nat/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

global attributes

create-port-mapping-file

Description Create Port Mapping File

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-mapping-files-count

Description Number of old fixed_nat files to store

Type: number

Range: 1-10

Default: 5

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total-nat-in-use': Total NAT Addresses in-use; 'total-tcp-allocated': Total TCP Ports Allocated; 'total-tcp-freed': Total TCP Ports Freed; 'total-udp-allocated': Total UDP Ports Allocated; 'total-udp-freed': Total UDP Ports Freed; 'total-icmp-allocated': Total ICMP Ports Allocated; 'total-icmp-freed': Total ICMP Ports Freed; 'nat44-data-session-created': NAT44 Data Sessions Created; 'nat44-data-session-freed': NAT44 Data Sessions Freed; 'nat64-data-session-created': NAT64 Data Sessions Created; 'nat64-data-session-freed': NAT64 Data Sessions Freed; 'dslite-data-session-created': DS-Lite Data Sessions Created; 'dslite-data-session-freed': DS-Lite Data Sessions Freed; 'nat-port-unavailable-tcp': TCP NAT Port Unavailable; 'nat-port-unavailable-udp': UDP NAT Port Unavailable; 'nat-port-unavailable-icmp': ICMP NAT Port Unavailable; 'session-user-quota-exceeded': Sessions User Quota Exceeded; 'nat44-tcp-fullcone-created': NAT44 TCP Full-Cone Created; 'nat44-tcp-fullcone-freed': NAT44 TCP Full-Cone Freed; 'nat44-udp-fullcone-created': NAT44 UDP Full-Cone Created; 'nat44-udp-fullcone-freed': NAT44 UDP Full-Cone Freed; 'nat44-udp-alg-fullcone-created': NAT44 UDP ALG Full-Cone Created;

'nat44-udp-alg-fullcone-freed': NAT44 UDP ALG Full-Cone Freed; 'nat64-tcp-fullcone-created': NAT64 TCP Full-Cone Created; 'nat64-tcp-fullcone-freed': NAT64 TCP Full-Cone Freed; 'nat64-udp-fullcone-created': NAT64 UDP Full-Cone Created; 'nat64-udp-fullcone-freed': NAT64 UDP Full-Cone Freed; 'nat64-udp-alg-fullcone-created': NAT64 UDP ALG Full-Cone Created; 'nat64-udp-alg-fullcone-freed': NAT64 UDP ALG Full-Cone Freed; 'dslite-tcp-fullcone-created': DS-Lite TCP Full-Cone Created; 'dslite-tcp-fullcone-freed': DS-Lite TCP Full-Cone Freed; 'dslite-udp-fullcone-created': DS-Lite UDP Full-Cone Created; 'dslite-udp-fullcone-freed': DS-Lite UDP Full-Cone Freed; 'dslite-udp-alg-fullcone-created': DS-Lite UDP ALG Full-Cone Created; 'dslite-udp-alg-fullcone-freed': DS-Lite UDP ALG Full-Cone Freed; 'fullcone-failure': Full-Cone Session Creation Failed; 'nat44-eim-match': NAT44 Endpoint-Independent-Mapping Matched; 'nat64-eim-match': NAT64 Endpoint-Independent-Mapping Matched; 'dslite-eim-match': DS-Lite Endpoint-Independent-Mapping Matched; 'nat44-eif-match': NAT44 Endpoint-Independent-Filtering Matched; 'nat64-eif-match': NAT64 Endpoint-Independent-Filtering Matched; 'dslite-eif-match': DS-Lite Endpoint-Independent-Filtering Matched; 'nat44-inbound-filtered': NAT44 Endpoint-Dependent Filtering Drop; 'nat64-inbound-filtered': NAT64 Endpoint-Dependent Filtering Drop; 'dslite-inbound-filtered': DS-Lite Endpoint-Dependent Filtering Drop; 'nat44-eif-limit-exceeded': NAT44 Endpoint-Independent-Filtering Limit Exceeded; 'nat64-eif-limit-exceeded': NAT64 Endpoint-Independent-Filtering Limit Exceeded; 'dslite-eif-limit-exceeded': DS-Lite Endpoint-Independent-Filtering Limit Exceeded; 'nat44-hairpin': NAT44 Hairpin Session Created; 'nat64-hairpin': NAT64 Hairpin Session Created; 'dslite-hairpin': DS-Lite Hairpin Session Created; 'standby-drop': Fixed NAT LID Standby Drop; 'fixed-nat-fullcone-self-hairpinning-drop': Self-Hairpinning Drop; 'sixrd-drop': Fixed NAT IPv6 in IPv4 Packet Drop; 'dest-rlist-drop': Fixed NAT Dest Rule List Drop; 'dest-rlist-pass-through': Fixed NAT Dest Rule List Pass-Through; 'dest-rlist-snat-drop': Fixed NAT Dest Rules List Source NAT Drop; 'cross-cpu-helper-created': Cross CPU Helper Session Created; 'cross-cpu-helper-free-retry-lookup': Cross CPU Helper Session Free Retry Lookup; 'cross-cpu-helper-free-not-found': Cross CPU Helper Session Free not Found; 'cross-cpu-helper-free': Cross CPU Helper Session Freed; 'cross-cpu-rcv': Cross CPU Helper Packets Received; 'cross-cpu-bad-l3': Cross CPU Unsupported L3; 'cross-cpu-bad-l4': Cross CPU Unsupported L4; 'cross-cpu-no-session': Cross CPU no Session Found; 'cross-cpu-helper-deleted': Cross CPU Helper Session Deleted; 'cross-cpu-helper-fixed-nat-lid-standby': Cross CPU Helper Fixed NAT LID Standby; 'cross-cpu-helper-cpu-mismatch': Cross CPU Helper CPU Mismatch; 'cross-cpu-sent': Cross CPU Helper Packets Sent; 'config-not-found': Fixed NAT Config not Found; 'fullcone-in-del-q': Full-Cone Session in Delete Queue; 'fullcone-overflow': Full-Cone Session Conn-Count Overflow; 'fullcone-inbound-idx-mismatch': Full-Cone Session Fixed NAT LID mismatch; 'fullcone-retry-lookup': Full-cone session retry look-up; 'fullcone-not-found': Full-cone session not found; 'fullcone-overflow-eim': Full-cone EIM Overflow; 'fullcone-overflow-eif': Full-cone EIF Overflow; 'ha-config-mismatch': HA Fixed NAT Config Mismatch; 'ha-user-quota-exceeded': HA User Quota Exceeded; 'ha-fullcone-mismatch': HA Full-Cone Mismatch; 'ha-dnat-mismatch': HA Destination NAT Config Mismatch; 'ha-nat-port-unavailable': HA NAT Port Unavailable; 'ha-fullcone-failure': HA Full-Cone Failure; 'ha-endpoint-indep-map-match': HA Endpoint-Independent-Mapping Match; 'udp-alg-eim-mismatch': UDP ALG Endpoint-Independent Mapping Mismatch; 'udp-alg-no-nat-ip': UDP ALG User-Quota Unknown NAT IP; 'udp-alg-alloc-failure': UDP ALG Port Allocation Failure; 'mtu-exceeded': Packet Exceeded MTU; 'frag': Fragmented Packets; 'frag-icmp': ICMP Packet Too Big Sent; 'periodic-log-msg-alloc': Fixed NAT Periodic Log Msg Allocated; 'periodic-log-msg-free': Fixed NAT Periodic Log Msg Freed; 'disable-log-msg-alloc': Fixed NAT Disable Log Msg Allocated; 'disable-log-msg-free': Fixed NAT Disable Log Msg Freed; 'sip-alg-reuse-contact-fullcone': SIP ALG Reuse Contact Full-cone Session; 'sip-alg-contact-fullcone-mismatch': SIP ALG Contact Full-cone Session Mismatch; 'sip-alg-create-contact-fullcone-failure': SIP ALG Create Contact Full-cone Session Failure; 'sip-alg-single-rtp-fullcone': SIP ALG Single RTP Full-cone Found; 'sip-alg-rtcp-fullcone-mismatch': SIP ALG RTCP Full-cone NAT Port Mismatch; 'sip-alg-reuse-rtp-rtcp-fullcone': SIP ALG Reuse

RTP/RTCP Full-cone Session; 'sip-alg-single-rtcp-fullcone': SIP ALG Single RTCP Full-cone Found; 'sip-alg-create-rtp-fullcone-failure': SIP ALG Create RTP Full-cone Session Failure; 'sip-alg-create-rtcp-fullcone-failure': SIP ALG Create RTCP Full-cone Session Failure; 'icmp-out-of-state-uqe-admin-filtered-sent': Total User Quota Exceeded ICMP admin filtered sent; 'icmp-out-of-state-uqe-host-unreachable-sent': Total User Quota Exceeded ICMP host unreachable sent; 'icmp-out-of-state-uqe-dropped': Total User Queue Exceeded ICMP notification dropped; 'nat-esp-ip-conflicts': Fixed NAT ESP IP Conflicts; 'total-tcp-allocated-shadow': Total TCP Ports Allocated; 'total-tcp-freed-shadow': Total TCP Ports Freed; 'total-udp-allocated-shadow': Total UDP Ports Allocated; 'total-udp-freed-shadow': Total UDP Ports Freed; 'total-icmp-allocated-shadow': Total ICMP Ports Allocated; 'total-icmp-freed-shadow': Total ICMP Ports Freed; 'nat44-data-session-created-shadow': NAT44 Data Sessions Created; 'nat44-data-session-freed-shadow': NAT44 Data Sessions Freed; 'nat64-data-session-created-shadow': NAT64 Data Sessions Created; 'nat64-data-session-freed-shadow': NAT64 Data Sessions Freed; 'dslite-data-session-created-shadow': DS-Lite Data Sessions Created; 'dslite-data-session-freed-shadow': DS-Lite Data Sessions Freed; 'nat44-tcp-fullcone-created-shadow': NAT44 TCP Full-Cone Created; 'nat44-tcp-fullcone-freed-shadow': NAT44 TCP Full-Cone Freed; 'nat44-udp-fullcone-created-shadow': NAT44 UDP Full-Cone Created; 'nat44-udp-fullcone-freed-shadow': NAT44 UDP Full-Cone Freed; 'nat44-udp-alg-fullcone-created-shadow': NAT44 UDP ALG Full-Cone Created;

Type: string

Supported Values: all, total-nat-in-use, total-tcp-allocated, total-tcp-freed, total-udp-allocated, total-udp-freed, total-icmp-allocated, total-icmp-freed, nat44-data-session-created, nat44-data-session-freed, nat64-data-session-created, nat64-data-session-freed, dslite-data-session-created, dslite-data-session-freed, nat-port-unavailable-tcp, nat-port-unavailable-udp, nat-port-unavailable-icmp, session-user-quota-exceeded, nat44-tcp-fullcone-created, nat44-tcp-fullcone-freed, nat44-udp-fullcone-created, nat44-udp-fullcone-freed, nat44-udp-alg-fullcone-created, nat44-udp-alg-fullcone-freed, nat64-tcp-fullcone-created, nat64-tcp-fullcone-freed, nat64-udp-fullcone-created, nat64-udp-fullcone-freed, nat64-udp-alg-fullcone-created, nat64-udp-alg-fullcone-freed, dslite-tcp-fullcone-created, dslite-tcp-fullcone-freed, dslite-udp-fullcone-created, dslite-udp-fullcone-freed, dslite-udp-alg-fullcone-created, dslite-udp-alg-fullcone-freed, fullcone-failure, nat44-eim-match, nat64-eim-match, dslite-eim-match, nat44-eif-match, nat64-eif-match, dslite-eif-match, nat44-inbound-filtered, nat64-inbound-filtered, dslite-inbound-filtered, nat44-eif-limit-exceeded, nat64-eif-limit-exceeded, dslite-eif-limit-exceeded, nat44-hairpin, nat64-hairpin, dslite-hairpin, standby-drop, fixed-nat-fullcone-self-hairpinning-drop, sixrd-drop, dest-rlist-drop, dest-rlist-pass-through, dest-rlist-snat-drop, cross-cpu-helper-created, cross-cpu-helper-free-retry-lookup, cross-cpu-helper-free-not-found, cross-cpu-helper-free, cross-cpu-rcv, cross-cpu-bad-l3, cross-cpu-bad-l4, cross-cpu-no-session, cross-cpu-helper-deleted, cross-cpu-helper-fixed-nat-lid-standby, cross-cpu-helper-cpu-mismatch, cross-cpu-sent, config-not-found, fullcone-in-del-q, fullcone-overflow, fullcone-inbound-idx-mismatch, fullcone-retry-lookup, fullcone-not-found, fullcone-overflow-eim, fullcone-overflow-eif, ha-config-mismatch, ha-user-quota-exceeded, ha-fullcone-mismatch, ha-dnat-mismatch, ha-nat-port-unavailable, ha-fullcone-failure, ha-endpoint-indep-map-match, udp-alg-eim-mismatch, udp-alg-no-nat-ip, udp-alg-alloc-failure, mtu-exceeded, frag, frag-icmp, periodic-log-msg-alloc, periodic-log-msg-free, disable-log-msg-alloc, disable-log-msg-free, sip-alg-reuse-contact-fullcone, sip-alg-contact-fullcone-mismatch, sip-alg-create-contact-fullcone-failure, sip-alg-single-rtp-fullcone, sip-alg-rtcp-fullcone-mismatch, sip-alg-reuse-rtp-rtcp-fullcone, sip-alg-single-rtcp-fullcone, sip-alg-create-rtp-fullcone-failure, sip-alg-create-rtcp-fullcone-failure, icmp-out-of-state-uqe-admin-filtered-sent, icmp-out-of-state-uqe-host-unreachable-sent, icmp-out-of-state-uqe-dropped, nat-esp-ip-conflicts, total-tcp-allocated-shadow, total-tcp-freed-shadow, total-udp-allocated-shadow, total-udp-freed-shadow, total-icmp-allocated-shadow, total-icmp-freed-shadow, nat44-data-session-created-shadow, nat44-data-session-freed-shadow, nat64-data-session-created-shadow, nat64-data-session-freed-shadow, dslite-data-session-

created-shadow, dslite-data-session-freed-shadow, nat44-tcp-fullcone-created-shadow, nat44-tcp-fullcone-freed-shadow, nat44-udp-fullcone-created-shadow, nat44-udp-fullcone-freed-shadow, nat44-udp-alg-fullcone-created-shadow

counters2

Description 'nat44-udp-alg-fullcone-freed-shadow': NAT44 UDP ALG Full-Cone Freed; 'nat64-tcp-fullcone-created-shadow': NAT64 TCP Full-Cone Created; 'nat64-tcp-fullcone-freed-shadow': NAT64 TCP Full-Cone Freed; 'nat64-udp-fullcone-created-shadow': NAT64 UDP Full-Cone Created; 'nat64-udp-fullcone-freed-shadow': NAT64 UDP Full-Cone Freed; 'nat64-udp-alg-fullcone-created-shadow': NAT64 UDP ALG Full-Cone Created; 'nat64-udp-alg-fullcone-freed-shadow': NAT64 UDP ALG Full-Cone Freed; 'dslite-tcp-fullcone-created-shadow': DS-Lite TCP Full-Cone Created; 'dslite-tcp-fullcone-freed-shadow': DS-Lite TCP Full-Cone Freed; 'dslite-udp-fullcone-created-shadow': DS-Lite UDP Full-Cone Created; 'dslite-udp-fullcone-freed-shadow': DS-Lite UDP Full-Cone Freed; 'dslite-udp-alg-fullcone-created-shadow': DS-Lite UDP ALG Full-Cone Created; 'dslite-udp-alg-fullcone-freed-shadow': DS-Lite UDP ALG Full-Cone Freed; 'h323-alg-reuse-fullcone': H323 ALG Reuse Full-cone Session; 'h323-alg-fullcone-mismatch': H323 ALG Full-cone Session Mismatch; 'h323-alg-create-fullcone-failure': H323 ALG Create Full-cone Session Failure; 'h323-alg-single-rtp-fullcone': H323 ALG Single RTP Full-cone Found; 'h323-alg-rtcp-fullcone-mismatch': H323 ALG RTCP Full-cone NAT Port Mismatch; 'h323-alg-reuse-rtp-rtcp-fullcone': H323 ALG Reuse RTP/RTCP Full-cone Session; 'h323-alg-single-rtcp-fullcone': H323 ALG Single RTCP Full-cone Found; 'h323-alg-create-rtp-fullcone-failure': H323 ALG Create RTP Full-cone Session Failure; 'h323-alg-create-rtcp-fullcone-failure': H323 ALG Create RTCP Full-cone Session Failure; 'mgcp-alg-reuse-fullcone': MGCP ALG Reuse Full-cone Session; 'mgcp-alg-fullcone-mismatch': MGCP ALG Full-cone Session Mismatch; 'mgcp-alg-create-fullcone-failure': MGCP ALG Create Full-cone Session Failure; 'mgcp-alg-single-rtp-fullcone': MGCP ALG Single RTP Full-cone Found; 'mgcp-alg-rtcp-fullcone-mismatch': MGCP ALG RTCP Full-cone NAT Port Mismatch; 'mgcp-alg-reuse-rtp-rtcp-fullcone': MGCP ALG Reuse RTP/RTCP Full-cone Session; 'mgcp-alg-single-rtcp-fullcone': MGCP ALG Single RTCP Full-cone Found; 'mgcp-alg-create-rtp-fullcone-failure': MGCP ALG Create RTP Full-cone Session Failure; 'mgcp-alg-create-rtcp-fullcone-failure': MGCP ALG Create RTCP Full-cone Session Failure; 'user-unusable-drop': Fixed NAT User Unusable Drop; 'ipv4-user-unusable': Fixed NAT IPv4 User Marked Unusable; 'ipv6-user-unusable': Fixed NAT IPv6 User Marked Unusable; 'ipd-disabled': Fixed NAT IPD disabled; 'dslite_tunnel_frag': IPv4 Fragment DS-Lite Packet; 'total-tcp-overload-acquired': Total TCP ports acquired for port overloading; 'total-udp-overload-acquired': Total UDP ports acquired for port overloading; 'total-tcp-overload-released': Total TCP ports released from port overloading; 'total-udp-overload-released': Total UDP ports released from port overloading; 'total-tcp-alloc-overload': Total TCP ports allocated via overload; 'total-udp-alloc-overload': Total UDP ports allocated via overload; 'total-tcp-free-overload': Total TCP ports freed via overload; 'total-udp-free-overload': Total UDP ports freed via overload; 'port-overload-smp-delete-scheduled': Port overload SMP conn delete scheduled; 'port-overload-smp-mem-allocated': Port overload SMP mem allocated; 'port-overload-out-of-memory': Port overload out of memory; 'port-overload-smp-free': Port overload SMP conn free; 'port-overload-smp-free-no-lid': Port overload SMP conn free no lid; 'port-overload-free-smp-not-found': Port overload free SMP conn not found; 'port-overload-failed': Port overload failed; 'total-tcp-overload-acquired-shadow': Total TCP ports acquired for port overloading shadow; 'total-udp-overload-acquired-shadow': Total UDP ports acquired for port overloading shadow; 'total-tcp-overload-released-shadow': Total TCP ports released from port overloading shadow; 'total-udp-overload-released-shadow': Total UDP ports released from port overloading shadow; 'total-tcp-alloc-overload-shadow': Total TCP allocated via overload shadow; 'total-udp-alloc-overload-shadow': Total UDP allocated via overload shadow; 'total-tcp-free-overload-shadow': Total TCP freed via overload shadow; 'total-udp-free-

overload-shadow': Total UDP freed via overload shadow; 'ha-session-user-quota-exceeded': HA Sessions User Quota Exceeded; 'tcp-user-quota-exceeded': TCP User Quota Exceeded; 'udp-user-quota-exceeded': UDP User Quota Exceeded; 'icmp-user-quota-exceeded': ICMP User Quota Exceeded; 'ha-tcp-user-quota-exceeded': HA TCP User Quota Exceeded; 'ha-udp-user-quota-exceeded': HA UDP User Quota Exceeded; 'ha-icmp-user-quota-exceeded': HA ICMP User Quota Exceeded; 'ha-nat-port-unavailable-tcp': HA TCP NAT Port Unavailable; 'ha-nat-port-unavailable-udp': HA UDP NAT Port Unavailable; 'ha-nat-port-unavailable-icmp': HA ICMP NAT Port Unavailable; 'fnat44_fwd_ingress_packets_tcp': Fixed NAT44 Forward Ingress Packets TCP; 'fnat44_fwd_egress_packets_tcp': Fixed NAT44 Forward Egress Packets TCP; 'fnat44_rev_ingress_packets_tcp': Fixed NAT44 Reverse Ingress Packets TCP; 'fnat44_rev_egress_packets_tcp': Fixed NAT44 Reverse Egress Packets TCP; 'fnat44_fwd_ingress_bytes_tcp': Fixed NAT44 Forward Ingress Bytes TCP; 'fnat44_fwd_egress_bytes_tcp': Fixed NAT44 Forward Egress Bytes TCP; 'fnat44_rev_ingress_bytes_tcp': Fixed NAT44 Reverse Ingress Bytes TCP; 'fnat44_rev_egress_bytes_tcp': Fixed NAT44 Reverse Egress Bytes TCP; 'fnat44_fwd_ingress_packets_udp': Fixed NAT44 Forward Ingress Packets UDP; 'fnat44_fwd_egress_packets_udp': Fixed NAT44 Forward Egress Packets UDP; 'fnat44_rev_ingress_packets_udp': Fixed NAT44 Reverse Ingress Packets UDP; 'fnat44_rev_egress_packets_udp': Fixed NAT44 Reverse Egress Packets UDP; 'fnat44_fwd_ingress_bytes_udp': Fixed NAT44 Forward Ingress Bytes UDP; 'fnat44_fwd_egress_bytes_udp': Fixed NAT44 Forward Egress Bytes UDP; 'fnat44_rev_ingress_bytes_udp': Fixed NAT44 Reverse Ingress Bytes UDP; 'fnat44_rev_egress_bytes_udp': Fixed NAT44 Reverse Egress Bytes UDP; 'fnat44_fwd_ingress_packets_icmp': Fixed NAT44 Forward Ingress Packets ICMP; 'fnat44_fwd_egress_packets_icmp': Fixed NAT44 Forward Egress Packets ICMP; 'fnat44_rev_ingress_packets_icmp': Fixed NAT44 Reverse Ingress Packets ICMP; 'fnat44_rev_egress_packets_icmp': Fixed NAT44 Reverse Egress Packets ICMP; 'fnat44_fwd_ingress_bytes_icmp': Fixed NAT44 Forward Ingress Bytes ICMP; 'fnat44_fwd_egress_bytes_icmp': Fixed NAT44 Forward Egress Bytes ICMP; 'fnat44_rev_ingress_bytes_icmp': Fixed NAT44 Reverse Ingress Bytes ICMP; 'fnat44_rev_egress_bytes_icmp': Fixed NAT44 Reverse Egress Bytes ICMP; 'fnat44_fwd_ingress_packets_others': Fixed NAT44 Forward Ingress Packets OTHERS; 'fnat44_fwd_egress_packets_others': Fixed NAT44 Forward Egress Packets OTHERS; 'fnat44_rev_ingress_packets_others': Fixed NAT44 Reverse Ingress Packets OTHERS; 'fnat44_rev_egress_packets_others': Fixed NAT44 Reverse Egress Packets OTHERS; 'fnat44_fwd_ingress_bytes_others': Fixed NAT44 Forward Ingress Bytes OTHERS; 'fnat44_fwd_egress_bytes_others': Fixed NAT44 Forward Egress Bytes OTHERS; 'fnat44_rev_ingress_bytes_others': Fixed NAT44 Reverse Ingress Bytes OTHERS; 'fnat44_rev_egress_bytes_others': Fixed NAT44 Reverse Egress Bytes OTHERS; 'fnat44_fwd_ingress_pkt_size_range1': Fixed NAT44 Forward Ingress Packet size between 0 and 200; 'fnat44_fwd_ingress_pkt_size_range2': Fixed NAT44 Forward Ingress Packet size between 201 and 800; 'fnat44_fwd_ingress_pkt_size_range3': Fixed NAT44 Forward Ingress Packet size between 801 and 1550; 'fnat44_fwd_ingress_pkt_size_range4': Fixed NAT44 Forward Ingress Packet size between 1551 and 9000; 'fnat44_fwd_egress_pkt_size_range1': Fixed NAT44 Forward Egress Packet size between 0 and 200;

Type: string

Supported Values: nat44-udp-alg-fullcone-freed-shadow, nat64-tcp-fullcone-created-shadow, nat64-tcp-fullcone-freed-shadow, nat64-udp-fullcone-created-shadow, nat64-udp-fullcone-freed-shadow, nat64-udp-alg-fullcone-created-shadow, nat64-udp-alg-fullcone-freed-shadow, dslite-tcp-fullcone-created-shadow, dslite-tcp-fullcone-freed-shadow, dslite-udp-fullcone-created-shadow, dslite-udp-fullcone-freed-shadow, dslite-udp-alg-fullcone-created-shadow, dslite-udp-alg-fullcone-freed-shadow, h323-alg-reuse-fullcone, h323-alg-fullcone-mismatch, h323-alg-create-fullcone-failure, h323-alg-single-rtp-fullcone, h323-alg-rtcp-fullcone-

mismatch, h323-alg-reuse-rtp-rtcp-fullcone, h323-alg-single-rtcp-fullcone, h323-alg-create-rtp-fullcone-failure, h323-alg-create-rtcp-fullcone-failure, mgcp-alg-reuse-fullcone, mgcp-alg-fullcone-mismatch, mgcp-alg-create-fullcone-failure, mgcp-alg-single-rtp-fullcone, mgcp-alg-rtcp-fullcone-mismatch, mgcp-alg-reuse-rtp-rtcp-fullcone, mgcp-alg-single-rtcp-fullcone, mgcp-alg-create-rtp-fullcone-failure, mgcp-alg-create-rtcp-fullcone-failure, user-unusable-drop, ipv4-user-unusable, ipv6-user-unusable, ipd-disabled, dslite_tunnel_frag, total-tcp-overload-acquired, total-udp-overload-acquired, total-tcp-overload-released, total-udp-overload-released, total-tcp-alloc-overload, total-udp-alloc-overload, total-tcp-free-overload, total-udp-free-overload, port-overload-smp-delete-scheduled, port-overload-smp-mem-allocated, port-overload-out-of-memory, port-overload-smp-free, port-overload-smp-free-no-lid, port-overload-free-smp-not-found, port-overload-failed, total-tcp-overload-acquired-shadow, total-udp-overload-acquired-shadow, total-tcp-overload-released-shadow, total-udp-overload-released-shadow, total-tcp-alloc-overload-shadow, total-udp-alloc-overload-shadow, total-tcp-free-overload-shadow, total-udp-free-overload-shadow, ha-session-user-quota-exceeded, tcp-user-quota-exceeded, udp-user-quota-exceeded, icmp-user-quota-exceeded, ha-tcp-user-quota-exceeded, ha-udp-user-quota-exceeded, ha-icmp-user-quota-exceeded, ha-nat-port-unavailable-tcp, ha-nat-port-unavailable-udp, ha-nat-port-unavailable-icmp, fnat44_fwd_ingress_packets_tcp, fnat44_fwd_egress_packets_tcp, fnat44_rev_ingress_packets_tcp, fnat44_rev_egress_packets_tcp, fnat44_fwd_ingress_bytes_tcp, fnat44_fwd_egress_bytes_tcp, fnat44_rev_ingress_bytes_tcp, fnat44_rev_egress_bytes_tcp, fnat44_fwd_ingress_packets_udp, fnat44_fwd_egress_packets_udp, fnat44_rev_ingress_packets_udp, fnat44_rev_egress_packets_udp, fnat44_fwd_ingress_bytes_udp, fnat44_fwd_egress_bytes_udp, fnat44_rev_ingress_bytes_udp, fnat44_rev_egress_bytes_udp, fnat44_fwd_ingress_packets_icmp, fnat44_fwd_egress_packets_icmp, fnat44_rev_ingress_packets_icmp, fnat44_rev_egress_packets_icmp, fnat44_fwd_ingress_bytes_icmp, fnat44_fwd_egress_bytes_icmp, fnat44_rev_ingress_bytes_icmp, fnat44_rev_egress_bytes_icmp, fnat44_fwd_ingress_packets_others, fnat44_fwd_egress_packets_others, fnat44_rev_ingress_packets_others, fnat44_rev_egress_packets_others, fnat44_fwd_ingress_bytes_others, fnat44_fwd_egress_bytes_others, fnat44_rev_ingress_bytes_others, fnat44_rev_egress_bytes_others, fnat44_fwd_ingress_pkt_size_range1, fnat44_fwd_ingress_pkt_size_range2, fnat44_fwd_ingress_pkt_size_range3, fnat44_fwd_ingress_pkt_size_range4, fnat44_fwd_egress_pkt_size_range1

counters3

Description 'fnat44_fwd_egress_pkt_size_range2': Fixed NAT44 Forward Egress Packet size between 201 and 800; 'fnat44_fwd_egress_pkt_size_range3': Fixed NAT44 Forward Egress Packet size between 801 and 1550; 'fnat44_fwd_egress_pkt_size_range4': Fixed NAT44 Forward Egress Packet size between 1551 and 9000; 'fnat44_rev_ingress_pkt_size_range1': Fixed NAT44 Reverse Ingress Packet size between 0 and 200; 'fnat44_rev_ingress_pkt_size_range2': Fixed NAT44 Reverse Ingress Packet size between 201 and 800; 'fnat44_rev_ingress_pkt_size_range3': Fixed NAT44 Reverse Ingress Packet size between 801 and 1550; 'fnat44_rev_ingress_pkt_size_range4': Fixed NAT44 Reverse Ingress Packet size between 1551 and 9000; 'fnat44_rev_egress_pkt_size_range1': Fixed NAT44 Reverse Egress Packet size between 0 and 200; 'fnat44_rev_egress_pkt_size_range2': Fixed NAT44 Reverse Egress Packet size between 201 and 800; 'fnat44_rev_egress_pkt_size_range3': Fixed NAT44 Reverse Egress Packet size between 801 and 1550; 'fnat44_rev_egress_pkt_size_range4': Fixed NAT44 Reverse Egress Packet size between 1551 and 9000; 'fnat64_fwd_ingress_packets_tcp': Fixed NAT64 Forward Ingress Packets TCP; 'fnat64_fwd_egress_packets_tcp': Fixed NAT64 Forward Egress Packets TCP; 'fnat64_rev_ingress_packets_tcp': Fixed NAT64 Reverse Ingress Packets TCP; 'fnat64_rev_egress_packets_tcp':

Fixed NAT64 Reverse Egress Packets TCP; 'fnat64_fwd_ingress_bytes_tcp': Fixed NAT64 Forward Ingress Bytes TCP; 'fnat64_fwd_egress_bytes_tcp': Fixed NAT64 Forward Egress Bytes TCP; 'fnat64_rev_ingress_bytes_tcp': Fixed NAT64 Reverse Ingress Bytes TCP; 'fnat64_rev_egress_bytes_tcp': Fixed NAT64 Reverse Egress Bytes TCP; 'fnat64_fwd_ingress_packets_udp': Fixed NAT64 Forward Ingress Packets UDP; 'fnat64_fwd_egress_packets_udp': Fixed NAT64 Forward Egress Packets UDP; 'fnat64_rev_ingress_packets_udp': Fixed NAT64 Reverse Ingress Packets UDP; 'fnat64_rev_egress_packets_udp': Fixed NAT64 Reverse Egress Packets UDP; 'fnat64_fwd_ingress_bytes_udp': Fixed NAT64 Forward Ingress Bytes UDP; 'fnat64_fwd_egress_bytes_udp': Fixed NAT64 Forward Egress Bytes UDP; 'fnat64_rev_ingress_bytes_udp': Fixed NAT64 Reverse Ingress Bytes UDP; 'fnat64_rev_egress_bytes_udp': Fixed NAT64 Reverse Egress Bytes UDP; 'fnat64_fwd_ingress_packets_icmp': Fixed NAT64 Forward Ingress Packets ICMP; 'fnat64_fwd_egress_packets_icmp': Fixed NAT64 Forward Egress Packets ICMP; 'fnat64_rev_ingress_packets_icmp': Fixed NAT64 Reverse Ingress Packets ICMP; 'fnat64_rev_egress_packets_icmp': Fixed NAT64 Reverse Egress Packets ICMP; 'fnat64_fwd_ingress_bytes_icmp': Fixed NAT64 Forward Ingress Bytes ICMP; 'fnat64_fwd_egress_bytes_icmp': Fixed NAT64 Forward Egress Bytes ICMP; 'fnat64_rev_ingress_bytes_icmp': Fixed NAT64 Reverse Ingress Bytes ICMP; 'fnat64_rev_egress_bytes_icmp': Fixed NAT64 Reverse Egress Bytes ICMP; 'fnat64_fwd_ingress_packets_others': Fixed NAT64 Forward Ingress Packets OTHERS; 'fnat64_fwd_egress_packets_others': Fixed NAT64 Forward Egress Packets OTHERS; 'fnat64_rev_ingress_packets_others': Fixed NAT64 Reverse Ingress Packets OTHERS; 'fnat64_rev_egress_packets_others': Fixed NAT64 Reverse Egress Packets OTHERS; 'fnat64_fwd_ingress_bytes_others': Fixed NAT64 Forward Ingress Bytes OTHERS; 'fnat64_fwd_egress_bytes_others': Fixed NAT64 Forward Egress Bytes OTHERS; 'fnat64_rev_ingress_bytes_others': Fixed NAT64 Reverse Ingress Bytes OTHERS; 'fnat64_rev_egress_bytes_others': Fixed NAT64 Reverse Egress Bytes OTHERS; 'fnat64_fwd_ingress_pkt_size_range1': Fixed NAT64 Forward Ingress Packet size between 0 and 200; 'fnat64_fwd_ingress_pkt_size_range2': Fixed NAT64 Forward Ingress Packet size between 201 and 800; 'fnat64_fwd_ingress_pkt_size_range3': Fixed NAT64 Forward Ingress Packet size between 801 and 1550; 'fnat64_fwd_ingress_pkt_size_range4': Fixed NAT64 Forward Ingress Packet size between 1551 and 9000; 'fnat64_fwd_egress_pkt_size_range1': Fixed NAT64 Forward Egress Packet size between 0 and 200; 'fnat64_fwd_egress_pkt_size_range2': Fixed NAT64 Forward Egress Packet size between 201 and 800; 'fnat64_fwd_egress_pkt_size_range3': Fixed NAT64 Forward Egress Packet size between 801 and 1550; 'fnat64_fwd_egress_pkt_size_range4': Fixed NAT64 Forward Egress Packet size between 1551 and 9000; 'fnat64_rev_ingress_pkt_size_range1': Fixed NAT64 Reverse Ingress Packet size between 0 and 200; 'fnat64_rev_ingress_pkt_size_range2': Fixed NAT64 Reverse Ingress Packet size between 201 and 800; 'fnat64_rev_ingress_pkt_size_range3': Fixed NAT64 Reverse Ingress Packet size between 801 and 1550; 'fnat64_rev_ingress_pkt_size_range4': Fixed NAT64 Reverse Ingress Packet size between 1551 and 9000; 'fnat64_rev_egress_pkt_size_range1': Fixed NAT64 Reverse Egress Packet size between 0 and 200; 'fnat64_rev_egress_pkt_size_range2': Fixed NAT64 Reverse Egress Packet size between 201 and 800; 'fnat64_rev_egress_pkt_size_range3': Fixed NAT64 Reverse Egress Packet size between 801 and 1550; 'fnat64_rev_egress_pkt_size_range4': Fixed NAT64 Reverse Egress Packet size between 1551 and 9000; 'fnatdslite_fwd_ingress_packets_tcp': Fixed DS-Lite Forward Ingress Packets TCP; 'fnatdslite_fwd_egress_packets_tcp': Fixed DS-Lite Forward Egress Packets TCP; 'fnatdslite_rev_ingress_packets_tcp': Fixed DS-Lite Reverse Ingress Packets TCP; 'fnatdslite_rev_egress_packets_tcp': Fixed DS-Lite Reverse Egress Packets TCP; 'fnatdslite_fwd_ingress_bytes_tcp': Fixed DS-Lite Forward Ingress Bytes TCP; 'fnatdslite_fwd_egress_bytes_tcp': Fixed DS-Lite Forward Egress Bytes TCP; 'fnatdslite_rev_ingress_bytes_tcp': Fixed DS-Lite Reverse Ingress Bytes TCP; 'fnatdslite_rev_egress_bytes_tcp': Fixed DS-Lite Reverse Egress

Bytes TCP; 'fnatdslite_fwd_ingress_packets_udp': Fixed DS-Lite Forward Ingress Packets UDP; 'fnatdslite_fwd_egress_packets_udp': Fixed DS-Lite Forward Egress Packets UDP; 'fnatdslite_rev_ingress_packets_udp': Fixed DS-Lite Reverse Ingress Packets UDP; 'fnatdslite_rev_egress_packets_udp': Fixed DS-Lite Reverse Egress Packets UDP; 'fnatdslite_fwd_ingress_bytes_udp': Fixed DS-Lite Forward Ingress Bytes UDP; 'fnatdslite_fwd_egress_bytes_udp': Fixed DS-Lite Forward Egress Bytes UDP; 'fnatdslite_rev_ingress_bytes_udp': Fixed DS-Lite Reverse Ingress Bytes UDP; 'fnatdslite_rev_egress_bytes_udp': Fixed DS-Lite Reverse Egress Bytes UDP; 'fnatdslite_fwd_ingress_packets_icmp': Fixed DS-Lite Forward Ingress Packets ICMP; 'fnatdslite_fwd_egress_packets_icmp': Fixed DS-Lite Forward Egress Packets ICMP; 'fnatdslite_rev_ingress_packets_icmp': Fixed DS-Lite Reverse Ingress Packets ICMP; 'fnatdslite_rev_egress_packets_icmp': Fixed DS-Lite Reverse Egress Packets ICMP; 'fnatdslite_fwd_ingress_bytes_icmp': Fixed DS-Lite Forward Ingress Bytes ICMP; 'fnatdslite_fwd_egress_bytes_icmp': Fixed DS-Lite Forward Egress Bytes ICMP; 'fnatdslite_rev_ingress_bytes_icmp': Fixed DS-Lite Reverse Ingress Bytes ICMP; 'fnatdslite_rev_egress_bytes_icmp': Fixed DS-Lite Reverse Egress Bytes ICMP; 'fnatdslite_fwd_ingress_packets_others': Fixed DS-Lite Forward Ingress Packets OTHERS; 'fnatdslite_fwd_egress_packets_others': Fixed DS-Lite Forward Egress Packets OTHERS; 'fnatdslite_rev_ingress_packets_others': Fixed DS-Lite Reverse Ingress Packets OTHERS; 'fnatdslite_rev_egress_packets_others': Fixed DS-Lite Reverse Egress Packets OTHERS; 'fnatdslite_fwd_ingress_bytes_others': Fixed DS-Lite Forward Ingress Bytes OTHERS; 'fnatdslite_fwd_egress_bytes_others': Fixed DS-Lite Forward Egress Bytes OTHERS; 'fnatdslite_rev_ingress_bytes_others': Fixed DS-Lite Reverse Ingress Bytes OTHERS; 'fnatdslite_rev_egress_bytes_others': Fixed DS-Lite Reverse Egress Bytes OTHERS; 'fnatdslite_fwd_ingress_pkt_size_range1': Fixed DS-Lite Forward Ingress Packet size between 0 and 200;

Type: string

Supported Values: fnat44_fwd_egress_pkt_size_range2, fnat44_fwd_egress_pkt_size_range3, fnat44_fwd_egress_pkt_size_range4, fnat44_rev_ingress_pkt_size_range1, fnat44_rev_ingress_pkt_size_range2, fnat44_rev_ingress_pkt_size_range3, fnat44_rev_ingress_pkt_size_range4, fnat44_rev_egress_pkt_size_range1, fnat44_rev_egress_pkt_size_range2, fnat44_rev_egress_pkt_size_range3, fnat44_rev_egress_pkt_size_range4, fnat64_fwd_ingress_packets_tcp, fnat64_fwd_egress_packets_tcp, fnat64_rev_ingress_packets_tcp, fnat64_rev_egress_packets_tcp, fnat64_fwd_ingress_bytes_tcp, fnat64_fwd_egress_bytes_tcp, fnat64_rev_ingress_bytes_tcp, fnat64_rev_egress_bytes_tcp, fnat64_fwd_ingress_packets_udp, fnat64_fwd_egress_packets_udp, fnat64_rev_ingress_packets_udp, fnat64_rev_egress_packets_udp, fnat64_fwd_ingress_bytes_udp, fnat64_fwd_egress_bytes_udp, fnat64_rev_ingress_bytes_udp, fnat64_rev_egress_bytes_udp, fnat64_fwd_ingress_packets_icmp, fnat64_fwd_egress_packets_icmp, fnat64_rev_ingress_packets_icmp, fnat64_rev_egress_packets_icmp, fnat64_fwd_ingress_bytes_icmp, fnat64_fwd_egress_bytes_icmp, fnat64_rev_ingress_bytes_icmp, fnat64_rev_egress_bytes_icmp, fnat64_fwd_ingress_packets_others, fnat64_fwd_egress_packets_others, fnat64_rev_ingress_packets_others, fnat64_rev_egress_packets_others, fnat64_fwd_ingress_bytes_others, fnat64_fwd_egress_bytes_others, fnat64_rev_ingress_bytes_others, fnat64_rev_egress_bytes_others, fnat64_fwd_ingress_pkt_size_range1, fnat64_fwd_ingress_pkt_size_range2, fnat64_fwd_ingress_pkt_size_range3, fnat64_fwd_ingress_pkt_size_range4, fnat64_fwd_egress_pkt_size_range1, fnat64_fwd_egress_pkt_size_range2, fnat64_fwd_egress_pkt_size_range3, fnat64_fwd_egress_pkt_size_range4, fnat64_rev_ingress_pkt_size_range1, fnat64_rev_ingress_pkt_size_range2,

fnat64_rev_ingress_pkt_size_range3, fnat64_rev_ingress_pkt_size_range4, fnat64_rev_egress_pkt_size_range1, fnat64_rev_egress_pkt_size_range2, fnat64_rev_egress_pkt_size_range3, fnat64_rev_egress_pkt_size_range4, fnatdslite_fwd_ingress_packets_tcp, fnatdslite_fwd_egress_packets_tcp, fnatdslite_rev_ingress_packets_tcp, fnatdslite_rev_egress_packets_tcp, fnatdslite_fwd_ingress_bytes_tcp, fnatdslite_fwd_egress_bytes_tcp, fnatdslite_rev_ingress_bytes_tcp, fnatdslite_rev_egress_bytes_tcp, fnatdslite_fwd_ingress_packets_udp, fnatdslite_fwd_egress_packets_udp, fnatdslite_rev_ingress_packets_udp, fnatdslite_rev_egress_packets_udp, fnatdslite_fwd_ingress_bytes_udp, fnatdslite_fwd_egress_bytes_udp, fnatdslite_rev_ingress_bytes_udp, fnatdslite_rev_egress_bytes_udp, fnatdslite_fwd_ingress_packets_icmp, fnatdslite_fwd_egress_packets_icmp, fnatdslite_rev_ingress_packets_icmp, fnatdslite_rev_egress_packets_icmp, fnatdslite_fwd_ingress_bytes_icmp, fnatdslite_fwd_egress_bytes_icmp, fnatdslite_rev_ingress_bytes_icmp, fnatdslite_rev_egress_bytes_icmp, fnatdslite_fwd_ingress_packets_others, fnatdslite_fwd_egress_packets_others, fnatdslite_rev_ingress_packets_others, fnatdslite_rev_egress_packets_others, fnatdslite_fwd_ingress_bytes_others, fnatdslite_fwd_egress_bytes_others, fnatdslite_rev_ingress_bytes_others, fnatdslite_rev_egress_bytes_others, fnatdslite_fwd_ingress_pkt_size_range1

counters4

Description 'fnatdslite_fwd_ingress_pkt_size_range2': Fixed DS-Lite Forward Ingress Packet size between 201 and 800; 'fnatdslite_fwd_ingress_pkt_size_range3': Fixed DS-Lite Forward Ingress Packet size between 801 and 1550; 'fnatdslite_fwd_ingress_pkt_size_range4': Fixed DS-Lite Forward Ingress Packet size between 1551 and 9000; 'fnatdslite_fwd_egress_pkt_size_range1': Fixed DS-Lite Forward Egress Packet size between 0 and 200; 'fnatdslite_fwd_egress_pkt_size_range2': Fixed DS-Lite Forward Egress Packet size between 201 and 800; 'fnatdslite_fwd_egress_pkt_size_range3': Fixed DS-Lite Forward Egress Packet size between 801 and 1550; 'fnatdslite_fwd_egress_pkt_size_range4': Fixed DS-Lite Forward Egress Packet size between 1551 and 9000; 'fnatdslite_rev_ingress_pkt_size_range1': Fixed DS-Lite Reverse Ingress Packet size between 0 and 200; 'fnatdslite_rev_ingress_pkt_size_range2': Fixed DS-Lite Reverse Ingress Packet size between 201 and 800; 'fnatdslite_rev_ingress_pkt_size_range3': Fixed DS-Lite Reverse Ingress Packet size between 801 and 1550; 'fnatdslite_rev_ingress_pkt_size_range4': Fixed DS-Lite Reverse Ingress Packet size between 1551 and 9000; 'fnatdslite_rev_egress_pkt_size_range1': Fixed DS-Lite Reverse Egress Packet size between 0 and 200; 'fnatdslite_rev_egress_pkt_size_range2': Fixed DS-Lite Reverse Egress Packet size between 201 and 800; 'fnatdslite_rev_egress_pkt_size_range3': Fixed DS-Lite Reverse Egress Packet size between 801 and 1550; 'fnatdslite_rev_egress_pkt_size_range4': Fixed DS-Lite Reverse Egress Packet size between 1551 and 9000; 'active-subscriber-added': Active Subscriber Added; 'active-subscriber-removed': Active Subscriber Removed; 'config-not-found-in-ctx': Fixed NAT Config Pointer Not Found in MY_CTX;

Type: string

Supported Values: fnatdslite_fwd_ingress_pkt_size_range2, fnatdslite_fwd_ingress_pkt_size_range3, fnatdslite_fwd_ingress_pkt_size_range4, fnatdslite_fwd_egress_pkt_size_range1, fnatdslite_fwd_egress_pkt_size_range2, fnatdslite_fwd_egress_pkt_size_range3, fnatdslite_fwd_egress_pkt_size_range4, fnatdslite_rev_ingress_pkt_size_range1, fnatdslite_rev_ingress_pkt_size_range2, fnatdslite_rev_ingress_pkt_size_range3, fnatdslite_rev_ingress_pkt_size_range4, fnatdslite_rev_egress_pkt_size_range1, fnatdslite_rev_egress_pkt_size_range2, fnatdslite_rev_egress_pkt_size_range3, fnatdslite_rev_egress_pkt_size_range4, active-subscriber-added, active-subscriber-removed, config-not-found-in-ctx

2.26.64 cgnv6 fixed-nat global stats

Statistics for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/fixed-nat/global/stats
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/global/stats

global attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/global/stats

global attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/global/stats

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/global/stats

global attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/global/stats

global attributes

global attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

active-subscriber-added

Description Active Subscriber Added

Type: number

Format: counter

active-subscriber-removed

Description Active Subscriber Removed

Type: number

Format: counter

config-not-found

Description Fixed NAT Config not Found

Type: number

Format: counter

dest-rlist-drop

Description Fixed NAT Dest Rule List Drop

Type: number

Format: counter

dest-rlist-pass-through

Description Fixed NAT Dest Rule List Pass-Through

Type: number

Format: counter

dest-rlist-snat-drop

Description Fixed NAT Dest Rules List Source NAT Drop

Type: number

Format: counter

dslite-data-session-created

Description DS-Lite Data Sessions Created

Type: number

Format: counter

dslite-data-session-freed

Description DS-Lite Data Sessions Freed

Type: number

Format: counter

dslite-eif-limit-exceeded

Description DS-Lite Endpoint-Independent-Filtering Limit Exceeded

Type: number

Format: counter

dslite-eif-match

Description DS-Lite Endpoint-Independent-Filtering Matched

Type: number

Format: counter

dslite-eim-match

Description DS-Lite Endpoint-Independent-Mapping Matched

Type: number

Format: counter

dslite-hairpin

Description DS-Lite Hairpin Session Created

Type: number

Format: counter

dslite-inbound-filtered

Description DS-Lite Endpoint-Dependent Filtering Drop

Type: number

Format: counter

dslite-tcp-fullcone-created

Description DS-Lite TCP Full-Cone Created

Type: number

Format: counter

dslite-tcp-fullcone-freed

Description DS-Lite TCP Full-Cone Freed

Type: number

Format: counter

dslite-udp-alg-fullcone-created

Description DS-Lite UDP ALG Full-Cone Created

Type: number

Format: counter

dslite-udp-alg-fullcone-freed

Description DS-Lite UDP ALG Full-Cone Freed

Type: number

Format: counter

dslite-udp-fullcone-created

Description DS-Lite UDP Full-Cone Created

Type: number

Format: counter

dslite-udp-fullcone-freed

Description DS-Lite UDP Full-Cone Freed

Type: number

Format: counter

fixed-nat-fullcone-self-hairpinning-drop

Description Self-Hairpinning Drop

Type: number

Format: counter

fnat44_fwd_egress_bytes_icmp

Description Fixed NAT44 Forward Egress Bytes ICMP

Type: number

Format: counter

fnat44_fwd_egress_bytes_others

Description Fixed NAT44 Forward Egress Bytes OTHERS

Type: number

Format: counter

fnat44_fwd_egress_bytes_tcp

Description Fixed NAT44 Forward Egress Bytes TCP

Type: number

Format: counter

fnat44_fwd_egress_bytes_udp

Description Fixed NAT44 Forward Egress Bytes UDP

Type: number

Format: counter

fnat44_fwd_egress_packets_icmp

Description Fixed NAT44 Forward Egress Packets ICMP

Type: number

Format: counter

fnat44_fwd_egress_packets_others

Description Fixed NAT44 Forward Egress Packets OTHERS

Type: number

Format: counter

fnat44_fwd_egress_packets_tcp

Description Fixed NAT44 Forward Egress Packets TCP

Type: number

Format: counter

fnat44_fwd_egress_packets_udp

Description Fixed NAT44 Forward Egress Packets UDP

Type: number

Format: counter

fnat44_fwd_egress_pkt_size_range1

Description Fixed NAT44 Forward Egress Packet size between 0 and 200

Type: number

Format: counter

fnat44_fwd_egress_pkt_size_range2

Description Fixed NAT44 Forward Egress Packet size between 201 and 800

Type: number

Format: counter

fnat44_fwd_egress_pkt_size_range3

Description Fixed NAT44 Forward Egress Packet size between 801 and 1550

Type: number

Format: counter

fnat44_fwd_egress_pkt_size_range4

Description Fixed NAT44 Forward Egress Packet size between 1551 and 9000

Type: number

Format: counter

fnat44_fwd_ingress_bytes_icmp

Description Fixed NAT44 Forward Ingress Bytes ICMP

Type: number

Format: counter

fnat44_fwd_ingress_bytes_others

Description Fixed NAT44 Forward Ingress Bytes OTHERS

Type: number

Format: counter

fnat44_fwd_ingress_bytes_tcp

Description Fixed NAT44 Forward Ingress Bytes TCP

Type: number

Format: counter

fnat44_fwd_ingress_bytes_udp

Description Fixed NAT44 Forward Ingress Bytes UDP

Type: number

Format: counter

fnat44_fwd_ingress_packets_icmp

Description Fixed NAT44 Forward Ingress Packets ICMP

Type: number

Format: counter

fnat44_fwd_ingress_packets_others

Description Fixed NAT44 Forward Ingress Packets OTHERS

Type: number

Format: counter

fnat44_fwd_ingress_packets_tcp

Description Fixed NAT44 Forward Ingress Packets TCP

Type: number

Format: counter

fnat44_fwd_ingress_packets_udp

Description Fixed NAT44 Forward Ingress Packets UDP

Type: number

Format: counter

fnat44_fwd_ingress_pkt_size_range1

Description Fixed NAT44 Forward Ingress Packet size between 0 and 200

Type: number

Format: counter

fnat44_fwd_ingress_pkt_size_range2

Description Fixed NAT44 Forward Ingress Packet size between 201 and 800

Type: number

Format: counter

fnat44_fwd_ingress_pkt_size_range3

Description Fixed NAT44 Forward Ingress Packet size between 801 and 1550

Type: number

Format: counter

fnat44_fwd_ingress_pkt_size_range4

Description Fixed NAT44 Forward Ingress Packet size between 1551 and 9000

Type: number

Format: counter

fnat44_rev_egress_bytes_icmp

Description Fixed NAT44 Reverse Egress Bytes ICMP

Type: number

Format: counter

fnat44_rev_egress_bytes_others

Description Fixed NAT44 Reverse Egress Bytes OTHERS

Type: number

Format: counter

fnat44_rev_egress_bytes_tcp

Description Fixed NAT44 Reverse Egress Bytes TCP

Type: number

Format: counter

fnat44_rev_egress_bytes_udp

Description Fixed NAT44 Reverse Egress Bytes UDP

Type: number

Format: counter

fnat44_rev_egress_packets_icmp

Description Fixed NAT44 Reverse Egress Packets ICMP

Type: number

Format: counter

fnat44_rev_egress_packets_others

Description Fixed NAT44 Reverse Egress Packets OTHERS

Type: number

Format: counter

fnat44_rev_egress_packets_tcp

Description Fixed NAT44 Reverse Egress Packets TCP

Type: number

Format: counter

fnat44_rev_egress_packets_udp

Description Fixed NAT44 Reverse Egress Packets UDP

Type: number

Format: counter

fnat44_rev_egress_pkt_size_range1

Description Fixed NAT44 Reverse Egress Packet size between 0 and 200

Type: number

Format: counter

fnat44_rev_egress_pkt_size_range2

Description Fixed NAT44 Reverse Egress Packet size between 201 and 800

Type: number

Format: counter

fnat44_rev_egress_pkt_size_range3

Description Fixed NAT44 Reverse Egress Packet size between 801 and 1550

Type: number

Format: counter

fnat44_rev_egress_pkt_size_range4

Description Fixed NAT44 Reverse Egress Packet size between 1551 and 9000

Type: number

Format: counter

fnat44_rev_ingress_bytes_icmp

Description Fixed NAT44 Reverse Ingress Bytes ICMP

Type: number

Format: counter

fnat44_rev_ingress_bytes_others

Description Fixed NAT44 Reverse Ingress Bytes OTHERS

Type: number

Format: counter

fnat44_rev_ingress_bytes_tcp

Description Fixed NAT44 Reverse Ingress Bytes TCP

Type: number

Format: counter

fnat44_rev_ingress_bytes_udp

Description Fixed NAT44 Reverse Ingress Bytes UDP

Type: number

Format: counter

fnat44_rev_ingress_packets_icmp

Description Fixed NAT44 Reverse Ingress Packets ICMP

Type: number

Format: counter

fnat44_rev_ingress_packets_others

Description Fixed NAT44 Reverse Ingress Packets OTHERS

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fnat44_rev_ingress_packets_tcp

Description Fixed NAT44 Reverse Ingress Packets TCP

Type: number

Format: counter

fnat44_rev_ingress_packets_udp

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Format: counter

fnat44_rev_ingress_pkt_size_range1

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fnat44_rev_ingress_pkt_size_range2

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fnat44_rev_ingress_pkt_size_range4

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Type: number

Format: counter

fnat64_fwd_egress_bytes_icmp

Description Fixed NAT64 Forward Egress Bytes ICMP

Type: number

Format: counter

fnat64_fwd_egress_bytes_others

Description Fixed NAT64 Forward Egress Bytes OTHERS

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Format: counter

fnat64_fwd_egress_bytes_tcp

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fnat64_fwd_egress_bytes_udp

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Type: number

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Type: number

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fnat64_fwd_ingress_pkt_size_range1

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Type: number

Format: counter

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Type: number

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fnat64_rev_egress_bytes_tcp

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Type: number

Format: counter

fnat64_rev_ingress_pkt_size_range4

Description Fixed NAT64 Reverse Ingress Packet size between 1551 and 9000

Type: number

Format: counter

fnatdslite_fwd_egress_bytes_icmp

Description Fixed DS-Lite Forward Egress Bytes ICMP

Type: number

Format: counter

fnatdslite_fwd_egress_bytes_others

Description Fixed DS-Lite Forward Egress Bytes OTHERS

Type: number

Format: counter

fnatdslite_fwd_egress_bytes_tcp

Description Fixed DS-Lite Forward Egress Bytes TCP

Type: number

Format: counter

fnatdslite_fwd_egress_bytes_udp

Description Fixed DS-Lite Forward Egress Bytes UDP

Type: number

Format: counter

fnatdslite_fwd_egress_packets_icmp

Description Fixed DS-Lite Forward Egress Packets ICMP

Type: number

Format: counter

fnatdslite_fwd_egress_packets_others

Description Fixed DS-Lite Forward Egress Packets OTHERS

Type: number

Format: counter

fnatdslite_fwd_egress_packets_tcp

Description Fixed DS-Lite Forward Egress Packets TCP

Type: number

Format: counter

fnatdslite_fwd_egress_packets_udp

Description Fixed DS-Lite Forward Egress Packets UDP

Type: number

Format: counter

fnatdslite_fwd_egress_pkt_size_range1

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fnatdslite_fwd_ingress_bytes_tcp

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fnatdslite_fwd_ingress_bytes_udp

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fnatdslite_fwd_ingress_packets_udp

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fnatdslite_fwd_ingress_pkt_size_range3

Description Fixed DS-Lite Forward Ingress Packet size between 801 and 1550

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Format: counter

fnatdslite_fwd_ingress_pkt_size_range4

Description Fixed DS-Lite Forward Ingress Packet size between 1551 and 9000

Type: number

Format: counter

fnatdslite_rev_egress_bytes_icmp

Description Fixed DS-Lite Reverse Egress Bytes ICMP

Type: number

Format: counter

fnatdslite_rev_egress_bytes_others

Description Fixed DS-Lite Reverse Egress Bytes OTHERS

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fnatdslite_rev_egress_bytes_tcp

Description Fixed DS-Lite Reverse Egress Bytes TCP

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fnatdslite_rev_egress_bytes_udp

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Format: counter

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Description Fixed DS-Lite Reverse Ingress Bytes ICMP

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fnatdslite_rev_ingress_bytes_others

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Format: counter

fnatdslite_rev_ingress_bytes_tcp

Description Fixed DS-Lite Reverse Ingress Bytes TCP

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Description Fixed DS-Lite Reverse Ingress Bytes UDP

Type: number

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Description Fixed DS-Lite Reverse Ingress Packets TCP

Type: number

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fnatdslite_rev_ingress_packets_udp

Description Fixed DS-Lite Reverse Ingress Packets UDP

Type: number

Format: counter

fnatdslite_rev_ingress_pkt_size_range1

Description Fixed DS-Lite Reverse Ingress Packet size between 0 and 200

Type: number

Format: counter

fnatdslite_rev_ingress_pkt_size_range2

Description Fixed DS-Lite Reverse Ingress Packet size between 201 and 800

Type: number

Format: counter

fnatdslite_rev_ingress_pkt_size_range3

Description Fixed DS-Lite Reverse Ingress Packet size between 801 and 1550

Type: number

Format: counter

fnatdslite_rev_ingress_pkt_size_range4

Description Fixed DS-Lite Reverse Ingress Packet size between 1551 and 9000

Type: number

Format: counter

fullcone-failure

Description Full-Cone Session Creation Failed

Type: number

Format: counter

ha-session-user-quota-exceeded

Description HA Sessions User Quota Exceeded

Type: number

Format: counter

nat-port-unavailable-icmp

Description ICMP NAT Port Unavailable

Type: number

Format: counter

nat-port-unavailable-tcp

Description TCP NAT Port Unavailable

Type: number

Format: counter

nat-port-unavailable-udp

Description UDP NAT Port Unavailable

Type: number

Format: counter

nat44-data-session-created

Description NAT44 Data Sessions Created

Type: number

Format: counter

nat44-data-session-freed

Description NAT44 Data Sessions Freed

Type: number

Format: counter

nat44-eif-limit-exceeded

Description NAT44 Endpoint-Independent-Filtering Limit Exceeded

Type: number

Format: counter

nat44-eif-match

Description NAT44 Endpoint-Independent-Filtering Matched

Type: number

Format: counter

nat44-eim-match

Description NAT44 Endpoint-Independent-Mapping Matched

Type: number

Format: counter

nat44-hairpin

Description NAT44 Hairpin Session Created

Type: number

Format: counter

nat44-inbound-filtered

Description NAT44 Endpoint-Dependent Filtering Drop

Type: number

Format: counter

nat44-tcp-fullcone-created

Description NAT44 TCP Full-Cone Created

Type: number

Format: counter

nat44-tcp-fullcone-freed

Description NAT44 TCP Full-Cone Freed

Type: number

Format: counter

nat44-udp-alg-fullcone-created

Description NAT44 UDP ALG Full-Cone Created

Type: number

Format: counter

nat44-udp-alg-fullcone-freed

Description NAT44 UDP ALG Full-Cone Freed

Type: number

Format: counter

nat44-udp-fullcone-created

Description NAT44 UDP Full-Cone Created

Type: number

Format: counter

nat44-udp-fullcone-freed

Description NAT44 UDP Full-Cone Freed

Type: number

Format: counter

nat64-data-session-created

Description NAT64 Data Sessions Created

Type: number

Format: counter

nat64-data-session-freed

Description NAT64 Data Sessions Freed

Type: number

Format: counter

nat64-eif-limit-exceeded

Description NAT64 Endpoint-Independent-Filtering Limit Exceeded

Type: number

Format: counter

nat64-eif-match

Description NAT64 Endpoint-Independent-Filtering Matched

Type: number

Format: counter

nat64-eim-match

Description NAT64 Endpoint-Independent-Mapping Matched

Type: number

Format: counter

nat64-hairpin

Description NAT64 Hairpin Session Created

Type: number

Format: counter

nat64-inbound-filtered

Description NAT64 Endpoint-Dependent Filtering Drop

Type: number

Format: counter

nat64-tcp-fullcone-created

Description NAT64 TCP Full-Cone Created

Type: number

Format: counter

nat64-tcp-fullcone-freed

Description NAT64 TCP Full-Cone Freed

Type: number

Format: counter

nat64-udp-alg-fullcone-created

Description NAT64 UDP ALG Full-Cone Created

Type: number

Format: counter

nat64-udp-alg-fullcone-freed

Description NAT64 UDP ALG Full-Cone Freed

Type: number

Format: counter

nat64-udp-fullcone-created

Description NAT64 UDP Full-Cone Created

Type: number

Format: counter

nat64-udp-fullcone-freed

Description NAT64 UDP Full-Cone Freed

Type: number

Format: counter

port-overload-failed

Description Port overload failed

Type: number

Format: counter

port-overload-smp-delete-scheduled

Description Port overload SMP conn delete scheduled

Type: number

Format: counter

session-user-quota-exceeded

Description Sessions User Quota Exceeded

Type: number

Format: counter

sixrd-drop

Description Fixed NAT IPv6 in IPv4 Packet Drop

Type: number

Format: counter

standby-drop

Description Fixed NAT LID Standby Drop

Type: number

Format: counter

total-icmp-allocated

Description Total ICMP Ports Allocated

Type: number

Format: counter

total-icmp-freed

Description Total ICMP Ports Freed

Type: number

Format: counter

total-nat-in-use

Description Total NAT Addresses in-use

Type: number

Format: counter

total-tcp-alloc-overload

Description Total TCP ports allocated via overload

Type: number

Format: counter

total-tcp-allocated

Description Total TCP Ports Allocated

Type: number

Format: counter

total-tcp-free-overload

Description Total TCP ports freed via overload

Type: number

Format: counter

total-tcp-freed

Description Total TCP Ports Freed

Type: number

Format: counter

total-tcp-overload-acquired

Description Total TCP ports acquired for port overloading

Type: number

Format: counter

total-tcp-overload-released

Description Total TCP ports released from port overloading

Type: number

Format: counter

total-udp-alloc-overload

Description Total UDP ports allocated via overload

Type: number

Format: counter

total-udp-allocated

Description Total UDP Ports Allocated

Type: number

Format: counter

total-udp-free-overload

Description Total UDP ports freed via overload

Type: number

Format: counter

total-udp-freed

Description Total UDP Ports Freed

Type: number

Format: counter

total-udp-overload-acquired

Description Total UDP ports acquired for port overloading

Type: number

Format: counter

total-udp-overload-released

Description Total UDP ports released from port overloading

Type: number

Format: counter

2.26.65 cgnv6 fixed-nat histogram

Fixed NAT Port Usage Histogram

histogram Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	histogram
Element URI	/axapi/v3/cgnv6/fixed-nat/histogram
Element Attributes	histogram_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/fixed-nat/histogram/oper
Schema	`histogram schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/histogram

histogram attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/histogram

histogram attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/histogram

histogram attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/histogram

histogram attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/histogram

histogram attributes

histogram attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.66 cgnv6 fixed-nat histogram oper

Operational Status for the object histogram

histogram Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	histogram
Element URI	/axapi/v3/cgnv6/fixed-nat/histogram/oper
Element Attributes	histogram_attributes
Partition Visibility	None
Schema	`histogram schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/histogram/oper

histogram attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/histogram/oper

histogram attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/histogram/oper

histogram attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/histogram/oper

histogram attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/histogram/oper

histogram attributes

histogram attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

histogram-list

Type: List

inside-end-ipv4

Description

Type: string

Format: ipv4-address

inside-end-ipv6

Description

Type: string

inside-start-ipv4

Description

Type: string

Format: ipv4-address

inside-start-ipv6

Description

Type: string

inside-user-v4

Description

Type: string

Format: ipv4-address

inside-user-v6

Description

Type: string

Format: ipv6-address

nat-address

Description

Type: string

Format: ipv4-address

outside-end-ip

Description

Type: string

Format: ipv4-address

outside-start-ip

Description

Type: string

Format: ipv4-address

total-users

Description

Type: number

oper_histogram-list

Specification	Value
Type	*list*
Block object keys	

active-tcp-users

Description

Type: number

active-udp-users

Description

Type: number

bin-end

Description

Type: number

bin-start

Description

Type: number

2.26.67 cgnv6 fixed-nat hw-accelerate

Fixed-NAT HW accelerate counters

hw-accelerate Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	hw-accelerate
Element URI	/axapi/v3/cgnv6/fixed-nat/hw-accelerate
Element Attributes	hw-accelerate_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/fixed-nat/hw-accelerate/stats
Schema	`hw-accelerate schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/hw-accelerate

hw-accelerate attributes

```
POST /axapi/v3/cgnv6/fixed-nat/hw-accelerate
Payload:
{
    "hw-accelerate": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/hw-accelerate

hw-accelerate attributes

```
GET /axapi/v3/cgnv6/fixed-nat/hw-accelerate
Reponse:
{
    "hw-accelerate": {
        "uuid": "c5ed4fea-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/fixed-nat/hw-accelerate"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/hw-accelerate

hw-accelerate attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/hw-accelerate

hw-accelerate attributes

```
PUT /axapi/v3/cgnv6/fixed-nat/hw-accelerate
Payload:
{
    "hw-accelerate": {
        "sampling-enable": [
            {
                "counters1": "entry-create"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/hw-accelerate

hw-accelerate attributes

```
DELETE /axapi/v3/cgnv6/fixed-nat/hw-accelerate
Reponse:
{
    "response": {
        "http-status": 200,
```

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```
        "status": "OK",
        "msg": "Success"
    }
}
```

hw-accelerate attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'entry-create': HW Entries Created; 'entry-create-failure': HW Entry Creation Failed; 'entry-create-fail-server-down': HW Entry Creation Failed - server down; 'entry-create-fail-max-entry': HW Entry Creation Failed - max entries exceeded; 'entry-free': HW Entries Freed; 'entry-free-opp-entry': HW Entries Freed - opposite tuple entry aged-out; 'entry-free-no-hw-prog': HW Entry Freed - no HW prog; 'entry-free-no-conn': HW Entry Freed - no matched conn; 'entry-free-no-sw-entry': HW Entry Freed - no software entry; 'entry-counter': HW Entries Count; 'entry-age-out': HW Entries Aged Out; 'entry-age-out-idle': HW Entries Aged Out - idle timeout; 'entry-age-out-tcp-fin': HW Entries Aged Out - TCP FIN; 'entry-age-out-tcp-rst': HW Entries Aged Out - TCP RST; 'entry-age-out-invalid-dst': HW Entries Aged Out - invalid dst; 'entry-force-hw-invalidate': HW Entries Force HW Invalidate; 'entry-invalidate-server-down': HW Entries Invalidate due to server down; 'tcam-create': TCAM Flows Created; 'tcam-free': TCAM Flows Freed; 'tcam-counter': TCAM Flow Count;

Type: string

Supported Values: all, entry-create, entry-create-failure, entry-create-fail-server-down, entry-create-fail-max-entry, entry-free, entry-free-opp-entry, entry-free-no-hw-prog, entry-free-no-conn, entry-free-no-sw-entry, entry-counter, entry-age-out, entry-age-out-idle, entry-age-out-tcp-fin, entry-age-out-tcp-rst, entry-age-out-invalid-dst, entry-force-hw-invalidate, entry-invalidate-server-down, tcam-create, tcam-free, tcam-counter

2.26.68 cgnv6 fixed-nat hw-accelerate stats

Statistics for the object hw-accelerate

hw-accelerate Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	hw-accelerate
Element URI	/axapi/v3/cgnv6/fixed-nat/hw-accelerate/stats
Element Attributes	hw-accelerate_attributes
Partition Visibility	None
Schema	`hw-accelerate schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/hw-accelerate/stats

hw-accelerate attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/hw-accelerate/stats

hw-accelerate attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/hw-accelerate/stats

hw-accelerate attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/hw-accelerate/stats

hw-accelerate attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/hw-accelerate/stats

hw-accelerate attributes

hw-accelerate attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

entry-age-out

Description HW Entries Aged Out

Type: number

Format: counter

entry-age-out-idle

Description HW Entries Aged Out - idle timeout

Type: number

Format: counter

entry-age-out-invalid-dst

Description HW Entries Aged Out - invalid dst

Type: number

Format: counter

entry-age-out-tcp-fin

Description HW Entries Aged Out - TCP FIN

Type: number

Format: counter

entry-age-out-tcp-rst

Description HW Entries Aged Out - TCP RST

Type: number

Format: counter

entry-counter

Description HW Entries Count

Type: number

Format: counter

entry-create

Description HW Entries Created

Type: number

Format: counter

entry-create-fail-max-entry

Description HW Entry Creation Failed - max entries exceeded

Type: number

Format: counter

entry-create-fail-server-down

Description HW Entry Creation Failed - server down

Type: number

Format: counter

entry-create-failure

Description HW Entry Creation Failed

Type: number

Format: counter

entry-force-hw-invalidate

Description HW Entries Force HW Invalidate

Type: number

Format: counter

entry-free

Description HW Entries Freed

Type: number

Format: counter

entry-free-no-conn

Description HW Entry Freed - no matched conn

Type: number

Format: counter

entry-free-no-hw-prog

Description HW Entry Freed - no HW prog

Type: number

Format: counter

entry-free-no-sw-entry

Description HW Entry Freed - no software entry

Type: number

Format: counter

entry-free-opp-entry

Description HW Entries Freed - opposite tuple entry aged-out

Type: number

Format: counter

entry-invalidate-server-down

Description HW Entries Invalidate due to server down

Type: number

Format: counter

tcam-counter

Description TCAM Flow Count

Type: number

Format: counter

tcam-create

Description TCAM Flows Created

Type: number

Format: counter

tcam-free

Description TCAM Flows Freed

Type: number

Format: counter

2.26.69 cgnv6 fixed-nat inside

Fixed NAT Inside Users

inside Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	inside
Element URI	/axapi/v3/cgnv6/fixed-nat/inside
Element Attributes	inside_attributes
Partition Visibility	shared
Schema	`inside schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/inside

inside_attributes

inside attributes

iplist-list

Type: List

Reference Object: */axapi/v3/cgnv6/fixed-nat/inside/iplist/{inside-ip-list}+{partition}*

ipv4address-list

Type: List

Reference Object: */axapi/v3/cgnv6/fixed-nat/inside/ipv4address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}*

ipv6address-list

Type: List

Reference Object: */axapi/v3/cgnv6/fixed-nat/inside/ipv6address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}*

iplist-list

Specification	Value
Type	*list*
Block object keys	

dest-rule-list

Description Bind destination based Rule-List (Fixed NAT Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-pool-size

Description Configure size of Dynamic pool (Default: 0)

Type: number

Range: 0-64511

Default: 0

inside-ip-list

Description Name of IP List used to specify Inside Users

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

method

Description 'use-all-nat-ips': Use all the NAT IP addresses configured; 'use-least-nat-ips': Use the least number of NAT IP addresses required (default);

Type: string

Supported Values: use-all-nat-ips, use-least-nat-ips

Default: use-least-nat-ips

nat-end-address

Description IPv4 End NAT Address

Type: string

Format: ipv4-address

nat-ip-list

Description Name of IP List used to specify NAT addresses

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nat-netmask

Description NAT Addresses IP Netmask

Type: string

Format: ipv4-netmask-brief

nat-start-address

Description Start NAT Address

Type: string

Format: ipv4-address

offset

Description: offset is a **JSON Block**. Please see below for *iplist-list_offset*

Type: Object

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

ports-per-user

Description Configure Ports per Inside User (ports-per-user)

Type: number

Range: 1-64512

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (Default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-config-template

Description Scaleout service-config template to bind (Scaleout service-config template name)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

session-quota

Description Configure per user quota on sessions

Type: number

Range: 1-2147483647

skip-ports-on-rollover

Description Not using the first block of ports for NAT IPs smaller than the configured offset

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports

Description: usable-nat-ports is a **JSON Block**. Please see below for *iplist-list_usable-nat-ports*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

iplist-list_usable-nat-ports

Specification	Value
Type	*object*

usable-end-port

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-start-port

Description Start Port of Usable NAT Ports

Type: number

Range: 1024-65535

iplist-list_offset

Specification	Value
Type	*object*

numeric-offset

Description Configure a numeric offset to the first NAT IP address

Type: number

Range: 0-1024000

Default: 0

Mutual Exclusion: numeric-offset and random are mutually exclusive

random

Description Randomly choose the first NAT IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: random and numeric-offset are mutually exclusive

ipv4address-list

Specification	Value
Type	*list*
Block object keys	

dest-rule-list

Description Bind destination based Rule-List (Fixed NAT Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-pool-size

Description Configure size of Dynamic pool (Default: 0)

Type: number

Range: 0-64511

Default: 0

inside-end-address

Description IPv4 Inside User End Address

Type: string

Format: ipv4-address

inside-netmask

Description IPv4 Netmask

Type: string

Format: ipv4-netmask-brief

inside-start-address

Description IPv4 Inside User Start Address

Type: string

Format: ipv4-address

method

Description 'use-all-nat-ips': Use all the NAT IP addresses configured; 'use-least-nat-ips': Use the least number of NAT IP addresses required (default);

Type: string

Supported Values: use-all-nat-ips, use-least-nat-ips

Default: use-least-nat-ips

nat-end-address

Description IPv4 End NAT Address

Type: string

Format: ipv4-address

nat-ip-list

Description Name of IP List used to specify NAT addresses

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nat-netmask

Description NAT Addresses IP Netmask

Type: string

Format: ipv4-netmask-brief

nat-start-address

Description Start NAT Address

Type: string

Format: ipv4-address

offset

Description: offset is a **JSON Block**. Please see below for *ipv4address-list_offset*

Type: Object

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

ports-per-user

Description Configure Ports per Inside User (ports-per-user)

Type: number

Range: 1-64512

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (Default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-config-template

Description Scaleout service-config template to bind (Scaleout service-config template name)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

session-quota

Description Configure per user quota on sessions

Type: number

Range: 1-2147483647

skip-ports-on-rollover

Description Not using the first block of ports for NAT IPs smaller than the configured offset

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports

Description: usable-nat-ports is a **JSON Block**. Please see below for *ipv4address-list_usable-nat-ports*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

ipv4address-list_usable-nat-ports

Specification	Value
Type	*object*

usable-end-port

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-start-port

Description Start Port of Usable NAT Ports

Type: number

Range: 1024-65535

ipv4address-list_offset

Specification	Value
Type	*object*

numeric-offset

Description Configure a numeric offset to the first NAT IP address

Type: number

Range: 0-1024000

Default: 0

Mutual Exclusion: numeric-offset and random are mutually exclusive

random

Description Randomly choose the first NAT IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: random and numeric-offset are mutually exclusive

ipv6address-list

Specification	Value
Type	*list*
Block object keys	

dest-rule-list

Description Bind destination based Rule-List (Fixed NAT Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-pool-size

Description Configure size of Dynamic pool (Default: 0)

Type: number

Range: 0-64511

Default: 0

inside-end-address

Description IPv6 Inside User End Address

Type: string

Format: ipv6-address

inside-netmask

Description Inside User IPv6 Netmask

Type: number

Range: 64-128

inside-start-address

Description IPv6 Inside User Start Address

Type: string

Format: ipv6-address

method

Description 'use-all-nat-ips': Use all the NAT IP addresses configured; 'use-least-nat-ips': Use the least number of NAT IP addresses required (default);

Type: string

Supported Values: use-all-nat-ips, use-least-nat-ips

Default: use-least-nat-ips

nat-end-address

Description IPv4 End NAT Address

Type: string

Format: ipv4-address

nat-ip-list

Description Name of IP List used to specify NAT addresses

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nat-netmask

Description NAT Addresses IP Netmask

Type: string

Format: ipv4-netmask-brief

nat-start-address

Description Start NAT Address

Type: string

Format: ipv4-address

offset

Description: offset is a **JSON Block**. Please see below for *ipv6address-list_offset*

Type: Object

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

ports-per-user

Description Configure Ports per Inside User (ports-per-user)

Type: number

Range: 1-64512

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (Default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-config-template

Description Scaleout service-config template to bind (Scaleout service-config template name)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

session-quota

Description Configure per user quota on sessions

Type: number

Range: 1-2147483647

skip-ports-on-rollover

Description Not using the first block of ports for NAT IPs smaller than the configured offset

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports

Description: usable-nat-ports is a **JSON Block**. Please see below for *ipv6address-list_usable-nat-ports*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

ipv6address-list_usable-nat-ports

Specification	Value
Type	*object*

usable-end-port

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-start-port

Description Start Port of Usable NAT Ports

Type: number

Range: 1024-65535

ipv6address-list_offset

Specification	Value
Type	*object*

numeric-offset

Description Configure a numeric offset to the first NAT IP address

Type: number

Range: 0-1024000

Default: 0

Mutual Exclusion: numeric-offset and random are mutually exclusive

random

Description Randomly choose the first NAT IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: random and numeric-offset are mutually exclusive

2.26.70 cgnv6 fixed-nat inside iplist

Configure Fixed NAT with Inside IP List

iplist Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*inside-ip-list, partition*
Collection Name	*iplist-list*
Collection URI	/axapi/v3/cgnv6/fixed-nat/inside/iplist
Element Name	iplist
Element URI	/axapi/v3/cgnv6/fixed-nat/inside/iplist/{inside-ip-list}+{partition}
Element Attributes	iplist_attributes
Partition Visibility	shared
Schema	`iplist schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/inside/iplist

iplist attributes

```
POST /axapi/v3/cgnv6/fixed-nat/inside/iplist/
Payload:
{
    "iplist": {
        "partition": "a",
        "inside-ip-list": "a",
        "nat-ip-list": "test1",
        "vrid": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/fixed-nat/inside/iplist

iplist attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/inside/iplist/{inside-ip-list}+{partition}

iplist attributes

```
GET /axapi/v3/cgnv6/fixed-nat/inside/iplist/a+a
Reponse:
{
    "iplist": {
        "inside-ip-list": "a",
        "partition": "a",
        "nat-ip-list": "test1",
        "vrid": 1,
        "dynamic-pool-size": 0,
        "method": "use-least-nat-ips",
        "offset": {
            "random": 0
        },
        "respond-to-user-mac": 0,
        "uuid": "1fe2110c-089b-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/fixed-nat/inside/iplist/a+a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/fixed-nat/inside/iplist

iplist-list

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/inside/iplist/{inside-ip-list}+{partition}

iplist attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/inside/iplist/{inside-ip-list}+{partition}

iplist attributes

```
DELETE /axapi/v3/cgnv6/fixed-nat/inside/iplist/a+a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

iplist-list

iplist-list is **JSON List** of *iplist attributes*

iplist-list : [

{ *iplist attributes* },

{ *iplist attributes* },

...

]

iplist attributes

dest-rule-list

Description Bind destination based Rule-List (Fixed NAT Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-pool-size

Description Configure size of Dynamic pool (Default: 0)

Type: number

Range: 0-64511

Default: 0

inside-ip-list

Description Name of IP List used to specify Inside Users

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

method

Description 'use-all-nat-ips': Use all the NAT IP addresses configured; 'use-least-nat-ips': Use the least number of NAT IP addresses required (default);

Type: string

Supported Values: use-all-nat-ips, use-least-nat-ips

Default: use-least-nat-ips

nat-end-address

Description IPv4 End NAT Address

Type: string

Format: ipv4-address

nat-ip-list

Description Name of IP List used to specify NAT addresses

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nat-netmask

Description NAT Addresses IP Netmask

Type: string

Format: ipv4-netmask-brief

nat-start-address

Description Start NAT Address

Type: string

Format: ipv4-address

offset

Description: offset is a **JSON Block**. Please see below for *offset*

Type: Object

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

ports-per-user

Description Configure Ports per Inside User (ports-per-user)

Type: number

Range: 1-64512

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (Default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-config-template

Description Scaleout service-config template to bind (Scaleout service-config template name)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

session-quota

Description Configure per user quota on sessions

Type: number

Range: 1-2147483647

skip-ports-on-rollover

Description Not using the first block of ports for NAT IPs smaller than the configured offset

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports

Description: usable-nat-ports is a **JSON Block**. Please see below for *usable-nat-ports*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

usable-nat-ports

Specification	Value
Type	*object*

usable-end-port

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-start-port

Description Start Port of Usable NAT Ports

Type: number

Range: 1024-65535

offset

Specification	Value
Type	*object*

numeric-offset

Description Configure a numeric offset to the first NAT IP address

Type: number

Range: 0-1024000

Default: 0

Mutual Exclusion: numeric-offset and random are mutually exclusive

random

Description Randomly choose the first NAT IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: random and numeric-offset are mutually exclusive

2.26.71 cgnv6 fixed-nat inside ipv4address

Configure Fixed NAT

ipv4address Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*inside-start-address, inside-end-address, inside-netmask, partition*
Collection Name	*ipv4address-list*
Collection URI	/axapi/v3/cgnv6/fixed-nat/inside/ipv4address
Element Name	ipv4address
Element URI	/axapi/v3/cgnv6/fixed-nat/inside/ipv4address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}
Element Attributes	ipv4address_attributes
Partition Visibility	shared
Schema	`ipv4address schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/inside/ipv4address

ipv4address attributes

```
POST /axapi/v3/cgnv6/fixed-nat/inside/ipv4address/
Payload:
{
    "ipv4address": {
        "inside-netmask": "/24",
        "partition": "a",
        "inside-start-address": "3.3.3.3",
        "inside-end-address": "3.3.3.3",
        "nat-ip-list": "a",
        "vrid": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/fixed-nat/inside/ipv4address

ipv4address attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/inside/ipv4address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}

ipv4address attributes

```
GET /axapi/v3/cgnv6/fixed-nat/inside/ipv4address/3.3.3.3+3.3.3.3+%2f24+a
Reponse:
{
    "ipv4address": {
        "inside-start-address": "3.3.3.3",
        "inside-end-address": "3.3.3.3",
        "inside-netmask": "/24",
        "partition": "a",
        "nat-ip-list": "a",
        "vrid": 1,
        "dynamic-pool-size": 0,
        "method": "use-least-nat-ips",
        "offset": {
            "random": 0
        },
        "respond-to-user-mac": 0,
        "uuid": "ada7b19a-089b-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/fixed-nat/inside/ipv4address/3.3.3.3+3.3.3.3+%2F24+a"
```

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```
    }
}
```

Get List

GET

/axapi/v3/cgnv6/fixed-nat/inside/ipv4address

ipv4address-list

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/inside/ipv4address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}

ipv4address attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/inside/ipv4address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}

ipv4address attributes

```
DELETE /axapi/v3/cgnv6/fixed-nat/inside/ipv4address/3.3.3.3+3.3.3.3+%2f24+a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ipv4address-list

ipv4address-list is **JSON List** of *ipv4address attributes*

ipv4address-list : [

{ *ipv4address attributes* },

{ *ipv4address attributes* },

...

]

ipv4address attributes

dest-rule-list

Description Bind destination based Rule-List (Fixed NAT Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-pool-size

Description Configure size of Dynamic pool (Default: 0)

Type: number

Range: 0-64511

Default: 0

inside-end-address

Description IPv4 Inside User End Address

Type: string

Format: ipv4-address

inside-netmask

Description IPv4 Netmask

Type: string

Format: ipv4-netmask-brief

inside-start-address

Description IPv4 Inside User Start Address

Type: string

Format: ipv4-address

method

Description 'use-all-nat-ips': Use all the NAT IP addresses configured; 'use-least-nat-ips': Use the least number of NAT IP addresses required (default);

Type: string

Supported Values: use-all-nat-ips, use-least-nat-ips

Default: use-least-nat-ips

nat-end-address

Description IPv4 End NAT Address

Type: string

Format: ipv4-address

nat-ip-list

Description Name of IP List used to specify NAT addresses

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nat-netmask

Description NAT Addresses IP Netmask

Type: string

Format: ipv4-netmask-brief

nat-start-address

Description Start NAT Address

Type: string

Format: ipv4-address

offset

Description: offset is a **JSON Block**. Please see below for *offset*

Type: Object

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

ports-per-user

Description Configure Ports per Inside User (ports-per-user)

Type: number

Range: 1-64512

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (Default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-config-template

Description Scaleout service-config template to bind (Scaleout service-config template name)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

session-quota

Description Configure per user quota on sessions

Type: number

Range: 1-2147483647

skip-ports-on-rollover

Description Not using the first block of ports for NAT IPs smaller than the configured offset

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports

Description: usable-nat-ports is a **JSON Block**. Please see below for *usable-nat-ports*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

usable-nat-ports

Specification	Value
Type	*object*

usable-end-port

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-start-port

Description Start Port of Usable NAT Ports

Type: number

Range: 1024-65535

offset

Specification	Value
Type	*object*

numeric-offset

Description Configure a numeric offset to the first NAT IP address

Type: number

Range: 0-1024000

Default: 0

Mutual Exclusion: numeric-offset and random are mutually exclusive

random

Description Randomly choose the first NAT IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: random and numeric-offset are mutually exclusive

2.26.72 cgnv6 fixed-nat inside ipv6address

Configure Fixed NAT

ipv6address Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*inside-start-address, inside-end-address, inside-netmask, partition*
Collection Name	*ipv6address-list*
Collection URI	/axapi/v3/cgnv6/fixed-nat/inside/ipv6address
Element Name	ipv6address
Element URI	/axapi/v3/cgnv6/fixed-nat/inside/ipv6address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}
Element Attributes	ipv6address_attributes
Partition Visibility	shared
Schema	`ipv6address schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/inside/ipv6address

ipv6address attributes

```
POST /axapi/v3/cgnv6/fixed-nat/inside/ipv6address/
Payload:
{
    "ipv6address": {
        "inside-netmask": 64,
        "partition": "a",
        "inside-start-address": "2003::1",
        "inside-end-address": "2003::1",
        "nat-ip-list": "a",
        "vrid": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/fixed-nat/inside/ipv6address

ipv6address attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/inside/ipv6address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}

ipv6address attributes

```
GET /axapi/v3/cgnv6/fixed-nat/inside/ipv6address/2003::1+2003::1+64+a
Reponse:
{
    "ipv6address": {
        "inside-start-address": "2003::1",
        "inside-end-address": "2003::1",
        "inside-netmask": 64,
        "partition": "a",
        "nat-ip-list": "a",
        "vrid": 1,
        "dynamic-pool-size": 0,
        "method": "use-least-nat-ips",
        "offset": {
            "random": 0
        },
        "respond-to-user-mac": 0,
        "uuid": "360804d6-089c-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/fixed-nat/inside/ipv6address/2003%3A%3A1+2003%3A
↪%3A1+64+a"
```

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```
    }
}
```

Get List

GET

/axapi/v3/cgnv6/fixed-nat/inside/ipv6address

ipv6address-list

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/inside/ipv6address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}

ipv6address attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/inside/ipv6address/{inside-start-address}+{inside-end-address}+{inside-netmask}+{partition}

ipv6address attributes

```
DELETE /axapi/v3/cgnv6/fixed-nat/inside/ipv6address/2003::1+2003::1+64+a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ipv6address-list

ipv6address-list is **JSON List** of *ipv6address attributes*

ipv6address-list : [

{ *ipv6address attributes* },

{ *ipv6address attributes* },

...

]

ipv6address attributes

dest-rule-list

Description Bind destination based Rule-List (Fixed NAT Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-pool-size

Description Configure size of Dynamic pool (Default: 0)

Type: number

Range: 0-64511

Default: 0

inside-end-address

Description IPv6 Inside User End Address

Type: string

Format: ipv6-address

inside-netmask

Description Inside User IPv6 Netmask

Type: number

Range: 64-128

inside-start-address

Description IPv6 Inside User Start Address

Type: string

Format: ipv6-address

method

Description 'use-all-nat-ips': Use all the NAT IP addresses configured; 'use-least-nat-ips': Use the least number of NAT IP addresses required (default);

Type: string

Supported Values: use-all-nat-ips, use-least-nat-ips

Default: use-least-nat-ips

nat-end-address

Description IPv4 End NAT Address

Type: string

Format: ipv4-address

nat-ip-list

Description Name of IP List used to specify NAT addresses

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nat-netmask

Description NAT Addresses IP Netmask

Type: string

Format: ipv4-netmask-brief

nat-start-address

Description Start NAT Address

Type: string

Format: ipv4-address

offset

Description: offset is a **JSON Block**. Please see below for *offset*

Type: Object

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

ports-per-user

Description Configure Ports per Inside User (ports-per-user)

Type: number

Range: 1-64512

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (Default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

service-config-template

Description Scaleout service-config template to bind (Scaleout service-config template name)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

session-quota

Description Configure per user quota on sessions

Type: number

Range: 1-2147483647

skip-ports-on-rollover

Description Not using the first block of ports for NAT IPs smaller than the configured offset

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports

Description: usable-nat-ports is a **JSON Block**. Please see below for *usable-nat-ports*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

usable-nat-ports

Specification	Value
Type	*object*

usable-end-port

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-start-port

Description Start Port of Usable NAT Ports

Type: number

Range: 1024-65535

offset

Specification	Value
Type	*object*

numeric-offset

Description Configure a numeric offset to the first NAT IP address

Type: number

Range: 0-1024000

Default: 0

Mutual Exclusion: numeric-offset and random are mutually exclusive

random

Description Randomly choose the first NAT IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: random and numeric-offset are mutually exclusive

2.26.73 cgnv6 fixed-nat per-instance

Dynamic Fixed-NAT per VRID/UserGroup counters

per-instance Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	per-instance
Element URI	/axapi/v3/cgnv6/fixed-nat/per-instance
Element Attributes	per-instance_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/fixed-nat/per-instance/stats
Schema	`per-instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/per-instance

per-instance attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/per-instance

per-instance attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/per-instance

per-instance attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/per-instance

per-instance attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/per-instance

per-instance attributes

per-instance attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.74 cgnv6 fixed-nat per-instance stats

Statistics for the object per-instance

per-instance Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	per-instance
Element URI	/axapi/v3/cgnv6/fixed-nat/per-instance/stats
Element Attributes	per-instance_attributes
Partition Visibility	None
Schema	`per-instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/per-instance/stats

per-instance attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/per-instance/stats

per-instance attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/per-instance/stats

per-instance attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/per-instance/stats

per-instance attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/per-instance/stats

per-instance attributes

per-instance attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

active-subscriber-added

Description Active Subscriber Added

Type: number

Format: counter

active-subscriber-removed

Description Active Subscriber Removed

Type: number

Format: counter

data_session_created

Description Data Session Created

Type: number

Format: counter

data_session_freed

Description Data Session Freed

Type: number

Format: counter

icmp_allocated

Description ICMP Ports Allocated

Type: number

Format: counter

icmp_freed

Description ICMP Ports Freed

Type: number

Format: counter

key-name

Description

Type: string

Format: counter

tcp_allocated

Description TCP Ports Allocated

Type: number

Format: counter

tcp_freed

Description TCP Ports Freed

Type: number

Format: counter

tcp_fullcone_created

Description TCP Full-cone Session Created

Type: number

Format: counter

tcp_fullcone_freed

Description TCP Full-cone Session Freed

Type: number

Format: counter

total_nat_in_use

Description Total NAT addresses in use

Type: number

Format: counter

udp_allocated

Description UDP Ports Allocated

Type: number

Format: counter

udp_freed

Description UDP Ports Freed

Type: number

Format: counter

udp_fullcone_created

Description UDP Full-cone Session Created

Type: number

Format: counter

udp_fullcone_freed

Description UDP Full-cone Session Freed

Type: number

Format: counter

2.26.75 cgnv6 fixed-nat port-mapping

Fixed NAT Port Mapping

port-mapping Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-mapping
Element URI	/axapi/v3/cgnv6/fixed-nat/port-mapping
Element Attributes	port-mapping_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/fixed-nat/port-mapping/oper
Schema	`port-mapping schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/port-mapping

port-mapping attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/port-mapping

port-mapping attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/port-mapping

port-mapping attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/port-mapping

port-mapping attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/port-mapping

port-mapping attributes

port-mapping attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.76 cgnv6 fixed-nat port-mapping-files

Fixed NAT Port Mapping Files

port-mapping-files Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-mapping-files
Element URI	/axapi/v3/cgnv6/fixed-nat/port-mapping-files
Element Attributes	port-mapping-files_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/fixed-nat/port-mapping-files/oper
Schema	`port-mapping-files schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/port-mapping-files

port-mapping-files attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/port-mapping-files

port-mapping-files attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/port-mapping-files

port-mapping-files attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/port-mapping-files

port-mapping-files attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/port-mapping-files

port-mapping-files attributes

port-mapping-files attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.77 cgnv6 fixed-nat port-mapping-files oper

Operational Status for the object port-mapping-files

port-mapping-files Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-mapping-files
Element URI	/axapi/v3/cgnv6/fixed-nat/port-mapping-files/oper
Element Attributes	port-mapping-files_attributes
Partition Visibility	None
Schema	`port-mapping-files schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/port-mapping-files/oper

port-mapping-files attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/port-mapping-files/oper

port-mapping-files attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/port-mapping-files/oper

port-mapping-files attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/port-mapping-files/oper

port-mapping-files attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/port-mapping-files/oper

port-mapping-files attributes

port-mapping-files attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

contain

Description

Type: string

contain-case-sensitive

Description

Type: string

file-list

Type: List

type

Description

Type: string

Supported Values: all, archive, regular

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file-name

Description

Type: string

write-status

Description

Type: string

2.26.78 cgnv6 fixed-nat port-mapping oper

Operational Status for the object port-mapping

port-mapping Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-mapping
Element URI	/axapi/v3/cgnv6/fixed-nat/port-mapping/oper
Element Attributes	port-mapping_attributes
Partition Visibility	None
Schema	`port-mapping schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/port-mapping/oper

port-mapping attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/port-mapping/oper

port-mapping attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/port-mapping/oper

port-mapping attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/port-mapping/oper

port-mapping attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/port-mapping/oper

port-mapping attributes

port-mapping attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

inside-user-v4

Description

Type: string

Format: ipv4-address

inside-user-v6

Description

Type: string

Format: ipv6-address

mapping-list

Type: List

nat-ip

Description

Type: string

Format: ipv4-address

nat-port

Description

Type: number

partition

Description

Type: string

oper_mapping-list

Specification	Value
Type	*list*
Block object keys	

assigned-to

Description

Type: string

icmp-port-end

Description

Type: number

icmp-port-start

Description

Type: number

nat-address

Description

Type: string

Format: ipv4-address

tcp-port-end

Description

Type: number

tcp-port-start

Description

Type: number

udp-port-end

Description

Type: number

udp-port-start

Description

Type: number

2.26.79 cgnv6 fixed-nat user-quota

Fixed NAT Quota Usage

user-quota Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	user-quota
Element URI	/axapi/v3/cgnv6/fixed-nat/user-quota
Element Attributes	user-quota_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/fixed-nat/user-quota/oper
Schema	`user-quota schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/user-quota

user-quota attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/user-quota

user-quota attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/user-quota

user-quota attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/user-quota

user-quota attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/user-quota

user-quota attributes

user-quota attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.80 cgnv6 fixed-nat user-quota oper

Operational Status for the object user-quota

user-quota Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	user-quota
Element URI	/axapi/v3/cgnv6/fixed-nat/user-quota/oper
Element Attributes	user-quota_attributes
Partition Visibility	None
Schema	`user-quota schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/fixed-nat/user-quota/oper

user-quota attributes

Get Object

GET

/axapi/v3/cgnv6/fixed-nat/user-quota/oper

user-quota attributes

Modify Object

POST

/axapi/v3/cgnv6/fixed-nat/user-quota/oper

user-quota attributes

Replace Object

PUT

/axapi/v3/cgnv6/fixed-nat/user-quota/oper

user-quota attributes

Delete Object

DELETE

/axapi/v3/cgnv6/fixed-nat/user-quota/oper

user-quota attributes

user-quota attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

inside-user-v4

Description

Type: string

Format: ipv4-address

inside-user-v6

Description

Type: string

Format: ipv6-address

partition

Description

Type: string

quota-usage-list

Type: List

oper_quota-usage-list

Specification	Value
Type	*list*
Block object keys	

icmp-resources-available

Description

Type: number

icmp-resources-used

Description

Type: number

inside-user

Description

Type: string

nat-address

Description

Type: string

Format: ipv4-address

session-quota-used

Description

Type: number

tcp-ports-available

Description

Type: number

tcp-ports-used

Description

Type: number

udp-ports-available

Description

Type: number

udp-ports-used

Description

Type: number

2.26.81 cgnv6 global

CGN global paramters

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/global
Element Attributes	global_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/global/stats
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/global

global attributes

```
POST /axapi/v3/cgnv6/global
Payload:
{
    "global": {
        "port-scan-detection": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/global

global attributes

```
GET /axapi/v3/cgnv6/global
Reponse:
```

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```
{
    "global": {
        "port-scan-detection": "enable",
        "ping-sweep-detection": "disable",
        "uuid": "c5ecf8d8-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/global"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/global

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/global

global attributes

```
PUT /axapi/v3/cgnv6/global
Payload:
{
    "global": {
        "port-scan-detection": "disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/global

global attributes

```
DELETE /axapi/v3/cgnv6/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

global attributes

domain-list

Description: domain-list is a **JSON Block**. Please see below for *domain-list*

Type: Object

Reference Object: */axapi/v3/cgnv6/global/domain-list*

ping-sweep-detection

Description 'enable': Enable ping sweep detection; 'disable': Disable ping sweep detection(default);

Type: string

Supported Values: enable, disable

Default: disable

port-scan-detection

Description 'enable': Enable port scan detection; 'disable': Disable port scan detection(default);

Type: string

Supported Values: enable, disable

Default: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'tcp-total-ports-allocated': Total TCP ports allocated; 'udp-total-ports-allocated': Total UDP ports allocated; 'icmp-total-ports-allocated': Total ICMP ports allocated;

Type: string

Supported Values: all, tcp-total-ports-allocated, udp-total-ports-allocated, icmp-total-ports-allocated

domain-list

Specification	Value
Type	*object*

aaaa-query

Description 'enable': Enable the DNS AAAA query for each domain in the domain list.; 'disable': Disable the DNS AAAA query for each domain in the domain list.;

Type: string

Supported Values: enable, disable

Default: enable

fail-interval

Description Set up the global failure interval in second for the DNS resolution.

Type: number

Range: 3-600

interval

Description Set up the global query interval in minute for the DNS resolution.

Type: number

Range: 1-1440

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.82 cgnv6 global domain-list

Configure the global parameters for the domain-list

domain-list Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	domain-list
Element URI	/axapi/v3/cgnv6/global/domain-list
Element Attributes	domain-list_attributes
Partition Visibility	shared
Schema	`domain-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/global/domain-list

domain-list attributes

```
POST /axapi/v3/cgnv6/global/domain-list
Payload:
{
    "domain-list": {
        "interval": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/global/domain-list

domain-list attributes

```
GET /axapi/v3/cgnv6/global/domain-list
Reponse:
{
    "domain-list": {
        "interval": 1,
        "aaaa-query": "enable",
        "uuid": "7a60c310-089d-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/global/domain-list"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/global/domain-list

domain-list attributes

Replace Object

PUT

/axapi/v3/cgnv6/global/domain-list

domain-list attributes

```
PUT /axapi/v3/cgnv6/global/domain-list
Payload:
{
    "domain-list": {
        "interval": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/global/domain-list

domain-list attributes

```
DELETE /axapi/v3/cgnv6/global/domain-list
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

domain-list attributes

aaaa-query

Description 'enable': Enable the DNS AAAA query for each domain in the domain list.; 'disable': Disable the DNS AAAA query for each domain in the domain list.;

Type: string

Supported Values: enable, disable

Default: enable

fail-interval

Description Set up the global failure interval in second for the DNS resolution.

Type: number

Range: 3-600

interval

Description Set up the global query interval in minute for the DNS resolution.

Type: number

Range: 1-1440

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.83 cgnv6 global stats

Statistics for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/global/stats
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/global/stats

global attributes

Get Object

GET

/axapi/v3/cgnv6/global/stats

global attributes

Modify Object

POST

/axapi/v3/cgnv6/global/stats

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/global/stats

global attributes

Delete Object

DELETE

/axapi/v3/cgnv6/global/stats

global attributes

global attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

icmp-total-ports-allocated

Description Total ICMP ports allocated

Type: number

Format: counter

tcp-total-ports-allocated

Description Total TCP ports allocated

Type: number

Format: counter

udp-total-ports-allocated

Description Total UDP ports allocated

Type: number

Format: counter

2.26.84 cgnv6 http-alg

HTTP-ALG Statistics

http-alg Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	http-alg
Element URI	/axapi/v3/cgnv6/http-alg
Element Attributes	http-alg_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/http-alg/stats
Schema	`http-alg schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/http-alg

http-alg attributes

```
POST /axapi/v3/cgnv6/http-alg
Payload:
{
    "http-alg": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/http-alg

http-alg attributes

```
GET /axapi/v3/cgnv6/http-alg
Reponse:
{
    "http-alg": {
        "uuid": "c5edac6a-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/http-alg"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/http-alg

http-alg attributes

Replace Object

PUT

/axapi/v3/cgnv6/http-alg

http-alg attributes

```
PUT /axapi/v3/cgnv6/http-alg
Payload:
{
    "http-alg": {
        "sampling-enable": [
            {
                "counters1": "request-processed"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/http-alg

http-alg attributes

```
DELETE /axapi/v3/cgnv6/http-alg
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

http-alg attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'request-processed': HTTP Request Processed; 'request-insert-msisdn-performed': HTTP MSISDN Insertion Performed; 'request-insert-client-ip-performed': HTTP Client IP Insertion Performed; 'request-insert-msisdn-unavailable': Inserted MSISDN is 0000 (MSISDN Unavailable); 'queued-session-too-many': Queued Session Exceed Drop; 'radius-query-succeed': MSISDN Query Succeed; 'radius-query-failed': MSISDN Query Failed; 'radius-requst-sent': Query Request Sent; 'radius-requst-dropped': Query Request Dropped; 'radius-response-received': Query Response Received; 'radius-response-dropped': Query Response Dropped; 'out-of-memory-dropped': Out-of-Memory Dropped; 'queue-len-exceed-dropped': Queue Length Exceed Dropped; 'out-of-order-dropped': Packet Out-of-Order Dropped; 'buff-resent': Packet Resent from Queue; 'buff-spilt-failed': Buff Split Failed; 'header-insertion-failed': Buff Insertion Failed; 'header-removal-failed': Buff Removal Failed; 'no-queue': No Queue;

Type: string

Supported Values: all, request-processed, request-insert-msisdn-performed, request-insert-client-ip-performed, request-insert-msisdn-unavailable, queued-session-too-many, radius-query-succeed, radius-query-failed, radius-requst-sent, radius-requst-dropped, radius-response-received, radius-response-dropped, out-of-memory-dropped, queue-len-exceed-dropped, out-of-order-dropped, buff-resent, buff-spilt-failed, header-insertion-failed, header-removal-failed, no-queue

2.26.85 cgnv6 http-alg stats

Statistics for the object http-alg

http-alg Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	http-alg
Element URI	/axapi/v3/cgnv6/http-alg/stats
Element Attributes	http-alg_attributes
Partition Visibility	None
Schema	`http-alg schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/http-alg/stats

http-alg attributes

Get Object

GET

/axapi/v3/cgnv6/http-alg/stats

http-alg attributes

Modify Object

POST

/axapi/v3/cgnv6/http-alg/stats

http-alg attributes

Replace Object

PUT

/axapi/v3/cgnv6/http-alg/stats

http-alg attributes

Delete Object

DELETE

/axapi/v3/cgnv6/http-alg/stats

http-alg attributes

http-alg attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

header-insertion-failed

Description Buff Insertion Failed

Type: number

Format: counter

header-removal-failed

Description Buff Removal Failed

Type: number

Format: counter

out-of-memory-dropped

Description Out-of-Memory Dropped

Type: number

Format: counter

out-of-order-dropped

Description Packet Out-of-Order Dropped

Type: number

Format: counter

queue-len-exceed-dropped

Description Queue Length Exceed Dropped

Type: number

Format: counter

queued-session-too-many

Description Queued Session Exceed Drop

Type: number

Format: counter

radius-query-failed

Description MSISDN Query Failed

Type: number

Format: counter

radius-query-succeed

Description MSISDN Query Succeed

Type: number

Format: counter

radius-requst-dropped

Description Query Request Dropped

Type: number

Format: counter

radius-requst-sent

Description Query Request Sent

Type: number

Format: counter

radius-response-dropped

Description Query Response Dropped

Type: number

Format: counter

radius-response-received

Description Query Response Received

Type: number

Format: counter

request-insert-client-ip-performed

Description HTTP Client IP Insertion Performed

Type: number

Format: counter

request-insert-msisdn-performed

Description HTTP MSISDN Insertion Performed

Type: number

Format: counter

request-insert-msisdn-unavailable

Description Inserted MSISDN is 0000 (MSISDN Unavailable)

Type: number

Format: counter

request-processed

Description HTTP Request Processed

Type: number

Format: counter

2.26.86 cgnv6 icmp

CGNV6 ICMP Statistics

icmp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	icmp
Element URI	/axapi/v3/cgnv6/icmp
Element Attributes	icmp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/icmp/stats
Schema	`icmp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/icmp

icmp attributes

```
POST /axapi/v3/cgnv6/icmp
Payload:
{
    "icmp": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/icmp

icmp attributes

```
GET /axapi/v3/cgnv6/icmp
Reponse:
{
    "icmp": {
        "uuid": "c5edabca-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/icmp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/icmp

icmp attributes

Replace Object

PUT

/axapi/v3/cgnv6/icmp

icmp attributes

```
PUT /axapi/v3/cgnv6/icmp
Payload:
{
    "icmp": {
        "sampling-enable": [
```

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```
            {
                "counters1": "icmp-unknown-type"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/icmp

icmp attributes

```
DELETE /axapi/v3/cgnv6/icmp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

icmp attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'icmp-unknown-type': ICMP Unknown Type; 'icmp-no-port-info': ICMP Port Info Not Included; 'icmp-no-session-drop': ICMP No Matching Session Drop; 'icmpv6-unknown-type': ICMPv6 Unknown Type; 'icmpv6-no-port-info': ICMPv6 Port Info Not Included; 'icmpv6-no-session-drop': ICMPv6 No Matching Session Drop; 'icmp-to-icmp': ICMP to ICMP Conversion; 'icmp-to-icmpv6': ICMP to ICMPv6 Conversion;

'icmpv6-to-icmp': ICMPv6 to ICMP Conversion; 'icmpv6-to-icmpv6': ICMPv6 to ICMPv6 Conversion; 'icmp-bad-type': Bad Embedded ICMP Type; 'icmpv6-bad-type': Bad Embedded ICMPv6 Type; '64-known-drop': NAT64 Forward Known ICMPv6 Drop; '64-unknown-drop': NAT64 Forward Unknown ICMPv6 Drop; '64-midpoint-hop': NAT64 Forward Unknown Source Drop; '46-known-drop': NAT64 Reverse Known ICMP Drop; '46-unknown-drop': NAT64 Reverse Known ICMPv6 Drop; '46-no-prefix-for-ipv4': NAT64 Reverse No Prefix Match for IPv4; '46-bad-encap-ip-header-len': 4to6 Bad Encapsulated IP Header Length; 'icmp-to-icmp-err': ICMP to ICMP Conversion Error; 'icmp-to-icmpv6-err': ICMP to ICMPv6 Conversion Error; 'icmpv6-to-icmp-err': ICMPv6 to ICMP Conversion Error; 'icmpv6-to-icmpv6-err': ICMPv6 to ICMPv6 Conversion Error; 'encap-cross-cpu-no-match': ICMP Embedded Cross CPU No Matching Session; 'encap-cross-cpu-preprocess-err': ICMP Embedded Cross CPU Preprocess Error; 'icmp-to-icmp-unknown-l4': ICMP Embedded Unknown L4 Protocol; 'icmp-to-icmpv6-unknown-l4': ICMP to ICMPv6 Embedded Unknown L4 Protocol; 'icmpv6-to-icmp-unknown-l4': ICMPv6 to ICMP Embedded Unknown L4 Protocol; 'icmpv6-to-icmpv6-unknown-l4': ICMPv6 to ICMPv6 Embedded Unknown L4 Protocol; 'static-nat': ICMP Static NAT; 'echo-to-pool-reply': Ping to Pool Reply; 'echo-to-pool-drop': Ping to Pool Drop; 'error-to-pool-drop': Error to Pool Drop; 'echo-to-pool-reply-v6': Ping6 to Pool Reply; 'echo-to-pool-drop-v6': Ping6 to Pool Drop; 'error-to-pool-drop-v6': Error to IPv6 Pool Drop; 'error-ip-mismatch': ICMP IP address mismatch;

Type: string

Supported Values: all, icmp-unknown-type, icmp-no-port-info, icmp-no-session-drop, icmpv6-unknown-type, icmpv6-no-port-info, icmpv6-no-session-drop, icmp-to-icmp, icmp-to-icmpv6, icmpv6-to-icmp, icmpv6-to-icmpv6, icmp-bad-type, icmpv6-bad-type, 64-known-drop, 64-unknown-drop, 64-midpoint-hop, 46-known-drop, 46-unknown-drop, 46-no-prefix-for-ipv4, 46-bad-encap-ip-header-len, icmp-to-icmp-err, icmp-to-icmpv6-err, icmpv6-to-icmp-err, icmpv6-to-icmpv6-err, encap-cross-cpu-no-match, encap-cross-cpu-preprocess-err, icmp-to-icmp-unknown-l4, icmp-to-icmpv6-unknown-l4, icmpv6-to-icmp-unknown-l4, icmpv6-to-icmpv6-unknown-l4, static-nat, echo-to-pool-reply, echo-to-pool-drop, error-to-pool-drop, echo-to-pool-reply-v6, echo-to-pool-drop-v6, error-to-pool-drop-v6, error-ip-mismatch

2.26.87 cgnv6 icmp stats

Statistics for the object icmp

icmp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	icmp
Element URI	/axapi/v3/cgnv6/icmp/stats
Element Attributes	icmp_attributes
Partition Visibility	None
Schema	`icmp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/icmp/stats

icmp attributes

Get Object

GET

/axapi/v3/cgnv6/icmp/stats

icmp attributes

Modify Object

POST

/axapi/v3/cgnv6/icmp/stats

icmp attributes

Replace Object

PUT

/axapi/v3/cgnv6/icmp/stats

icmp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/icmp/stats

icmp attributes

icmp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

46-known-drop

Description NAT64 Reverse Known ICMP Drop

Type: number

Format: counter

46-no-prefix-for-ipv4

Description NAT64 Reverse No Prefix Match for IPv4

Type: number

Format: counter

46-unknown-drop

Description NAT64 Reverse Known ICMPv6 Drop

Type: number

Format: counter

64-known-drop

Description NAT64 Forward Known ICMPv6 Drop

Type: number

Format: counter

64-midpoint-hop

Description NAT64 Forward Unknown Source Drop

Type: number

Format: counter

64-unknown-drop

Description NAT64 Forward Unknown ICMPv6 Drop

Type: number

Format: counter

icmp-bad-type

Description Bad Embedded ICMP Type

Type: number

Format: counter

icmp-no-port-info

Description ICMP Port Info Not Included

Type: number

Format: counter

icmp-no-session-drop

Description ICMP No Matching Session Drop

Type: number

Format: counter

icmp-to-icmp

Description ICMP to ICMP Conversion

Type: number

Format: counter

icmp-to-icmp-err

Description ICMP to ICMP Conversion Error

Type: number

Format: counter

icmp-to-icmpv6

Description ICMP to ICMPv6 Conversion

Type: number

Format: counter

icmp-to-icmpv6-err

Description ICMP to ICMPv6 Conversion Error

Type: number

Format: counter

icmp-unknown-type

Description ICMP Unknown Type

Type: number

Format: counter

icmpv6-bad-type

Description Bad Embedded ICMPv6 Type

Type: number

Format: counter

icmpv6-no-port-info

Description ICMPv6 Port Info Not Included

Type: number

Format: counter

icmpv6-no-session-drop

Description ICMPv6 No Matching Session Drop

Type: number

Format: counter

icmpv6-to-icmp

Description ICMPv6 to ICMP Conversion

Type: number

Format: counter

icmpv6-to-icmp-err

Description ICMPv6 to ICMP Conversion Error

Type: number

Format: counter

icmpv6-to-icmpv6

Description ICMPv6 to ICMPv6 Conversion

Type: number

Format: counter

icmpv6-to-icmpv6-err

Description ICMPv6 to ICMPv6 Conversion Error

Type: number

Format: counter

icmpv6-unknown-type

Description ICMPv6 Unknown Type

Type: number

Format: counter

2.26.88 cgnv6 l4

CGNV6 L4 Statistics

l4 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4
Element URI	/axapi/v3/cgnv6/l4
Element Attributes	l4_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/l4/stats
Schema	`l4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/l4

l4 attributes

```
POST /axapi/v3/cgnv6/l4
Payload:
{
    "l4": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/l4

l4 attributes

```
GET /axapi/v3/cgnv6/l4
Reponse:
{
    "l4": {
        "uuid": "c5edab2a-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/l4"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/l4

l4 attributes

Replace Object

PUT

/axapi/v3/cgnv6/l4

l4 attributes

```
PUT /axapi/v3/cgnv6/l4
Payload:
{
    "l4": {
        "sampling-enable": [
            {
                "counters1": "no-fwd-route"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/l4

l4 attributes

```
DELETE /axapi/v3/cgnv6/l4
Reponse:
{
    "response": {
```

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```
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

l4 attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description ‘all’: all; ‘no-fwd-route’: No Forward Route for Session; ‘no-rev-route’: No Reverse Route for Session; ‘out-of-session-memory’: Out of Session Memory; ‘tcp-rst-sent’: TCP RST Sent; ‘ipip-icmp-reply-sent’: IPIP ICMP Echo Reply Sent; ‘icmp-filtered-sent’: ICMP Administratively Filtered Sent; ‘icmp-host-unreachable-sent’: ICMP Host Unreachable Sent; ‘icmp-reply-no-session-drop’: ICMP Reply No Session Drop; ‘ipip-truncated’: IPIP Truncated Packet; ‘ip-src-invalid-unicast’: IPv4 Source Not Valid Unicast; ‘ip-dst-invalid-unicast’: IPv4 Destination Not Valid Unicast; ‘ipv6-src-invalid-unicast’: IPv6 Source Not Valid Unicast; ‘ipv6-dst-invalid-unicast’: IPv6 Destination Not Valid Unicast; ‘rate_drop_reset_unkn’: Rate Drop reset; ‘bad-l3-protocol’: Bad Layer 3 Protocol; ‘special-ipv4-no-route’: Stateless IPv4 No Forward Route; ‘special-ipv6-no-route’: Stateless IPv6 No Forward Route; ‘icmp-reply-sent’: ICMP Echo Reply Sent; ‘icmpv6-reply-sent’: ICMPv6 Echo Reply Sent; ‘out-of-state-dropped’: L4 Out of State packets; ‘ttl-exceeded-sent’: ICMP TTL Exceeded Sent; ‘cross-cpu-alg-gre-no-match’: ALG GRE Cross CPU No Matching Session; ‘cross-cpu-alg-gre-preprocess-err’: ALG GRE Cross CPU Preprocess Error; ‘lsn-fast-setup’: LSN Fast Setup Attempt; ‘lsn-fast-setup-err’: LSN Fast Setup Error; ‘nat64-fast-setup’: NAT64 Fast Setup Attempt; ‘nat64-fast-setup-err’: NAT64 Fast Setup Error; ‘dslite-fast-setup’: DS-Lite Fast Setup Attempt; ‘dslite-fast-setup-err’: DS-Lite Fast Setup Error; ‘fast-setup-delayed-err’: Fast Setup Delayed Error; ‘fast-setup-mtu-too-small’: Fast Setup MTU Too Small; ‘fixed-nat44-fast-setup’: Fixed NAT Fast Setup Attempt; ‘fixed-nat44-fast-setup-err’: Fixed NAT Fast Setup Error; ‘fixed-nat64-fast-setup’: Fixed NAT Fast Setup Attempt; ‘fixed-nat64-fast-setup-err’: Fixed NAT Fast Setup Error; ‘fixed-nat-dslite-fast-setup’: Fixed NAT Fast Setup Attempt; ‘fixed-nat-dslite-fast-setup-err’: Fixed NAT Fast Setup Error; ‘fixed-nat-fast-setup-delayed-err’: Fixed NAT Fast Setup Delayed Error; ‘fixed-nat-fast-setup-mtu-too-small’: Fixed NAT

Fast Setup MTU Too Small; 'static-nat-fast-setup': Static NAT Fast Setup Attempt; 'static-nat-fast-setup-err': Static NAT Fast Setup Error; 'dst-nat-needed-drop': Destination NAT Needed Drop; 'invalid-nat64-translated-addr': Invalid NAT64 Translated IPv4 Address; 'tcp-rst-loop-drop': RST Loop Drop; 'static-nat-alloc': Static NAT Alloc; 'static-nat-free': Static NAT Free; 'process-l4': Process L4; 'preprocess-error': Preprocess Error; 'process-special': Process Special; 'process-continue': Process Continue; 'process-error': Process Error; 'fw-match-no-rule-drop': Firewall Matched No CGNv6 Rule Drop; 'ip-unknown-process': Process IP Unknown; 'src-nat-pool-not-found': Src NAT Pool Not Found; 'dst-nat-pool-not-found': Dst NAT Pool Not Found; 'l3-ip-src-invalid-unicast': IPv4 L3 Source Invalid Unicast; 'l3-ip-dst-invalid-unicast': IPv4 L3 Destination Invalid Unicast; 'l3-ipv6-src-invalid-unicast': IPv6 L3 Source Invalid Unicast; 'l3-ipv6-dst-invalid-unicast': IPv6 L3 Destination Invalid Unicast; 'fw-zone-mismatch-rerouting-drop': Rerouting Zone Mismatch Drop; 'nat-range-list-acl-deny': Nat range-list ACL deny; 'nat-range-list-acl-permit': Nat range-list ACL permit; 'fw-next-action-incorrect-drop': FW Next Action Incorrect Drop;

Type: string

Supported Values: all, no-fwd-route, no-rev-route, out-of-session-memory, tcp-rst-sent, ipip-icmp-reply-sent, icmp-filtered-sent, icmp-host-unreachable-sent, icmp-reply-no-session-drop, ipip-truncated, ip-src-invalid-unicast, ip-dst-invalid-unicast, ipv6-src-invalid-unicast, ipv6-dst-invalid-unicast, rate_drop_reset_unkn, bad-l3-protocol, special-ipv4-no-route, special-ipv6-no-route, icmp-reply-sent, icmpv6-reply-sent, out-of-state-dropped, ttl-exceeded-sent, cross-cpu-alg-gre-no-match, cross-cpu-alg-gre-preprocess-err, lsn-fast-setup, lsn-fast-setup-err, nat64-fast-setup, nat64-fast-setup-err, dslite-fast-setup, dslite-fast-setup-err, fast-setup-delayed-err, fast-setup-mtu-too-small, fixed-nat44-fast-setup, fixed-nat44-fast-setup-err, fixed-nat64-fast-setup, fixed-nat64-fast-setup-err, fixed-nat-dslite-fast-setup, fixed-nat-dslite-fast-setup-err, fixed-nat-fast-setup-delayed-err, fixed-nat-fast-setup-mtu-too-small, static-nat-fast-setup, static-nat-fast-setup-err, dst-nat-needed-drop, invalid-nat64-translated-addr, tcp-rst-loop-drop, static-nat-alloc, static-nat-free, process-l4, preprocess-error, process-special, process-continue, process-error, fw-match-no-rule-drop, ip-unknown-process, src-nat-pool-not-found, dst-nat-pool-not-found, l3-ip-src-invalid-unicast, l3-ip-dst-invalid-unicast, l3-ipv6-src-invalid-unicast, l3-ipv6-dst-invalid-unicast, fw-zone-mismatch-rerouting-drop, nat-range-list-acl-deny, nat-range-list-acl-permit, fw-next-action-incorrect-drop

2.26.89 cgnv6 l4 stats

Statistics for the object l4

l4 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4
Element URI	/axapi/v3/cgnv6/l4/stats
Element Attributes	l4_attributes
Partition Visibility	None
Schema	`l4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/l4/stats

l4 attributes

Get Object

GET

/axapi/v3/cgnv6/l4/stats

l4 attributes

Modify Object

POST

/axapi/v3/cgnv6/l4/stats

l4 attributes

Replace Object

PUT

/axapi/v3/cgnv6/l4/stats

l4 attributes

Delete Object

DELETE

/axapi/v3/cgnv6/l4/stats

l4 attributes

l4 attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

icmp-filtered-sent

Description ICMP Administratively Filtered Sent

Type: number

Format: counter

icmp-host-unreachable-sent

Description ICMP Host Unreachable Sent

Type: number

Format: counter

icmp-reply-no-session-drop

Description ICMP Reply No Session Drop

Type: number

Format: counter

ip-dst-invalid-unicast

Description IPv4 Destination Not Valid Unicast

Type: number

Format: counter

ip-src-invalid-unicast

Description IPv4 Source Not Valid Unicast

Type: number

Format: counter

ipip-icmp-reply-sent

Description IPIP ICMP Echo Reply Sent

Type: number

Format: counter

ipip-truncated

Description IPIP Truncated Packet

Type: number

Format: counter

ipv6-dst-invalid-unicast

Description IPv6 Destination Not Valid Unicast

Type: number

Format: counter

ipv6-src-invalid-unicast

Description IPv6 Source Not Valid Unicast

Type: number

Format: counter

no-fwd-route

Description No Forward Route for Session

Type: number

Format: counter

no-rev-route

Description No Reverse Route for Session

Type: number

Format: counter

out-of-session-memory

Description Out of Session Memory

Type: number

Format: counter

rate_drop_reset_unkn

Description Rate Drop reset

Type: number

Format: counter

tcp-rst-sent

Description TCP RST Sent

Type: number

Format: counter

2.26.90 cgnv6 logging

CGNV6 Logging Statistics

logging Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	logging
Element URI	/axapi/v3/cgnv6/logging
Element Attributes	logging_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/logging/stats
Schema	`logging schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/logging

logging attributes

```
POST /axapi/v3/cgnv6/logging
Payload:
{
    "logging": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
```

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```
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/logging

logging attributes

```
GET /axapi/v3/cgnv6/logging
Reponse:
{
    "logging": {
        "uuid": "c5ed522e-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "source-address": {
            "uuid": "c5ed52ce-0890-11f0-a250-a9cf5715f49c",
            "a10-url": "/axapi/v3/cgnv6/logging/source-address"
        },
        "tcp-svr-status": {
            "uuid": "c5ed5364-0890-11f0-a250-a9cf5715f49c",
            "a10-url": "/axapi/v3/cgnv6/logging/tcp-svr-status"
        },
        "nat-resource-exhausted": {
            "level": "critical",
            "uuid": "c5ed5404-0890-11f0-a250-a9cf5715f49c",
            "a10-url": "/axapi/v3/cgnv6/logging/nat-resource-exhausted"
        },
        "nat-quota-exceeded": {
            "level": "warning",
            "uuid": "c5eda972-0890-11f0-a250-a9cf5715f49c",
            "a10-url": "/axapi/v3/cgnv6/logging/nat-quota-exceeded"
        },
        "pool-based-log": {
            "cycle": 30,
            "uuid": "c5edaa76-0890-11f0-a250-a9cf5715f49c",
            "a10-url": "/axapi/v3/cgnv6/logging/pool-based-log"
        },
        "a10-url": "/axapi/v3/cgnv6/logging"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/logging

logging attributes

Replace Object

PUT

/axapi/v3/cgnv6/logging

logging attributes

```
PUT /axapi/v3/cgnv6/logging
Payload:
{
    "logging": {
        "sampling-enable": [
            {
                "counters1": "tcp-session-created"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/logging

logging attributes

```
DELETE /axapi/v3/cgnv6/logging
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

logging attributes

nat-quota-exceeded

Description: nat-quota-exceeded is a **JSON Block**. Please see below for *nat-quota-exceeded*

Type: Object

Reference Object: */axapi/v3/cgnv6/logging/nat-quota-exceeded*

nat-resource-exhausted

Description: nat-resource-exhausted is a **JSON Block**. Please see below for *nat-resource-exhausted*

Type: Object

Reference Object: */axapi/v3/cgnv6/logging/nat-resource-exhausted*

pool-based-log

Description: pool-based-log is a **JSON Block**. Please see below for *pool-based-log*

Type: Object

Reference Object: */axapi/v3/cgnv6/logging/pool-based-log*

sampling-enable

Type: List

source-address

Description: source-address is a **JSON Block**. Please see below for *source-address*

Type: Object

Reference Object: */axapi/v3/cgnv6/logging/source-address*

tcp-svr-status

Description: tcp-svr-status is a **JSON Block**. Please see below for *tcp-svr-status*

Type: Object

Reference Object: */axapi/v3/cgnv6/logging/tcp-svr-status*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-svr-status

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

source-address

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat-quota-exceeded

Specification	Value
Type	*object*

level

Description 'warning': Log level Warning (Default); 'critical': Log level Critical; 'notice': Log level Notice;

Type: string

Supported Values: warning, critical, notice

Default: warning

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'tcp-session-created': TCP Session Created; 'tcp-session-deleted': TCP Session Deleted; 'tcp-port-allocated': TCP Port Allocated; 'tcp-port-freed': TCP Port Freed; 'tcp-port-batch-allocated': TCP Port Batch Allocated; 'tcp-port-batch-freed': TCP Port Batch Freed; 'udp-session-created': UDP Session Created; 'udp-session-deleted': UDP Session Deleted; 'udp-port-allocated': UDP Port Allocated; 'udp-port-freed': UDP Port Freed; 'udp-port-batch-allocated': UDP Port Batch Allocated; 'udp-port-batch-freed': UDP Port Batch

Freed; 'icmp-session-created': ICMP Session Created; 'icmp-session-deleted': ICMP Session Deleted; 'icmp-resource-allocated': ICMP Resource Allocated; 'icmp-resource-freed': ICMP Resource Freed; 'icmpv6-session-created': ICMPV6 Session Created; 'icmpv6-session-deleted': ICMPV6 Session Deleted; 'icmpv6-resource-allocated': ICMPV6 Resource Allocated; 'icmpv6-resource-freed': ICMPV6 Resource Freed; 'gre-session-created': GRE Session Created; 'gre-session-deleted': GRE Session Deleted; 'gre-resource-allocated': GRE Resource Allocated; 'gre-resource-freed': GRE Resource Freed; 'esp-session-created': ESP Session Created; 'esp-session-deleted': ESP Session Deleted; 'esp-resource-allocated': ESP Resource Allocated; 'esp-resource-freed': ESP Resource Freed; 'fixed-nat-user-ports': Fixed NAT Inside User Port Mapping; 'fixed-nat-disable-config-logged': Fixed NAT Periodic Configs Logged; 'fixed-nat-disable-config-logs-sent': Fixed NAT Periodic Config Logs Sent; 'fixed-nat-periodic-config-logs-sent': Fixed NAT Disabled Configs Logged; 'fixed-nat-periodic-config-logged': Fixed NAT Disabled Config Logs Sent; 'fixed-nat-interim-updated': Fixed NAT Interim Updated; 'enhanced-user-log': Enhanced User Log; 'log-sent': Log Packets Sent; 'log-dropped': Log Packets Dropped; 'conn-tcp-established': TCP Connection Established; 'conn-tcp-dropped': TCP Connection Lost; 'tcp-port-overloading-allocated': TCP Port Overloading Allocated; 'tcp-port-overloading-freed': TCP Port Overloading Freed; 'udp-port-overloading-allocated': UDP Port Overloading Allocated; 'udp-port-overloading-freed': UDP Port Overloading Freed; 'http-request-logged': HTTP Request Logged; 'reduced-logs-by-destination': Reduced Logs by Destination Protocol and Port; 'out-of-buffers': Out of Buffers; 'add-msg-failed': Add Message to Buffer Failed; 'rtsp-port-allocated': RTSP UDP Port Allocated; 'rtsp-port-freed': RTSP UDP Port Freed; 'conn-tcp-create-failed': TCP Connection Failed; 'ipv4-frag-applied': IPv4 Fragmentation Applied; 'ipv4-frag-failed': IPv4 Fragmentation Failed; 'ipv6-frag-applied': IPv6 Fragmentation Applied; 'ipv6-frag-failed': IPv6 Fragmentation Failed; 'interim-update-scheduled': Port Allocation Interim Update Scheduled; 'interim-update-schedule-failed': Port Allocation Interim Update Failed; 'interim-update-terminated': Port Allocation Interim Update Terminated; 'interim-update-memory-freed': Port Allocation Interim Update Memory Freed; 'interim-update-no-buff-retried': Port Allocation Interim Update Memory Freed; 'tcp-port-batch-interim-updated': TCP Port Batch Interim Updated; 'udp-port-batch-interim-updated': UDP Port Batch Interim Updated; 'port-block-accounting-freed': Port Allocation Accounting Freed; 'port-block-accounting-allocated': Port Allocation Accounting Allocated; 'log-message-too-long': Log message too long; 'http-out-of-order-dropped': HTTP out-of-order dropped; 'http-alloc-failed': HTTP Request Info Allocation Failed; 'http-frag-merge-failed-dropped': HTTP frag merge failed dropped; 'http-malloc': HTTP mem allocate; 'http-mfree': HTTP mem free; 'http-spm-alloc-type0': HTTP Conn SPM Type 0 allocate; 'http-spm-alloc-type1': HTTP Conn SPM Type 1 allocate; 'http-spm-alloc-type2': HTTP Conn SPM Type 2 allocate; 'http-spm-alloc-type3': HTTP Conn SPM Type 3 allocate; 'http-spm-alloc-type4': HTTP Conn SPM Type 4 allocate; 'http-spm-free-type0': HTTP Conn SPM Type 0 free; 'http-spm-free-type1': HTTP Conn SPM Type 1 free; 'http-spm-free-type2': HTTP Conn SPM Type 2 free; 'http-spm-free-type3': HTTP Conn SPM Type 3 free; 'http-spm-free-type4': HTTP Conn SPM Type 4 free; 'iddos-l3-entry-create': iDDoS L3 Entry Created; 'iddos-l3-entry-delete': iDDoS L3 Entry Deleted; 'iddos-l4-entry-create': iDDoS L4 Entry Created; 'iddos-l4-entry-delete': iDDoS L4 Entry Deleted;

Type: string

Supported Values: all, tcp-session-created, tcp-session-deleted, tcp-port-allocated, tcp-port-freed, tcp-port-batch-allocated, tcp-port-batch-freed, udp-session-created, udp-session-deleted, udp-port-allocated, udp-port-freed, udp-port-batch-allocated, udp-port-batch-freed, icmp-session-created, icmp-session-deleted, icmp-resource-allocated, icmp-resource-freed, icmpv6-session-created, icmpv6-session-deleted, icmpv6-resource-allocated, icmpv6-resource-freed, gre-session-created, gre-session-deleted, gre-resource-allocated, gre-resource-freed, esp-session-created, esp-session-deleted, esp-resource-allocated, esp-resource-freed, fixed-nat-user-ports, fixed-nat-disable-config-logged, fixed-nat-disable-config-logs-sent, fixed-nat-periodic-config-logs-sent, fixed-nat-periodic-config-logged, fixed-nat-interim-

updated, enhanced-user-log, log-sent, log-dropped, conn-tcp-established, conn-tcp-dropped, tcp-port-overloading-allocated, tcp-port-overloading-freed, udp-port-overloading-allocated, udp-port-overloading-freed, http-request-logged, reduced-logs-by-destination, out-of-buffers, add-msg-failed, rtsp-port-allocated, rtsp-port-freed, conn-tcp-create-failed, ipv4-frag-applied, ipv4-frag-failed, ipv6-frag-applied, ipv6-frag-failed, interim-update-scheduled, interim-update-schedule-failed, interim-update-terminated, interim-update-memory-freed, interim-update-no-buff-retried, tcp-port-batch-interim-updated, udp-port-batch-interim-updated, port-block-accounting-freed, port-block-accounting-allocated, log-message-too-long, http-out-of-order-dropped, http-alloc-failed, http-frag-merge-failed-dropped, http-malloc, http-mfree, http-spm-alloc-type0, http-spm-alloc-type1, http-spm-alloc-type2, http-spm-alloc-type3, http-spm-alloc-type4, http-spm-free-type0, http-spm-free-type1, http-spm-free-type2, http-spm-free-type3, http-spm-free-type4, iddos-l3-entry-create, iddos-l3-entry-delete, iddos-l4-entry-create, iddos-l4-entry-delete

pool-based-log

Specification	Value
Type	*object*

cycle

Description Logging cycle

Type: number

Range: 0-1800

Default: 30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat-resource-exhausted

Specification	Value
Type	*object*

level

Description ‘warning’: Log level Warning; ‘critical’: Log level Critical (Default); ‘notice’: Log level Notice;

Type: string

Supported Values: warning, critical, notice

Default: critical

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.91 cgnv6 logging nat-quota-exceeded

Change logging level for NAT Quota Exceeded

nat-quota-exceeded Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	nat-quota-exceeded
Element URI	/axapi/v3/cgnv6/logging/nat-quota-exceeded
Element Attributes	nat-quota-exceeded_attributes
Partition Visibility	shared
Schema	`nat-quota-exceeded schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/logging/nat-quota-exceeded

nat-quota-exceeded attributes

```
POST /axapi/v3/cgnv6/logging/nat-quota-exceeded
Payload:
{
    "nat-quota-exceeded": {
        "level": "warning"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/logging/nat-quota-exceeded

nat-quota-exceeded attributes

```
GET /axapi/v3/cgnv6/logging/nat-quota-exceeded
Reponse:
{
    "nat-quota-exceeded": {
        "level": "warning",
        "uuid": "c5eda972-0890-11f0-a250-a9cf5715f49c",
```

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```
        "a10-url": "/axapi/v3/cgnv6/logging/nat-quota-exceeded"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/logging/nat-quota-exceeded

nat-quota-exceeded attributes

Replace Object

PUT

/axapi/v3/cgnv6/logging/nat-quota-exceeded

nat-quota-exceeded attributes

```
PUT /axapi/v3/cgnv6/logging/nat-quota-exceeded
Payload:
{
    "nat-quota-exceeded": {
        "level": "warning"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/logging/nat-quota-exceeded

nat-quota-exceeded attributes

```
DELETE /axapi/v3/cgnv6/logging/nat-quota-exceeded
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

nat-quota-exceeded attributes

level

Description 'warning': Log level Warning (Default); 'critical': Log level Critical; 'notice': Log level Notice;

Type: string

Supported Values: warning, critical, notice

Default: warning

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.92 cgnv6 logging nat-resource-exhausted

Change logging level for NAT Resource Exhausted

nat-resource-exhausted Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	nat-resource-exhausted
Element URI	/axapi/v3/cgnv6/logging/nat-resource-exhausted
Element Attributes	nat-resource-exhausted_attributes
Partition Visibility	shared
Schema	`nat-resource-exhausted schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/logging/nat-resource-exhausted

nat-resource-exhausted attributes

```
POST /axapi/v3/cgnv6/logging/nat-resource-exhausted
Payload:
{
    "nat-resource-exhausted": {
        "level": "warning"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/logging/nat-resource-exhausted

nat-resource-exhausted attributes

```
GET /axapi/v3/cgnv6/logging/nat-resource-exhausted
Reponse:
{
    "nat-resource-exhausted": {
        "level": "warning",
        "uuid": "c5ed5404-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/logging/nat-resource-exhausted"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/logging/nat-resource-exhausted

nat-resource-exhausted attributes

Replace Object

PUT

/axapi/v3/cgnv6/logging/nat-resource-exhausted

nat-resource-exhausted attributes

```
PUT /axapi/v3/cgnv6/logging/nat-resource-exhausted
Payload:
{
    "nat-resource-exhausted": {
        "level": "warning"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/logging/nat-resource-exhausted

nat-resource-exhausted attributes

```
DELETE /axapi/v3/cgnv6/logging/nat-resource-exhausted
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

nat-resource-exhausted attributes

level

Description 'warning': Log level Warning; 'critical': Log level Critical (Default); 'notice': Log level Notice;

Type: string

Supported Values: warning, critical, notice

Default: critical

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.93 cgnv6 logging pool-based-log

Change logging period for pool-based logs, e.g. NAT Quota Exceeded

pool-based-log Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pool-based-log
Element URI	/axapi/v3/cgnv6/logging/pool-based-log
Element Attributes	pool-based-log_attributes
Partition Visibility	shared
Schema	`pool-based-log schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/logging/pool-based-log

pool-based-log attributes

```
POST /axapi/v3/cgnv6/logging/pool-based-log
Payload:
{
    "pool-based-log": {
```

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```
        "cycle": 0
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/logging/pool-based-log

pool-based-log attributes

```
GET /axapi/v3/cgnv6/logging/pool-based-log
Reponse:
{
    "pool-based-log": {
        "cycle": 0,
        "uuid": "c5edaa76-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/logging/pool-based-log"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/logging/pool-based-log

pool-based-log attributes

Replace Object

PUT

/axapi/v3/cgnv6/logging/pool-based-log

pool-based-log attributes

```
PUT /axapi/v3/cgnv6/logging/pool-based-log
Payload:
{
    "pool-based-log": {
        "cycle": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/logging/pool-based-log

pool-based-log attributes

```
DELETE /axapi/v3/cgnv6/logging/pool-based-log
Reponse:
```

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```
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

pool-based-log attributes

cycle

Description Logging cycle

Type: number

Range: 0-1800

Default: 30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.94 cgnv6 logging source-address

source-address Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	source-address
Element URI	/axapi/v3/cgnv6/logging/source-address
Element Attributes	source-address_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/logging/source-address/oper
Schema	`source-address schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/logging/source-address

source-address attributes

Get Object

GET

/axapi/v3/cgnv6/logging/source-address

source-address attributes

Modify Object

POST

/axapi/v3/cgnv6/logging/source-address

source-address attributes

Replace Object

PUT

/axapi/v3/cgnv6/logging/source-address

source-address attributes

Delete Object

DELETE

/axapi/v3/cgnv6/logging/source-address

source-address attributes

source-address attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.95 cgnv6 logging source-address oper

Operational Status for the object source-address

source-address Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	source-address
Element URI	/axapi/v3/cgnv6/logging/source-address/oper
Element Attributes	source-address_attributes
Partition Visibility	None
Schema	`source-address schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/logging/source-address/oper

source-address attributes

Get Object

GET

/axapi/v3/cgnv6/logging/source-address/oper

source-address attributes

Modify Object

POST

/axapi/v3/cgnv6/logging/source-address/oper

source-address attributes

Replace Object

PUT

/axapi/v3/cgnv6/logging/source-address/oper

source-address attributes

Delete Object

DELETE

/axapi/v3/cgnv6/logging/source-address/oper

source-address attributes

source-address attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

source-address-list

Description: source-address-list is a **JSON Block**. Please see below for *oper_source-address-list*

Type: Object

oper_source-address-list

Specification	Value
Type	*object*

ref-count

Description

Type: number

source-address

Description

Type: string

tcp-allocated

Description

Type: number

tcp-failed

Description

Type: number

tcp-freed

Description

Type: number

tcp-total

Description

Type: number

udp-allocated

Description

Type: number

udp-failed

Description

Type: number

udp-freed

Description

Type: number

udp-total

Description

Type: number

2.26.96 cgnv6 logging stats

Statistics for the object logging

logging Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	logging
Element URI	/axapi/v3/cgnv6/logging/stats
Element Attributes	logging_attributes
Partition Visibility	None
Schema	`logging schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/logging/stats

logging attributes

Get Object

GET

/axapi/v3/cgnv6/logging/stats

logging attributes

Modify Object

POST

/axapi/v3/cgnv6/logging/stats

logging attributes

Replace Object

PUT

/axapi/v3/cgnv6/logging/stats

logging attributes

Delete Object

DELETE

/axapi/v3/cgnv6/logging/stats

logging attributes

logging attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

conn-tcp-dropped

Description TCP Connection Lost

Type: number

Format: counter

conn-tcp-established

Description TCP Connection Established

Type: number

Format: counter

enhanced-user-log

Description Enhanced User Log

Type: number

Format: counter

esp-resource-allocated

Description ESP Resource Allocated

Type: number

Format: counter

esp-resource-freed

Description ESP Resource Freed

Type: number

Format: counter

esp-session-created

Description ESP Session Created

Type: number

Format: counter

esp-session-deleted

Description ESP Session Deleted

Type: number

Format: counter

fixed-nat-disable-config-logged

Description Fixed NAT Periodic Configs Logged

Type: number

Format: counter

fixed-nat-disable-config-logs-sent

Description Fixed NAT Periodic Config Logs Sent

Type: number

Format: counter

fixed-nat-interim-updated

Description Fixed NAT Interim Updated

Type: number

Format: counter

fixed-nat-periodic-config-logged

Description Fixed NAT Disabled Config Logs Sent

Type: number

Format: counter

fixed-nat-periodic-config-logs-sent

Description Fixed NAT Disabled Configs Logged

Type: number

Format: counter

fixed-nat-user-ports

Description Fixed NAT Inside User Port Mapping

Type: number

Format: counter

gre-resource-allocated

Description GRE Resource Allocated

Type: number

Format: counter

gre-resource-freed

Description GRE Resource Freed

Type: number

Format: counter

gre-session-created

Description GRE Session Created

Type: number

Format: counter

gre-session-deleted

Description GRE Session Deleted

Type: number

Format: counter

http-request-logged

Description HTTP Request Logged

Type: number

Format: counter

icmp-resource-allocated

Description ICMP Resource Allocated

Type: number

Format: counter

icmp-resource-freed

Description ICMP Resource Freed

Type: number

Format: counter

icmp-session-created

Description ICMP Session Created

Type: number

Format: counter

icmp-session-deleted

Description ICMP Session Deleted

Type: number

Format: counter

icmpv6-resource-allocated

Description ICMPV6 Resource Allocated

Type: number

Format: counter

icmpv6-resource-freed

Description ICMPV6 Resource Freed

Type: number

Format: counter

icmpv6-session-created

Description ICMPV6 Session Created

Type: number

Format: counter

icmpv6-session-deleted

Description ICMPV6 Session Deleted

Type: number

Format: counter

iddos-l3-entry-create

Description iDDoS L3 Entry Created

Type: number

Format: counter

iddos-l3-entry-delete

Description iDDoS L3 Entry Deleted

Type: number

Format: counter

iddos-l4-entry-create

Description iDDoS L4 Entry Created

Type: number

Format: counter

iddos-l4-entry-delete

Description iDDoS L4 Entry Deleted

Type: number

Format: counter

interim-update-scheduled

Description Port Allocation Interim Update Scheduled

Type: number

Format: counter

log-dropped

Description Log Packets Dropped

Type: number

Format: counter

log-sent

Description Log Packets Sent

Type: number

Format: counter

reduced-logs-by-destination

Description Reduced Logs by Destination Protocol and Port

Type: number

Format: counter

tcp-port-allocated

Description TCP Port Allocated

Type: number

Format: counter

tcp-port-batch-allocated

Description TCP Port Batch Allocated

Type: number

Format: counter

tcp-port-batch-freed

Description TCP Port Batch Freed

Type: number

Format: counter

tcp-port-batch-interim-updated

Description TCP Port Batch Interim Updated

Type: number

Format: counter

tcp-port-freed

Description TCP Port Freed

Type: number

Format: counter

tcp-port-overloading-allocated

Description TCP Port Overloading Allocated

Type: number

Format: counter

tcp-port-overloading-freed

Description TCP Port Overloading Freed

Type: number

Format: counter

tcp-session-created

Description TCP Session Created

Type: number

Format: counter

tcp-session-deleted

Description TCP Session Deleted

Type: number

Format: counter

udp-port-allocated

Description UDP Port Allocated

Type: number

Format: counter

udp-port-batch-allocated

Description UDP Port Batch Allocated

Type: number

Format: counter

udp-port-batch-freed

Description UDP Port Batch Freed

Type: number

Format: counter

udp-port-batch-interim-updated

Description UDP Port Batch Interim Updated

Type: number

Format: counter

udp-port-freed

Description UDP Port Freed

Type: number

Format: counter

udp-port-overloading-allocated

Description UDP Port Overloading Allocated

Type: number

Format: counter

udp-port-overloading-freed

Description UDP Port Overloading Freed

Type: number

Format: counter

udp-session-created

Description UDP Session Created

Type: number

Format: counter

udp-session-deleted

Description UDP Session Deleted

Type: number

Format: counter

2.26.97 cgnv6 logging tcp-svr-status

tcp-svr-status Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tcp-svr-status
Element URI	/axapi/v3/cgnv6/logging/tcp-svr-status
Element Attributes	tcp-svr-status_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/logging/tcp-svr-status/oper
Schema	`tcp-svr-status schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/logging/tcp-svr-status

tcp-svr-status attributes

Get Object

GET

/axapi/v3/cgnv6/logging/tcp-svr-status

tcp-svr-status attributes

Modify Object

POST

/axapi/v3/cgnv6/logging/tcp-svr-status

tcp-svr-status attributes

Replace Object

PUT

/axapi/v3/cgnv6/logging/tcp-svr-status

tcp-svr-status attributes

Delete Object

DELETE

/axapi/v3/cgnv6/logging/tcp-svr-status

tcp-svr-status attributes

tcp-svr-status attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.98 cgnv6 logging tcp-svr-status oper

Operational Status for the object tcp-svr-status

tcp-svr-status Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tcp-svr-status
Element URI	/axapi/v3/cgnv6/logging/tcp-svr-status/oper
Element Attributes	tcp-svr-status_attributes
Partition Visibility	None
Schema	`tcp-svr-status schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/logging/tcp-svr-status/oper

tcp-svr-status attributes

Get Object

GET

/axapi/v3/cgnv6/logging/tcp-svr-status/oper

tcp-svr-status attributes

Modify Object

POST

/axapi/v3/cgnv6/logging/tcp-svr-status/oper

tcp-svr-status attributes

Replace Object

PUT

/axapi/v3/cgnv6/logging/tcp-svr-status/oper

tcp-svr-status attributes

Delete Object

DELETE

/axapi/v3/cgnv6/logging/tcp-svr-status/oper

tcp-svr-status attributes

tcp-svr-status attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

tcp-svr-list

Description: tcp-svr-list is a **JSON Block**. Please see below for *oper_tcp-svr-list*

Type: Object

oper_tcp-svr-list

Specification	Value
Type	*object*

num-cpus

Description

Type: number

overall-status

Description

Type: number

server-name

Description

Type: string

server-port

Description

Type: number

status

Description

Type: string

template

Description

Type: string

2.26.99 cgnv6 lsn

Set Large-Scale NAT parameters

lsn Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	lsn
Element URI	/axapi/v3/cgnv6/lsn
Element Attributes	lsn_attributes
Partition Visibility	shared
Schema	`lsn schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/lsn

lsn_attributes

lsn attributes

alg

Description: alg is a **JSON Block**. Please see below for *alg*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg*

all-sessions

Description: all-sessions is a **JSON Block**. Please see below for *all-sessions*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/all-sessions*

data-sessions

Description: data-sessions is a **JSON Block**. Please see below for *data-sessions*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/data-sessions*

endpoint-independent-filtering

Description: endpoint-independent-filtering is a **JSON Block**. Please see below for *endpoint-independent-filtering*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-filtering*

endpoint-independent-mapping

Description: endpoint-independent-mapping is a **JSON Block**. Please see below for *endpoint-independent-mapping*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-mapping*

enhanced-user-tracking

Description: enhanced-user-tracking is a **JSON Block**. Please see below for *enhanced-user-tracking*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/enhanced-user-tracking*

full-cone-session

Description: full-cone-session is a **JSON Block**. Please see below for *full-cone-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/full-cone-session*

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/global*

health-check-gateway-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn/health-check-gateway/{ipv4-addr}+{ipv6-addr}*

hw-accelerate

Description: hw-accelerate is a **JSON Block**. Please see below for *hw-accelerate*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/hw-accelerate*

inside

Description: inside is a **JSON Block**. Please see below for *inside*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/inside*

per-instance

Description: per-instance is a **JSON Block**. Please see below for *per-instance*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/per-instance*

performance

Description: performance is a **JSON Block**. Please see below for *performance*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/performance*

port-overloading

Description: port-overloading is a **JSON Block**. Please see below for *port-overloading*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading*

port-reservation-entries

Description: port-reservation-entries is a **JSON Block**. Please see below for *port-reservation-entries*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-reservation-entries*

port-reservation-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn/port-reservation/{inside}+{inside-port-start}+{inside-port-end}+{nat}+{nat-port-start}+{nat-port-end}*

radius

Description: radius is a **JSON Block**. Please see below for *radius*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/radius*

stun-timeout

Description: stun-timeout is a **JSON Block**. Please see below for *stun-timeout*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/stun-timeout*

system-status

Description: system-status is a **JSON Block**. Please see below for *system-status*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/system-status*

tcp

Description: tcp is a **JSON Block**. Please see below for *tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/tcp*

user-quota-session

Description: user-quota-session is a **JSON Block**. Please see below for *user-quota-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/user-quota-session*

all-sessions

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

radius

Specification	Value
Type	*object*

server

Description: server is a **JSON Block**. Please see below for *radius_server*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/radius/server*

radius_server

Specification	Value
Type	*object*

accounting-interim-update

Description 'ignore': Ignore (default); 'append-entry': Append the AVPs to existing entry; 'replace-entry': Replace the AVPs of existing entry;

Type: string

Supported Values: ignore, append-entry, replace-entry

Default: ignore

accounting-on

Description 'ignore': Ignore (default); 'delete-entries-using-attribute': Delete entries matching attribute in RADIUS Table;

Type: string

Supported Values: ignore, delete-entries-using-attribute

Default: ignore

accounting-start

Description 'ignore': Ignore; 'append-entry': Append the AVPs to existing entry (default); 'replace-entry': Replace the AVPs of existing entry;

Type: string

Supported Values: ignore, append-entry, replace-entry

Default: append-entry

accounting-stop

Description 'ignore': Ignore; 'delete-entry': Delete the entry (default); 'delete-entry-and-sessions': Delete the entry and data sessions associated;

Type: string

Supported Values: ignore, delete-entry, delete-entry-and-sessions

Default: delete-entry

attribute

Type: List

attribute-name

Description 'msisdn': Clear using MSISDN; 'imei': Clear using IMEI; 'imsi': Clear using IMSI;

Type: string

Supported Values: msisdn, imei, imsi

Mutual Exclusion: attribute-name and custom-attribute-name are mutually exclusive

custom-attribute-name

Description Clear using customized attribute

Type: string

Maximum Length: 15 characters

Maximum Length: 1 characters

Mutual Exclusion: custom-attribute-name and attribute-name are mutually exclusive

disable-reply

Description Toggle option for RADIUS reply packet(Default: Accounting response will be sent)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

listen-port

Description Configure the listen port of RADIUS server (Port number)

Type: number

Range: 1024-65535

remote

Description: remote is a **JSON Block**. Please see below for *radius_server_remote*

Type: Object

sampling-enable

Type: List

secret

Description Configure shared secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-string

Description The RADIUS secret

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Join a VRRP-A failover group

Type: number

Range: 1-31

radius_server_remote

Specification	Value
Type	*object*

ip-list

Type: List

radius_server_remote_ip-list

Specification	Value
Type	*list*
Block object keys	

ip-list-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

ip-list-name

Description IP-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-list-secret

Description Configure shared secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list-secret-string

Description The RADIUS secret

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

radius_server_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msisdn-received': MSISDN Received; 'imei-received': IMEI Received; 'imsi-received': IMSI Received; 'custom-received': Custom attribute Received; 'radius-request-received': RADIUS Request Received; 'radius-request-dropped': RADIUS Request Dropped (Malformed Packet); 'request-bad-secret-dropped': RADIUS Request Bad Secret Dropped; 'request-no-key-vap-dropped': RADIUS Request No Key Attribute Dropped;

'request-malformed-dropped': RADIUS Request Malformed Dropped; 'request-ignored': RADIUS Request Ignored; 'radius-table-full': RADIUS Request Dropped (Table Full); 'secret-not-configured-dropped': RADIUS Secret Not Configured Dropped; 'ha-standby-dropped': HA Standby Dropped; 'ipv6-prefix-length-mismatch': Framed IPV6 Prefix Length Mismatch; 'invalid-key': Radius Request has Invalid Key Field; 'smp-created': RADIUS SMP Created; 'smp-deleted': RADIUS SMP Deleted; 'smp-mem-allocated': RADIUS SMP Memory Allocated; 'smp-mem-alloc-failed': RADIUS SMP Memory Allocation Failed; 'smp-mem-freed': RADIUS SMP Memory Freed; 'smp-in-rml': RADIUS SMP in RML; 'mem-allocated': RADIUS Memory Allocated; 'mem-alloc-failed': RADIUS Memory Allocation Failed; 'mem-freed': RADIUS Memory Freed; 'ha-sync-create-sent': HA Record Sync Create Sent; 'ha-sync-delete-sent': HA Record Sync Delete Sent; 'ha-sync-create-recv': HA Record Sync Create Received; 'ha-sync-delete-recv': HA Record Sync Delete Received; 'acct-on-filters-full': RADIUS Acct On Request Ignored(Filters Full); 'acct-on-dup-request': Duplicate RADIUS Acct On Request; 'ip-mismatch-delete': Radius Entry IP Mismatch Delete; 'ip-add-race-drop': Radius Entry IP Add Race Drop; 'ha-sync-no-key-vap-dropped': HA Record Sync No key dropped; 'inter-card-msg-fail-drop': Inter-Card Message Fail Drop; 'radius-packets-redirected': RADIUS packets redirected (SO); 'radius-packets-redirect-fail-dropped': RADIUS packets dropped due to redirect failure (SO); 'radius-packets-process-local': RADIUS packets processed locally without redirection (SO); 'radius-packets-dropped-not-lo': RADIUS packets dropped dest not loopback (SO); 'radius-inter-card-dup-redir': RADIUS packet dropped as redirected by other blade (SO);

Type: string

Supported Values: all, msisdn-received, imei-received, imsi-received, custom-received, radius-request-received, radius-request-dropped, request-bad-secret-dropped, request-no-key-vap-dropped, request-malformed-dropped, request-ignored, radius-table-full, secret-not-configured-dropped, ha-standby-dropped, ipv6-prefix-length-mismatch, invalid-key, smp-created, smp-deleted, smp-mem-allocated, smp-mem-alloc-failed, smp-mem-freed, smp-in-rml, mem-allocated, mem-alloc-failed, mem-freed, ha-sync-create-sent, ha-sync-delete-sent, ha-sync-create-recv, ha-sync-delete-recv, acct-on-filters-full, acct-on-dup-request, ip-mismatch-delete, ip-add-race-drop, ha-sync-no-key-vap-dropped, inter-card-msg-fail-drop, radius-packets-redirected, radius-packets-redirect-fail-dropped, radius-packets-process-local, radius-packets-dropped-not-lo, radius-inter-card-dup-redir

radius_server_attribute

Specification	Value
Type	*list*
Block object keys	

attribute-value

Description 'inside-ipv6-prefix': Framed IPv6 Prefix; 'inside-ip': Inside IP address; 'inside-ipv6': Inside IPv6 address; 'imei': International Mobile Equipment Identity (IMEI); 'imsi': International Mobile Subscriber Identity (IMSI); 'msisdn': Mobile Subscriber Integrated Services Digital Network-Number (MSISDN); 'custom1': Customized attribute 1; 'custom2': Customized attribute 2; 'custom3': Customized attribute 3; 'custom4': Customized attribute 4; 'custom5': Customized attribute 5; 'custom6': Customized attribute 6;

Type: string

Supported Values: inside-ipv6-prefix, inside-ip, inside-ipv6, imei, imsi, msisdn, custom1, custom2, custom3, custom4, custom5, custom6

custom-number

Description RADIUS attribute number

Type: number

Range: 1-255

custom-vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

name

Description Customized attribute name

Type: string

Maximum Length: 15 characters

Maximum Length: 1 characters

number

Description RADIUS attribute number

Type: number

Range: 1-255

prefix-length

Description '32': Prefix length 32; '48': Prefix length 48; '64': Prefix length 64; '80': Prefix length 80; '96': Prefix length 96; '112': Prefix length 112;

Type: string

Supported Values: 32, 48, 64, 80, 96, 112

prefix-number

Description RADIUS attribute number

Type: number

Range: 1-255

prefix-vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

value

Description 'hexadecimal': Type of attribute value is hexadecimal;

Type: string

Supported Values: hexadecimal

vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

endpoint-independent-mapping

Specification	Value
Type	*object*

tcp

Description: tcp is a **JSON Block**. Please see below for *endpoint-independent-mapping_tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *endpoint-independent-mapping_udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp*

endpoint-independent-mapping_udp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

endpoint-independent-mapping_udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

endpoint-independent-mapping_tcp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

endpoint-independent-mapping_tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

port-overloading

Specification	Value
Type	*object*

global

Description: global is a **JSON Block**. Please see below for *port-overloading_global*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading/global*

port-overloading-status

Description: port-overloading-status is a **JSON Block**. Please see below for *port-overloading_port-overloading-status*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status*

tcp

Description: tcp is a **JSON Block**. Please see below for *port-overloading_tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *port-overloading_udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading/udp*

port-overloading_port-overloading-status

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-overloading_udp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-overloading_udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

port-overloading_global

Specification	Value
Type	*object*

allow-different-user

Description Allow different users to overload the same port (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

unique

Description 'destination-address': Allow overloading when the destination addresses is unique; 'destination-address-and-port': Allow overloading when the destination address and port 2-tuple is unique (default);

Type: string

Supported Values: destination-address, destination-address-and-port

Default: destination-address-and-port

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-overloading_tcp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-overloading_tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

system-status

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

health-check-gateway-list

Specification	Value
Type	*list*
Block object keys	

ipv4-addr

Description Specify IPv4 Gateway

Type: string

Format: ipv4-address

Mutual Exclusion: ipv4-addr and ipv6-addr are mutually exclusive

ipv6-addr

Description Specify IPv6 Gateway

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-addr and ipv4-addr are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg

Specification	Value
Type	*object*

dns

Description: dns is a **JSON Block**. Please see below for *alg_dns*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/dns*

esp

Description: esp is a **JSON Block**. Please see below for *alg_esp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/esp*

ftp

Description: ftp is a **JSON Block**. Please see below for *alg_ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/ftp*

h323

Description: h323 is a **JSON Block**. Please see below for *alg_h323*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/h323*

mgcp

Description: mgcp is a **JSON Block**. Please see below for *alg_mgcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/mgcp*

pptp

Description: pptp is a **JSON Block**. Please see below for *alg_pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/pptp*

rtp

Description: rtp is a **JSON Block**. Please see below for *alg_rtp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/rtp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *alg_rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *alg_sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *alg_tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/tftp*

alg_ftp

Specification	Value
Type	*object*

ftp-value

Description 'disable': Disable FTP ALG for LSN;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_ftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'port-requests': PORT Requests From Client; 'eprt-requests': EPRT Requests From Client; 'lprt-requests': LPRT Requests From Client; 'pasv-replies': PASV Replies From Server; 'epsv-replies': EPSV Replies From Server; 'lpsv-replies': LPSV Replies From Server; 'port-retransmits': Port Mode Request Retransmits; 'pasv-retransmits': Passive Mode Reply Retransmits; 'port-helper-created': Port Mode Helper Created; 'pasv-helper-created': Passive Mode Helper Created; 'port-helper-freed': Port Mode Helper Freed; 'pasv-helper-freed': Passive Mode Helper Freed; 'port-helper-unused': Port Mode Helper Unused; 'pasv-helper-unused': Passive Mode Helper Unused; 'port-helper-creation-failure': Port Helper Creation Failure; 'pasv-helper-creation-failure': Passive Helper Creation Failure; 'get-conn-ext-failure': Get Conn Extension Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, port-requests, eprt-requests, lprt-requests, pasv-replies, epsv-replies, lpsv-replies, port-retransmits, pasv-retransmits, port-helper-created, pasv-helper-created, port-helper-freed, pasv-helper-freed, port-helper-unused, pasv-helper-unused, port-helper-creation-failure, pasv-helper-creation-failure, get-conn-ext-failure, smp-app-type-mismatch

alg_sip

Specification	Value
Type	*object*

rtp-stun-timeout

Description RTP/RTCP STUN timeout in minutes (Default is 5 minutes)

Type: number

Range: 2-10

Default: 5

sampling-enable

Type: List

sip-value

Description 'enable': Enable SIP ALG for LSN;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_sip_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'method-register': SIP Method REGISTER; 'method-invite': SIP Method INVITE; 'method-ack': SIP Method ACK; 'method-cancel': SIP Method CANCEL; 'method-bye': SIP Method BYE; 'method-options': SIP Method OPTIONS; 'method-prack': SIP Method PRACK; 'method-subscribe': SIP Method SUBSCRIBE; 'method-notify': SIP Method NOTIFY; 'method-publish': SIP Method PUBLISH; 'method-info': SIP Method INFO; 'method-refer': SIP Method REFER; 'method-message': SIP Method MESSAGE; 'method-update': SIP Method UPDATE; 'method-unknown': SIP Method UNKNOWN; 'parse-error': SIP Message Parse Error; 'req-uri-op-failrue': SIP Operate Request Uri Failure; 'via-hdr-op-failrue': SIP Operate Via Header Failure; 'contact-hdr-op-failrue': SIP Operate Contact Header Failure; 'from-hdr-op-failrue': SIP Operate From Header Failure; 'to-hdr-op-failrue': SIP Operate To Header Failure; 'route-hdr-op-failrue': SIP Operate Route Header Failure; 'record-route-hdr-op-failrue': SIP Operate Record-Route Header

Failure; 'content-length-hdr-op-failrue': SIP Operate Content-Length Failure; 'third-party-registration': SIP Third-Party Registration; 'conn-ext-creation-failure': SIP Create Connection Extension Failure; 'alloc-contact-port-failure': SIP Alloc Contact Port Failure; 'outside-contact-port-mismatch': SIP Outside Contact Port Mismatch NAT Port; 'inside-contact-port-mismatch': SIP Inside Contact Port Mismatch; 'third-party-sdp': SIP Third-Party SDP; 'sdp-process-candidate-failure': SIP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': SIP Operate SDP Failure; 'sdp-alloc-port-map-success': SIP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': SIP Alloc SDP Port Map Failure; 'modify-failure': SIP Message Modify Failure; 'rewrite-failure': SIP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'helper-found': SMP Helper Conn Found; 'helper-created': SMP Helper Conn Created; 'helper-deleted': SMP Helper Conn Already Deleted; 'helper-freed': SMP Helper Conn Freed; 'helper-failure': SMP Helper Failure;

Type: string

Supported Values: all, method-register, method-invite, method-ack, method-cancel, method-bye, method-options, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error, req-uri-op-failrue, via-hdr-op-failrue, contact-hdr-op-failrue, from-hdr-op-failrue, to-hdr-op-failrue, route-hdr-op-failrue, record-route-hdr-op-failrue, content-length-hdr-op-failrue, third-party-registration, conn-ext-creation-failure, alloc-contact-port-failure, outside-contact-port-mismatch, inside-contact-port-mismatch, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop, smp-conn-alloc-failure, helper-found, helper-created, helper-deleted, helper-freed, helper-failure

alg_esp

Specification	Value
Type	*object*

esp-value

Description 'enable': Enable ESP ALG for LSN; 'enable-with-ctrl': Enable ESP ALG for LSN with control session;

Type: string

Supported Values: enable, enable-with-ctrl

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_esp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'placeholder-debug': Placeholder Debug; 'nat-ip-conflict': NAT IP Conflict;

Type: string

Supported Values: all, session-created, placeholder-debug, nat-ip-conflict

alg_pptp

Specification	Value
Type	*object*

pptp-value

Description 'enable': Enable PPTP ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_pptp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'mismatched-pns-call-id': Mismatched PNS Call ID; 'gre-sessions-created': GRE Sessions Created; 'gre-sessions-freed': GRE Sessions Freed; 'no-gre-session-match': No Matching GRE Session; 'smp-sessions-created': SMP Sessions Created; 'smp-sessions-freed': SMP Sessions Freed; 'smp-session-creation-failure': SMP Session Creation Failures; 'extension-creation-failure': Extension Creation Failures; 'ha-sent': HA Info Sent; 'ha-rcv': HA Info Received; 'ha-no-mem': HA

Memory Allocation Failure; 'ha-conflict': HA Call ID Conflicts; 'ha-overwrite': HA Call ID Overwrites; 'ha-call-sent': HA Call Sent; 'ha-call-rcv': HA Call Received; 'ha-smp-conflict': HA SMP Conflicts; 'ha-smp-in-del-q': HA SMP Deleted; 'smp-app-type-mismatch': SMP ALG App Type Mismatch; 'quota-inc': Quota Incremented; 'quota-dec': Quota Decremented; 'quota-inc-not-found': Quota Not Found on Increment; 'quota-dec-not-found': Quota Not Found on Decrement; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-retransmit-wrong-control': Call Reply Retransmit Wrong Control; 'call-reply-retransmit-acquired': Call Reply Retransmit Acquired; 'call-reply-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, mismatched-pns-call-id, gre-sessions-created, gre-sessions-freed, no-gre-session-match, smp-sessions-created, smp-sessions-freed, smp-session-creation-failure, extension-creation-failure, ha-sent, ha-rcv, ha-no-mem, ha-conflict, ha-overwrite, ha-call-sent, ha-call-rcv, ha-smp-conflict, ha-smp-in-del-q, smp-app-type-mismatch, quota-inc, quota-dec, quota-inc-not-found, quota-dec-not-found, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-retransmit-wrong-control, call-reply-retransmit-acquired, call-reply-ext-alloc-failure, smp-client-call-id-mismatch, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

alg_rtsp

Specification	Value
Type	*object*

rtsp-value

Description 'enable': Enable RTSP ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_rtsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'streams-created': Streams Created; 'streams-freed': Streams Freed; 'stream-creation-failure': Stream Creation Failures; 'ports-allocated': Stream Client Ports Allocated; 'ports-freed': Stream Client Ports Freed; 'port-allocation-failure': Stream Client Port Allocation Failures; 'unknown-client-port-from-server': Server Replies With Unknown Client Ports; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'no-session-mem': Data Session Creation Failures; 'ha-sent': HA Sent; 'ha-rcv': HA RCV; 'smp-inserted': SMP Session Inserted; 'smp-removed': SMP Session Removed; 'smp-reused': SMP Session Reused; 'nat-pool-standby': New Session NAT Pool Standby; 'smp-deleted': New Session SMP Already Deleted; 'control-closed': New Session Closed; 'data-session-exists': New Session Already Exists; 'data-session-creation-failure': New Data Session Creation Failure; 'rtp-reversed': RTP Reverse Creation; 'rtcp-reversed': RTCP Reverse Creation; 'cross-cpu-sent': Cross CPU Sent; 'cross-cpu-rcv': Cross CPU Received; 'cross-cpu-no-session': Cross CPU No Session Found; 'cross-cpu-created': Cross CPU Creation; 'cross-cpu-rcv-failure': Cross CPU Receive Failure; 'data-free-smp-retry-lookup': Data Session Free SMP Retry Lookup; 'data-free-smp-not-found': Data Session Free SMP Not Found; 'ha-streams-sent': HA Streams Sent; 'ha-streams-rcv': HA Streams Received; 'ha-stream-incompatible': HA Incompatible Streams Received; 'ha-stream-exists': HA Stream Already Exists; 'ha-port-allocation-failure': HA Stream Port Allocation Failure; 'ha-data-session-sent': HA Data Session Sent; 'ha-data-session-rcv': HA Data Session Received; 'ha-data-no-smp': HA Data Session SMP Not Found; 'ha-control-closed': HA New Data Control Session Closed; 'ha-data-exists': HA New Data Session Already Exists; 'ha-extension-failure': HA Conn Extension Failure; 'ha-stream-smp-reused': HA SMP Session Reused; 'ha-stream-smp-acquire-failure': HA SMP Session Acquire Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, streams-created, streams-freed, stream-creation-failure, ports-allocated, ports-freed, port-allocation-failure, unknown-client-port-from-server, data-session-created, data-session-freed, no-session-mem, ha-sent, ha-rcv, smp-inserted, smp-removed, smp-reused, nat-pool-standby, smp-deleted, control-closed, data-session-exists, data-session-creation-failure, rtp-reversed, rtcp-reversed, cross-cpu-sent, cross-cpu-rcv, cross-cpu-no-session, cross-cpu-created, cross-cpu-rcv-failure, data-free-smp-retry-lookup, data-free-smp-not-found, ha-streams-sent, ha-streams-rcv, ha-stream-incompatible, ha-stream-exists, ha-port-allocation-failure, ha-data-session-sent, ha-data-session-rcv, ha-data-no-smp, ha-control-closed, ha-data-exists, ha-extension-failure, ha-stream-smp-reused, ha-stream-smp-acquire-failure, smp-app-type-mismatch

alg_h323

Specification	Value
Type	*object*

h323-value

Description 'enable': Enable H323 ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_h323_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'h225ras-message': H323 H225 RAS Message; 'h225cs-message': H323 H225 Call Signaling Message; 'h245ctl-message': H323 H245 Media Control Message; 'h245-tunneled': H323 H245 Tunnelled Message; 'fast-start': H323 FastStart; 'parse-error': Message Parse Error; 'message-cross-multi-packets': H323 Message Cross Multiple Packets; 'conn-ext-creation-failure': H323 Packet Rewrite Failure; 'rewrite-failure': H323 Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'h245-dynamic-addr-exceed': H323 H245 Dynamic Address Exceed;

Type: string

Supported Values: all, h225ras-message, h225cs-message, h245ctl-message, h245-tunneled, fast-start, parse-error, message-cross-multi-packets, conn-ext-creation-failure, rewrite-failure, tcp-out-of-order-drop, h245-dynamic-addr-exceed

alg_rtp

Specification	Value
Type	*object*

rtp-stun-timeout

Description RTP/RTCP STUN timeout (default: 5 minutes)}

Type: number

Range: 2-10

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_dns

Specification	Value
Type	*object*

dns-value

Description 'disable': Disable DNS ALG for LSN;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_tftp

Specification	Value
Type	*object*

sampling-enable

Type: List

tftp-value

Description 'enable': Enable TFTP ALG for LSN;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_tftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions Created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

alg_mgcp

Specification	Value
Type	*object*

mgcp-value

Description 'enable': Enable MGCP ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_mgcp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auep': MGCP AUEP; 'aucx': MGCP AUCX; 'crcx': MGCP CRCX; 'dlcx': MGCP DLCX; 'epcf': MGCP EPCF; 'mdcx': MGCP MDCX; 'ntfy': MGCP NTFY; 'rqnt': MGCP RQNT; 'rsip': MGCP RSIP; 'parse-error': MGCP Message Parse Error; 'conn-ext-creation-failure': MGCP Create Connection Extension Failure; 'third-party-sdp': MGCP Third-Party SDP; 'sdp-process-candidate-failure': MGCP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': MGCP Operate SDP Failure; 'sdp-alloc-port-map-success': MGCP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': MGCP Alloc SDP Port Map Failure; 'modify-failure': MGCP Message Modify Failure; 'rewrite-failure': MGCP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop;

Type: string

Supported Values: all, auep, aucx, crcx, dlcx, epcf, mdcx, ntfy, rqnt, rsip, parse-error, conn-ext-creation-failure, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop

inside

Specification	Value
Type	*object*

source

Description: source is a **JSON Block**. Please see below for *inside_source*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/inside/source*

inside_source

Specification	Value
Type	*object*

class-list

Description Class List (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global

Specification	Value
Type	*object*

attempt-port-preservation

Description 'disable': Don't attempt port preservation for NAT allocation;

Type: string

Supported Values: disable

enhanced-user-tracking

Description Enable enhanced user tracking and visibility (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

hairpinning

Description 'filter-none': Allow self-hairpinning (default). Warning: Only applies to UDP. TCP will use filter-self-ip-port; 'filter-self-ip': Block hairpinning to the user's own IP; 'filter-self-ip-port': Block hairpinning to the user's same IP and port combination;

Type: string

Supported Values: filter-none, filter-self-ip, filter-self-ip-port

Default: filter-none

half-close-timeout

Description Set LSN Half close timeout (Half close timeout in seconds (default not set))

Type: number

Range: 2-3000

icmp

Description: icmp is a **JSON Block**. Please see below for *global_icmp*

Type: Object

inbound-refresh

Description 'enable': Enable NAT Inbound Refresh Behavior; 'disable': Disable NAT Inbound Refresh Behavior;

Type: string

Supported Values: enable, disable

Default: enable

inbound-refresh-full-cone

Description 'enable': Enable NAT full cone refresh for inbound flows; 'disable': Disable NAT full cone refresh for inbound flows;

Type: string

Supported Values: enable, disable

Default: enable

ip-selection

Description 'random': Random (long-run uniformly distributed) NAT IP selection (default); 'round-robin': Round-robin; 'least-used-strict': Fewest NAT ports used; 'least-udp-used-strict': Fewest UDP NAT ports used; 'least-tcp-used-strict': Fewest TCP NAT ports used; 'least-reserved-strict': Fewest NAT ports reserved; 'least-udp-reserved-strict': Fewest UDP NAT ports reserved; 'least-tcp-reserved-strict': Fewest TCP NAT ports reserved; 'least-users-strict': Fewest number of users;

Type: string

Supported Values: random, round-robin, least-used-strict, least-udp-used-strict, least-tcp-used-strict, least-reserved-strict, least-udp-reserved-strict, least-tcp-reserved-strict, least-users-strict

Default: random

logging

Description: logging is a **JSON Block**. Please see below for *global_logging*

Type: Object

port-batching

Description: port-batching is a **JSON Block**. Please see below for *global_port-batching*

Type: Object

sampling-enable

Type: List

strictly-sticky-nat

Description Strictly adheres to sticky-nat (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-timeout

Description Set LSN SYN timeout (SYN idle-timeout in seconds (default: 4 seconds))

Type: number

Range: 2-30

Default: 4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global_icmp

Specification	Value
Type	*object*

send-on-port-unavailable

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered; 'disable': Disable ICMP port unavailable message (default);

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: disable

send-on-user-quota-exceeded

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered (default); 'disable': Disable ICMP quota exceeded message;

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: admin-filtered

global_logging

Specification	Value
Type	*object*

default-template

Description Bind the default NAT logging template for LSN (Bind a NAT logging template)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/logging*

partition-name

Description Select partition name for logging

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

Mutual Exclusion: partition-name and shared are mutually exclusive

Reference Object: */axapi/v3/partition*

pool

Type: List

shared

Description Select shared partition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: shared and partition-name are mutually exclusive

global_logging_pool

Specification	Value
Type	*list*
Block object keys	

pool-name

Description NAT pool

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/nat/pool*

template

Description Bind a NAT logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/logging*

global_port-batching

Specification	Value
Type	*object*

size

Description '1': Allocate 1 port at a time (default); '8': Allocate 8 ports at a time; '16': Allocate 16 ports at a time; '32': Allocate 32 ports at a time; '64': Allocate 64 ports at a time; '128': Allocate 128 ports at a time; '256': Allocate 256 ports at a time; '512': Allocate 512 ports at a time;

Type: string

Supported Values: 1, 8, 16, 32, 64, 128, 256, 512

Default: 1

tcp-time-wait-interval

Description Minutes before TCP NAT ports can be reused (default: 2)

Type: number

Range: 0-10

Default: 2

global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_tcp_allocated': Total TCP Ports Allocated; 'total_tcp_freed': Total TCP Ports Freed; 'total_udp_allocated': Total UDP Ports Allocated; 'total_udp_freed': Total UDP Ports Freed; 'total_icmp_allocated': Total ICMP Ports Allocated; 'total_icmp_freed': Total ICMP Ports Freed; 'data_session_created': Data Session Created; 'data_session_freed': Data Session Freed; 'user_quota_created': User-Quota Created; 'user_quota_put_in_del_q': User-Quota Freed; 'user_quota_failure': User-Quota Creation Failed; 'nat_port_unavailable_tcp': TCP NAT Port Unavailable; 'nat_port_unavailable_udp': UDP NAT Port Unavailable; 'nat_port_unavailable_icmp': ICMP NAT Port Unavailable; 'new_user_resource_unavailable': New User NAT Resource Unavailable; 'tcp_user_quota_exceeded': TCP User-Quota Exceeded; 'udp_user_quota_exceeded': UDP User-Quota Exceeded; 'icmp_user_quota_exceeded': ICMP User-Quota Exceeded; 'extended_quota_matched': Extended User-Quota Matched; 'extended_quota_exceeded': Extended User-Quota Exceeded; 'data_sesn_user_quota_exceeded': Data Session User-Quota Exceeded; 'data_sesn_rate_user_quota_exceeded': Conn Rate User-Quota Exceeded; 'tcp_fullcone_created': TCP Full-cone Session Created; 'tcp_fullcone_freed': TCP Full-cone Session Freed; 'udp_fullcone_created': UDP Full-cone Session Created; 'udp_fullcone_freed': UDP Full-cone Session Freed; 'fullcone_failure': Full-cone Session Creation Failed; 'hairpin': Hairpin Session Created; 'fullcone_self_hairpinning_drop': Self-Hairpinning Drop; 'endpoint_indep_map_match': Endpoint-Independent Mapping

Matched; 'endpoint_indep_filter_match': Endpoint-Independent Filtering Matched; 'inbound_filtered': Endpoint-Dependent Filtering Drop; 'eif_limit_exceeded': Endpoint-Independent Filtering Inbound Limit Exceeded; 'total_tcp_overloaded': TCP Port Overloaded; 'total_udp_overloaded': UDP Port Overloaded; 'port_overloading_smp_inserted_tcp': TCP Port Overloading Session Created; 'port_overloading_smp_inserted_udp': UDP Port Overloading Session Created; 'port_overloading_smp_free_tcp': TCP Port Overloading Session Freed; 'port_overloading_smp_free_udp': UDP Port Overloading Session Freed; 'nat_pool_unusable': NAT Pool Unusable; 'ha_nat_pool_unusable': HA NAT Pool Unusable; 'ha_nat_pool_batch_type_mismatch': HA NAT Pool Batch Type Mismatch; 'no_radius_profile_match': No RADIUS Profile Match; 'nat_ip_max_tcp_ports_allocated': NAT IP TCP Max Ports Allocated; 'nat_ip_max_udp_ports_allocated': NAT IP UDP Max Ports Allocated; 'no_class_list_match': No Class-List Match; 'lid_drop': LSN LID Drop; 'lid_pass_through': LSN LID Pass-through; 'fullcone_in_del_q': Full-cone session found in delete queue; 'fullcone_retry_lookup': Full-cone session retry look-up; 'fullcone_not_found': Full-cone session not found; 'nat_port_double_free': NAT Port Double Free; 'nat_port_chunk_freed_from_cpu': NAT Port Chunks Freed From CPU; 'nat_port_freed_from_diff_cpu': NAT Port Freed On Different CPU; 'nat_pool_deleted': NAT Pool Deleted; 'nat_esp_ip_conflicts': LSN NAT ESP IP Conflicts; 'nat_esp_no_control_sesn': LSN NAT ESP No Control Session; 'esp_user_quota_exceeded': ESP User-Quota exceeded; 'udp_alg_user_quota_exceeded': UDP ALG User-Quota exceeded; 'gre_user_quota_exceeded': GRE User-Quota exceeded; 'ha_classlist_mismatch': HA Class-list Mismatch; 'ha_user_quota_mismatch': HA User-Quota Mismatch; 'ha_fullcone_mismatch': HA Full-cone Mismatch; 'ha_port_mismatch': HA Port Mismatch; 'ha_dnat_mismatch': HA Destination NAT Config Mismatch; 'ha_nat_port_unavailable': HA NAT Port Unavailable; 'ha_unknown_nat_ip': HA Unknown NAT IP; 'ha_fullcone_failure': HA Full-cone Session Failure; 'ha_fullcone_create_race_failure': HA Full-cone Create Race Failure; 'ha_endpoint_indep_map_match': HA Endpoint-independent Matching; 'standby_class_list_drop': HA Standby Class-List drop; 'bad_tuple_nat_ip': Bad NAT IP from tuple; 'bad_smp_tuple_nat_ip': Bad NAT IP from SMP tuple; 'fullcone_inbound_nat_pool_mismatch': Full-cone Session NAT Pool Mismatch; 'fullcone_overflow_eim': Full-cone Session EIM Overflow; 'fullcone_overflow_eif': Full-cone Session EIF Overflow; 'cross_cpu_helper_created': Cross CPU Session Helper Created; 'cross_cpu_sent': Cross CPU Helper Packets Sent; 'cross_cpu_rcv': Cross CPU Helper Packets Received; 'cross_cpu_bad_l3': Cross CPU Unsupported L3; 'cross_cpu_bad_l4': Cross CPU Unsupported L4; 'cross_cpu_no_session': Cross CPU No Session Found; 'cross_cpu_helper_free': Cross CPU Helper Free; 'cross_cpu_helper_free_retry_lookup': Cross CPU Helper Free Retry Lookup; 'cross_cpu_helper_free_not_found': Cross CPU Helper Free Not Found; 'cross_cpu_helper_deleted': Cross CPU Helper Deleted; 'cross_cpu_helper_cpu_mismatch': Cross CPU Helper CPU Mismatch; 'cross_cpu_helper_nat_pool_standby': Cross CPU Helper NAT Pool Standby; 'cross_cpu_helper_double_add': Cross CPU Helper Double Add Attempt; 'mtu_exceeded': Packet Exceeded MTU; 'frag': Fragmented Packets; 'dslite_tunnel_frag': IPv4 Fragment DS-Lite Packet; 'sixrd_tunnel_frag': IPv6 Fragment IPv6-in-IPv4 Packet; 'frag_icmp': ICMP Packet Too Big Sent; 'frag_tunnel_icmp': DS-Lite ICMP Packet Too Big Sent; 'quota_ext_mem_allocated': Quota Extension Memory Allocated; 'quota_ext_mem_alloc_failure': Quota Extension Out of Memory; 'quota_ext_mem_freed': Quota Extension Memory Freed; 'quota_ext_put_in_del_q': Quota Extension Put in Delete Queue; 'port_batch_num_mismatch': Specific Port Batch Num Ports Mismatch; 'port_batch_interval_mismatch': Specific Port Batch Port Interval Mismatch; 'port_pair_alloc_bad_math': Port Pair Alloc Bad Math; 'free_port_from_quota_no_container': Free Port from Quota No Container; 'free_port_from_quota_no_port_info': Free Port From Quota No Port Info; 'static_nat_cross_cpu_helper_created': Cross CPU Helper Created for Static NAT; 'static_nat_cross_cpu_helper_deleted': Cross CPU Helper Deleted for Static NAT;

'static_nat_cross_cpu_helper_standby': Cross CPU Helper Static NAT Standby; 'static_nat_cross_cpu_helper_cpu_mismatch': Static NAT Cross CPU Helper CPU Mismatch; 'static_nat_cross_cpu_sent': Static NAT Cross CPU Helper Sent; 'static_nat_cross_cpu_rcv': Static NAT Cross CPU Helper Packets Received; 'static_nat_cross_cpu_bad_l3': Static NAT Cross CPU Unsupported L3; 'static_nat_cross_cpu_bad_l4': Static NAT Cross CPU Unsupported L4; 'static_nat_cross_cpu_no_session': Static NAT Cross CPU No Session Found; 'static_nat_cross_cpu_helper_free': Static NAT Cross CPU Helper Free; 'static_nat_cross_cpu_helper_free_retry_lookup': Static NAT Cross CPU Helper Free Retry Lookup; 'static_nat_cross_cpu_helper_free_not_found': Static NAT Cross CPU Helper Free Not Found; 'static_nat_ha_map_mismatch': Static NAT Mapping Mismatch on HA Standby; 'ip_slb_cross_cpu_sent': IP SLB Cross CPU Packets Sent; 'fullcone_force_deleted': Full-cone Session Force Deleted; 'user_quota_mem_allocated': User-Quota Memory Allocated; 'user_quota_mem_freed': User-Quota Memory Freed; 'user_quota_created_shadow': Total User-Quota Created; 'quota_marked_deleted': User-Quota Marked Deleted; 'quota_delete_not_in_bucket': User-Quota Delete Not In Bucket; 'user_quota_put_in_del_q_shadow': Total User-Quota Put In Del Q; 'tcp_out_of_state_rst_sent': Total Out of State TCP RST sent; 'tcp_out_of_state_rst_dropped': Total Out of State TCP RST dropped; 'icmp_out_of_state_uqe_admin_filtered_sent': Total User Quota Exceeded ICMP admin filtered sent; 'icmp_out_of_state_uqe_host_unreachable_sent': Total User Quota Exceeded ICMP host unreachable sent; 'icmp_out_of_state_uqe_dropped': Total User Queue Exceeded ICMP notification dropped;

Type: string

Supported Values: all, total_tcp_allocated, total_tcp_freed, total_udp_allocated, total_udp_freed, total_icmp_allocated, total_icmp_freed, data_session_created, data_session_freed, user_quota_created, user_quota_put_in_del_q, user_quota_failure, nat_port_unavailable_tcp, nat_port_unavailable_udp, nat_port_unavailable_icmp, new_user_resource_unavailable, tcp_user_quota_exceeded, udp_user_quota_exceeded, icmp_user_quota_exceeded, extended_quota_matched, extended_quota_exceeded, data_sesn_user_quota_exceeded, data_sesn_rate_user_quota_exceeded, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_failure, hairpin, full-cone_self_hairpinning_drop, endpoint_indep_map_match, endpoint_indep_filter_match, inbound_filtered, eif_limit_exceeded, total_tcp_overloaded, total_udp_overloaded, port_overloading_smp_inserted_tcp, port_overloading_smp_inserted_udp, port_overloading_smp_free_tcp, port_overloading_smp_free_udp, nat_pool_unusable, ha_nat_pool_unusable, ha_nat_pool_batch_type_mismatch, no_radius_profile_match, nat_ip_max_tcp_ports_allocated, nat_ip_max_udp_ports_allocated, no_class_list_match, lid_drop, lid_pass_through, fullcone_in_del_q, fullcone_retry_lookup, fullcone_not_found, nat_port_double_free, nat_port_chunk_freed_from_cpu, nat_port_freed_from_diff_cpu, nat_pool_deleted, nat_esp_ip_conflicts, nat_esp_no_control_sesn, esp_user_quota_exceeded, udp_alg_user_quota_exceeded, gre_user_quota_exceeded, ha_classlist_mismatch, ha_user_quota_mismatch, ha_fullcone_mismatch, ha_port_mismatch, ha_dnat_mismatch, ha_nat_port_unavailable, ha_unknown_nat_ip, ha_fullcone_failure, ha_fullcone_create_race_failure, ha_endpoint_indep_map_match, standby_class_list_drop, bad_tuple_nat_ip, bad_smp_tuple_nat_ip, fullcone_inbound_nat_pool_mismatch, fullcone_overflow_eim, fullcone_overflow_eif, cross_cpu_helper_created, cross_cpu_sent, cross_cpu_rcv, cross_cpu_bad_l3, cross_cpu_bad_l4, cross_cpu_no_session, cross_cpu_helper_free, cross_cpu_helper_free_retry_lookup, cross_cpu_helper_free_not_found, cross_cpu_helper_deleted, cross_cpu_helper_cpu_mismatch, cross_cpu_helper_nat_pool_standby, cross_cpu_helper_double_add, mtu_exceeded, frag, dslite_tunnel_frag, sixrd_tunnel_frag, frag_icmp, frag_tunnel_icmp, quota_ext_mem_allocated, quota_ext_mem_alloc_failure, quota_ext_mem_freed, quota_ext_put_in_del_q,

port_batch_num_mismatch, port_batch_interval_mismatch, port_pair_alloc_bad_math, free_port_from_quota_no_container, free_port_from_quota_no_port_info, static_nat_cross_cpu_helper_created, static_nat_cross_cpu_helper_deleted, static_nat_cross_cpu_helper_standby, static_nat_cross_cpu_helper_cpu_mismatch, static_nat_cross_cpu_sent, static_nat_cross_cpu_rcv, static_nat_cross_cpu_bad_l3, static_nat_cross_cpu_bad_l4, static_nat_cross_cpu_no_session, static_nat_cross_cpu_helper_free, static_nat_cross_cpu_helper_free_retry_lookup, static_nat_cross_cpu_helper_free_not_found, static_nat_ha_map_mismatch, ip_slb_cross_cpu_sent, fullcone_force_deleted, user_quota_mem_allocated, user_quota_mem_freed, user_quota_created_shadow, quota_marked_deleted, quota_delete_not_in_bucket, user_quota_put_in_del_q_shadow, tcp_out_of_state_rst_sent, tcp_out_of_state_rst_dropped, icmp_out_of_state_uqe_admin_filtered_sent, icmp_out_of_state_uqe_host_unreachable_sent, icmp_out_of_state_uqe_dropped

counters2

Description 'user_quota_not_found': User-Quota Not Found; 'tcp_fullcone_created_shadow': Total TCP Full-cone sessions created; 'tcp_fullcone_freed_shadow': Total TCP Full-cone sessions freed; 'udp_fullcone_created_shadow': Total UDP Full-cone sessions created; 'udp_fullcone_freed_shadow': Total UDP Full-cone sessions freed; 'udp_alg_fullcone_created': Total UDP ALG Full-cone sessions created; 'udp_alg_fullcone_freed': Total UDP ALG Full-cone sessions freed; 'fullcone_created': Total Full-cone sessions created; 'fullcone_freed': Total Full-cone sessions freed; 'data_session_created_shadow': Total Data Sessions Created; 'data_session_freed_shadow': Total Data Sessions Freed; 'data_session_user_quota_mismatch': Data Session Counter Per User Mismatch; 'extended_quota_mismatched': Extended User-Quota Mismatched; 'nat_port_unavailable_other': Other NAT Port Unavailable; 'nat_port_unavailable': Total NAT Port Unavailable; 'new_user_resource_unavailable_tcp': TCP New User NAT Resource Unavailable; 'new_user_resource_unavailable_udp': UDP New User NAT Resource Unavailable; 'new_user_resource_unavailable_icmp': ICMP New User NAT Resource Unavailable; 'new_user_resource_unavailable_other': Other New User NAT Resource Unavailable; 'total_tcp_allocated_shadow': Total TCP Ports Allocated; 'total_tcp_freed_shadow': Total TCP Ports Freed; 'total_udp_allocated_shadow': Total UDP Ports Allocated; 'total_udp_freed_shadow': Total UDP Ports Freed; 'total_icmp_allocated_shadow': Total ICMP Ports Allocated; 'total_icmp_freed_shadow': Total ICMP Ports Freed; 'udp_alg_no_quota': UDP ALG User-Quota Not Found; 'udp_alg_eim_mismatch': UDP ALG Endpoint-Independent Mapping Mismatch; 'udp_alg_no_nat_ip': UDP ALG User-Quota Unknown NAT IP; 'udp_alg_alloc_failure': UDP ALG Port Allocation Failure; 'sip_alg_no_quota': SIP ALG User-Quota Not Found; 'sip_alg_quota_inc_failure': SIP ALG User-Quota Exceeded; 'sip_alg_no_nat_ip': SIP ALG Unknown NAT IP; 'sip_alg_reuse_contact_fullcone': SIP ALG Reuse Contact Full-cone Session; 'sip_alg_contact_fullcone_mismatch': SIP ALG Contact Full-cone Session Mismatch; 'sip_alg_alloc_contact_port_failure': SIP ALG Alloc Contact NAT Port Failure; 'sip_alg_create_contact_fullcone_failure': SIP ALG Create Contact Full-cone Session Failure; 'sip_alg_release_contact_port_failure': SIP ALG Release Contact NAT Port Failure; 'sip_alg_single_rtp_fullcone': SIP ALG Single RTP Full-cone Found; 'sip_alg_single_rtcp_fullcone': SIP ALG Single RTCP Full-cone Found; 'sip_alg_rtcp_fullcone_mismatch': SIP ALG RTCP Full-cone NAT Port Mismatch; 'sip_alg_reuse_rtp_rtcp_fullcone': SIP ALG Reuse RTP/RTCP Full-cone Session; 'sip_alg_alloc_rtp_rtcp_port_failure': SIP ALG Alloc RTP/RTCP NAT Ports Failure; 'sip_alg_alloc_single_port_failure': SIP ALG Alloc Single RTP or RTCP NAT Port Failure; 'sip_alg_create_single_fullcone_failure': SIP ALG Create Single RTP or RTCP Full-cone Session Failure; 'sip_alg_create_rtp_fullcone_failure': SIP ALG Create RTP Full-cone Session Failure; 'sip_alg_create_rtcp_fullcone_failure': SIP ALG Create RTCP Full-cone Session Failure; 'sip_alg_port_pair_alloc_from_consecutive': SIP ALG Port Pair Allocated From Consec-

utive; 'sip_alg_port_pair_alloc_from_partition': SIP ALG Port Pair Allocated From Partition; 'sip_alg_port_pair_alloc_from_pool_port_batch': SIP ALG Port Pair Allocated From Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_consecutive': SIP ALG Port Pair Allocated From Quota Consecutive; 'sip_alg_port_pair_alloc_from_quota_partition': SIP ALG Port Pair Allocated From Quota Partition; 'sip_alg_port_pair_alloc_from_quota_partition_error': SIP ALG Port Pair Allocated From Quota Partition Error; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch': SIP ALG Port Pair Allocated From Quota Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag': SIP ALG Port Pair Allocated From Quota Port Batch Version 2 with Frag Free Ports; 'h323_alg_no_quota': H323 ALG User-Quota Not Found; 'h323_alg_quota_inc_failure': H323 ALG User-Quota Exceeded; 'h323_alg_no_nat_ip': H323 ALG Unknown NAT IP; 'h323_alg_reuse_fullcone': H323 ALG Reuse Full-cone Session; 'h323_alg_fullcone_mismatch': H323 ALG Full-cone Session Mismatch; 'h323_alg_alloc_port_failure': H323 ALG Alloc NAT Port Failure; 'h323_alg_create_fullcone_failure': H323 ALG Create Full-cone Session Failure; 'h323_alg_release_port_failure': H323 ALG Release NAT Port Failure; 'h323_alg_single_rtp_fullcone': H323 ALG Single RTP Full-cone Found; 'h323_alg_single_rtcp_fullcone': H323 ALG Single RTCP Full-cone Found; 'h323_alg_rtcp_fullcone_mismatch': H323 ALG RTCP Full-cone NAT Port Mismatch; 'h323_alg_reuse_rtp_rtcp_fullcone': H323 ALG Reuse RTP/RTCP Full-cone Session; 'h323_alg_alloc_rtp_rtcp_port_failure': H323 ALG Alloc RTP/RTCP NAT Ports Failure; 'h323_alg_alloc_single_port_failure': H323 ALG Alloc Single RTP or RTCP NAT Port Failure; 'h323_alg_create_single_fullcone_failure': H323 ALG Create Single RTP or RTCP Full-cone Session Failure; 'h323_alg_create_rtp_fullcone_failure': H323 ALG Create RTP Full-cone Session Failure; 'h323_alg_create_rtcp_fullcone_failure': H323 ALG Create RTCP Full-cone Session Failure; 'h323_alg_port_pair_alloc_from_consecutive': H323 ALG Port Pair Allocated From Consecutive; 'h323_alg_port_pair_alloc_from_partition': H323 ALG Port Pair Allocated From Partition; 'h323_alg_port_pair_alloc_from_pool_port_batch': H323 ALG Port Pair Allocated From Pool Port Batch; 'h323_alg_port_pair_alloc_from_quota_consecutive': H323 ALG Port Pair Allocated From Quota Consecutive; 'h323_alg_port_pair_alloc_from_quota_partition': H323 ALG Port Pair Allocated From Quota Partition; 'h323_alg_port_pair_alloc_from_quota_partition_error': H323 ALG Port Pair Allocated From Quota Partition Error; 'h323_alg_port_pair_alloc_from_quota_pool_port_batch': H323 ALG Port Pair Allocated From Quota Pool Port Batch; 'port_batch_quota_extension_alloc_failure': Port Batch Extension Alloc Failure (No memory); 'port_batch_free_quota_not_found': Port Batch Quota Not Found on Free; 'port_batch_free_port_not_found': Port Batch Port Not Found on Free; 'port_batch_free_wrong_partition': Port Batch Free Wrong Partition; 'radius_query_quota_ext_alloc_failure': RADIUS Query Container Alloc (No Memoty); 'radius_query_quota_ext_alloc_race_free': RADIUS Query Container Alloc Race Free; 'quota_extension_added': Quota Extension Added to Quota; 'quota_extension_removed': Quota Extension Removed from Quota; 'quota_extension_remove_not_found': Quota Extension Not Found on Remove; 'ha_sync_port_batch_sent': HA Port Batch Extension Sync Sent; 'ha_sync_port_batch_rcv': HA Port Batch Extension Sync Received; 'ha_send_port_batch_not_found': HA Port Batch Not Found on Sync Send; 'ha_rcv_port_not_in_port_batch': HA Port Not in Port Batch on Sync Rcv; 'bad_port_to_free': Freeing Bad Port; 'consecutive_port_free': Port Freed from Consecutive Pool; 'partition_port_free': Port Freed from Partition; 'pool_port_batch_port_free': Port Freed from Pool Port Batch; 'port_allocated_from_quota_consecutive': Port Allocated from Quota Consecutive; 'port_allocated_from_quota_partition': Port Allocated from Quota Partition; 'port_allocated_from_quota_pool_port_batch': Port Allocated from Quota Pool Port Batch; 'port_freed_from_quota_consecutive': Port Freed from Quota Consecutive; 'port_freed_from_quota_partition': Port Freed

from Quota Partition; 'port_freed_from_quota_pool_port_batch': Port Freed from Quota Pool Port Batch; 'port_batch_allocated_to_quota': Port Batch Allocated to Quota; 'port_batch_freed_from_quota': Port Batch Freed From Quota; 'specific_port_allocated_from_quota_consecutive': Specific Port Allocated from Quota Consecutive;

Type: string

Supported Values: user_quota_not_found, tcp_fullcone_created_shadow, tcp_fullcone_freed_shadow, udp_fullcone_created_shadow, udp_fullcone_freed_shadow, udp_alg_fullcone_created, udp_alg_fullcone_freed, fullcone_created, fullcone_freed, data_session_created_shadow, data_session_freed_shadow, data_session_user_quota_mismatch, extended_quota_mismatched, nat_port_unavailable_other, nat_port_unavailable, new_user_resource_unavailable_tcp, new_user_resource_unavailable_udp, new_user_resource_unavailable_icmp, new_user_resource_unavailable_other, total_tcp_allocated_shadow, total_tcp_freed_shadow, total_udp_allocated_shadow, total_udp_freed_shadow, total_icmp_allocated_shadow, total_icmp_freed_shadow, udp_alg_no_quota, udp_alg_eim_mismatch, udp_alg_no_nat_ip, udp_alg_alloc_failure, sip_alg_no_quota, sip_alg_quota_inc_failure, sip_alg_no_nat_ip, sip_alg_reuse_contact_fullcone, sip_alg_contact_fullcone_mismatch, sip_alg_alloc_contact_port_failure, sip_alg_create_contact_fullcone_failure, sip_alg_release_contact_port_failure, sip_alg_single_rtp_fullcone, sip_alg_single_rtcp_fullcone, sip_alg_rtcp_fullcone_mismatch, sip_alg_reuse_rtp_rtcp_fullcone, sip_alg_alloc_rtp_rtcp_port_failure, sip_alg_alloc_single_port_failure, sip_alg_create_single_fullcone_failure, sip_alg_create_rtp_fullcone_failure, sip_alg_create_rtcp_fullcone_failure, sip_alg_port_pair_alloc_from_consecutive, sip_alg_port_pair_alloc_from_partition, sip_alg_port_pair_alloc_from_pool_port_batch, sip_alg_port_pair_alloc_from_quota_consecutive, sip_alg_port_pair_alloc_from_quota_partition, sip_alg_port_pair_alloc_from_quota_partition_error, sip_alg_port_pair_alloc_from_quota_pool_port_batch, sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag, h323_alg_no_quota, h323_alg_quota_inc_failure, h323_alg_no_nat_ip, h323_alg_reuse_fullcone, h323_alg_fullcone_mismatch, h323_alg_alloc_port_failure, h323_alg_create_fullcone_failure, h323_alg_release_port_failure, h323_alg_single_rtp_fullcone, h323_alg_single_rtcp_fullcone, h323_alg_rtcp_fullcone_mismatch, h323_alg_reuse_rtp_rtcp_fullcone, h323_alg_alloc_rtp_rtcp_port_failure, h323_alg_alloc_single_port_failure, h323_alg_create_single_fullcone_failure, h323_alg_create_rtp_fullcone_failure, h323_alg_create_rtcp_fullcone_failure, h323_alg_port_pair_alloc_from_consecutive, h323_alg_port_pair_alloc_from_partition, h323_alg_port_pair_alloc_from_pool_port_batch, h323_alg_port_pair_alloc_from_quota_consecutive, h323_alg_port_pair_alloc_from_quota_partition, h323_alg_port_pair_alloc_from_quota_partition_error, h323_alg_port_pair_alloc_from_quota_pool_port_batch, port_batch_quota_extension_alloc_failure, port_batch_free_quota_not_found, port_batch_free_port_not_found, port_batch_free_wrong_partition, radius_query_quota_ext_alloc_failure, radius_query_quota_ext_alloc_race_free, quota_extension_added, quota_extension_removed, quota_extension_remove_not_found, ha_sync_port_batch_sent, ha_sync_port_batch_rcv, ha_send_port_batch_not_found, ha_rcv_port_not_in_port_batch, bad_port_to_free, consecutive_port_free, partition_port_free, pool_port_batch_port_free, port_allocated_from_quota_consecutive, port_allocated_from_quota_partition, port_allocated_from_quota_pool_port_batch, port_freed_from_quota_consecutive, port_freed_from_quota_partition, port_freed_from_quota_pool_port_batch, port_batch_allocated_to_quota, port_batch_freed_from_quota, specific_port_allocated_from_quota_consecutive

counters3

Description 'specific_port_allocated_from_quota_partition': Specific Port Allocated

from Quota Partition; 'specific_port_allocated_from_quota_pool_port_batch': Specific Port Allocated from Quota Pool Port Batch; 'port_batch_container_alloc_failure': Port Batch Container Alloc Out of Memory; 'port_batch_container_alloc_race_free': Port Batch Container Race Free; 'port_overloading_destination_conflict': Port Overloading Destination Conflict; 'port_overloading_out_of_memory': Port Overloading Out of Memory; 'port_overloading_assign_user': Port Overloading Port Assign User; 'port_overloading_assign_user_port_batch': Port Overloading Port Assign User Port Batch; 'port_overloading_inc': Port Overloading Port Increment; 'port_overloading_dec_on_conflict': Port Overloading Port Decrement on Conflict; 'port_overloading_dec_on_free': Port Overloading Port Decrement on Free; 'port_overloading_free_port_on_conflict': Port Overloading Free Port on Conflict; 'port_overloading_free_port_batch_on_conflict': Port Overloading Free Port Batch on Conflict; 'port_overloading_inc_overflow': Port Overloading Inc Overflow; 'port_overloading_attempt_consecutive_ports': Port Overloading on Consecutive Ports; 'port_overloading_attempt_same_partition': Port Overloading on Same Partition; 'port_overloading_attempt_diff_partition': Port Overloading on Different Partition; 'port_overloading_attempt_failed': Port Overloading Attempt Failed; 'port_overloading_conn_free_retry_lookup': Port Overloading Conn Free Retry Lookup; 'port_overloading_conn_free_not_found': Port Overloading Conn Free Not Found; 'port_overloading_smp_mem_allocated': Port Overloading SMP Session Allocated; 'port_overloading_smp_mem_freed': Port Overloading SMP Session Freed; 'port_overloading_smp_inserted': Port Overloading SMP Inserted; 'port_overloading_smp_inserted_tcp_shadow': Total Port Overloading SMP TCP Inserted; 'port_overloading_smp_inserted_udp_shadow': Total Port Overloading SMP UDP Inserted; 'port_overloading_smp_free_tcp_shadow': Total Port Overloading SMP TCP Freed; 'port_overloading_smp_free_udp_shadow': Total Port Overloading SMP UDP Freed; 'port_overloading_smp_put_in_del_q_from_conn': Port Overloading SMP Free From Conn; 'port_overloading_smp_free_dec_failure': Port Overloading SMP Free Dec Failure; 'port_overloading_smp_free_no_quota': Port Overloading SMP Free No Quota; 'port_overloading_smp_free_port': Port Overloading SMP Free Port; 'port_overloading_smp_free_port_from_quota': Port Overloading SMP Free Port From Quota; 'port_overloading_for_no_ports': Port Overloading for No Ports; 'port_overloading_for_no_ports_success': Port Overloading for No Ports Success; 'port_overloading_for_quota_exceeded': Port Overloading for Quota Exceeded; 'port_overloading_for_quota_exceeded_success': Port Overloading for Quota Exceeded Success; 'port_overloading_for_quota_exceeded_race': Port Overloading for Quota Exceeded Race; 'port_overloading_for_quota_exceeded_race_success': Port Overloading for Quota Exceeded Race Success; 'port_overloading_for_new_user': Port Overloading for New User; 'port_overloading_for_new_user_success': Port Overloading for New User Success; 'ha_port_overloading_attempt_failed': HA Port Overloading Attempt Failed; 'ha_port_overloading_for_no_ports': HA Port Overloading for No Ports; 'ha_port_overloading_for_no_ports_success': HA Port Overloading for No Ports Success; 'ha_port_overloading_for_quota_exceeded': HA Port Overloading for Quota Exceeded; 'ha_port_overloading_for_quota_exceeded_success': HA Port Overloading for Quota Exceeded Success; 'ha_port_overloading_for_quota_exceeded_race': HA Port Overloading for Quota Exceeded Race; 'ha_port_overloading_for_quota_exceeded_race_success': HA Port Overloading for Quota Exceeded Race Success; 'ha_port_overloading_for_new_user': HA Port Overloading for New User; 'ha_port_overloading_for_new_user_success': HA Port Overloading for New User Success; 'nat_pool_force_delete': NAT Pool Force Delete; 'quota_ext_too_many': Quota Ext Too Many; 'nat_pool_not_found_on_free': NAT Pool Not Found on Free; 'fullcone_ext_mem_freed': LSN Fullcone Extension Memory Freed; 'fullcone_ext_mem_allocated': LSN Fullcone Extension Memory Allocated; 'fullcone_ext_mem_alloc_failure': LSN Fullcone Extension Memory Allocate Failure; 'fullcone_ext_mem_alloc_init_faulure': LSN Fullcone Extension Initialization

Failure; 'fullcone_ext_added': LSN Fullcone Extension Added; 'fullcone_ext_too_many': LSN Fullcone Extension Too Many; 'nat_pool_attempt_adding_multiple_free_batches': Attempt Adding Multiple Free Batches to Quota; 'nat_pool_add_free_batch_failed': Add Batch to Quota Failed; 'mgcp_alg_no_quota': MGCP ALG User-Quota Not Found; 'mgcp_alg_quota_inc_failure': MGCP ALG User-Quota Exceeded; 'mgcp_alg_no_nat_ip': MGCP ALG Unknown NAT IP; 'mgcp_alg_reuse_fullcone': MGCP ALG Reuse Full-cone Session; 'mgcp_alg_fullcone_mismatch': MGCP ALG Full-cone Session Mismatch; 'mgcp_alg_alloc_port_failure': MGCP ALG Alloc NAT Port Failure; 'mgcp_alg_create_fullcone_failure': MGCP ALG Create Full-cone Session Failure; 'mgcp_alg_release_port_failure': MGCP ALG Release NAT Port Failure; 'mgcp_alg_single_rtp_fullcone': MGCP ALG Single RTP Full-cone Found; 'mgcp_alg_single_rtcp_fullcone': MGCP ALG Single RTCP Full-cone Found; 'mgcp_alg_rtcp_fullcone_mismatch': MGCP ALG RTCP Full-cone NAT Port Mismatch; 'mgcp_alg_reuse_rtp_rtcp_fullcone': MGCP ALG Reuse RTP/RTCP Full-cone Session; 'mgcp_alg_alloc_rtp_rtcp_port_failure': MGCP ALG Alloc RTP/RTCP NAT Ports Failure; 'mgcp_alg_alloc_single_port_failure': MGCP ALG Alloc Single RTP or RTCP NAT Port Failure; 'mgcp_alg_create_single_fullcone_failure': MGCP ALG Create Single RTP or RTCP Full-cone Session Failure; 'mgcp_alg_create_rtp_fullcone_failure': MGCP ALG Create RTP Full-cone Session Failure; 'mgcp_alg_create_rtcp_fullcone_failure': MGCP ALG Create RTCP Full-cone Session Failure; 'mgcp_alg_port_pair_alloc_from_consecutive': MGCP ALG Port Pair Allocated From Consecutive; 'mgcp_alg_port_pair_alloc_from_partition': MGCP ALG Port Pair Allocated From Partition; 'mgcp_alg_port_pair_alloc_from_pool_port_batch': MGCP ALG Port Pair Allocated From Pool Port Batch; 'mgcp_alg_port_pair_alloc_from_quota_consecutive': MGCP ALG Port Pair Allocated From Quota Consecutive; 'mgcp_alg_port_pair_alloc_from_quota_partition': MGCP ALG Port Pair Allocated From Quota Partition; 'mgcp_alg_port_pair_alloc_from_quota_partition_error': MGCP ALG Port Pair Allocated From Quota Partition Error; 'mgcp_alg_port_pair_alloc_from_quota_pool_port_batch': MGCP ALG Port Pair Allocated From Quota Pool Port Batch; 'user_quota_unusable_drop': User-Quota Unusable Drop; 'user_quota_unusable': User-Quota Marked Unusable; 'nat_pool_same_port_batch_udp_failed': Simultaneous Batch Allocation UDP Port Allocation Failed; 'cross_cpu_helper_created_eim': EIM Cross CPU Session Helper Created; 'cross_cpu_helper_created_eif': EIF Cross CPU Session Helper Created; 'cross_cpu_helper_created_udp': UDP Cross CPU Session Helper Created; 'cross_cpu_helper_created_tcp': TCP Cross CPU Session Helper Created; 'cross_cpu_helper_created_icmp': ICMP Cross CPU Session Helper Created; 'cross_cpu_helper_created_ip': IP Cross CPU Session Helper Created; 'cross_cpu_helper_free_not_found_ip': IP Cross CPU Helper Free Not Found; 'cross_cpu_helper_free_not_found_icmp': ICMP Cross CPU Helper Free Not Found; 'cross_cpu_helper_free_not_found_tcp': TCP Cross CPU Helper Free Not Found; 'cross_cpu_helper_free_not_found_udp': UDP Cross CPU Helper Free Not Found; 'adc_port_allocation_failed': ADC Port Allocation Failed; 'adc_port_allocation_ineligible': ADC Port Allocation Not Allowed;

Type: string

Supported Values: specific_port_allocated_from_quota_partition, specific_port_allocated_from_quota_pool_port_batch, port_batch_container_alloc_failure, port_batch_container_alloc_race_free, port_overloading_destination_conflict, port_overloading_out_of_memory, port_overloading_assign_user, port_overloading_assign_user_port_batch, port_overloading_inc, port_overloading_dec_on_conflict, port_overloading_dec_on_free, port_overloading_free_port_on_conflict, port_overloading_free_port_batch_on_conflict, port_overloading_inc_overflow, port_overloading_attempt_consecutive_ports,

port_overloading_attempt_same_partition, port_overloading_attempt_diff_partition, port_overloading_attempt_failed, port_overloading_conn_free_retry_lookup, port_overloading_conn_free_not_found, port_overloading_smp_mem_allocated, port_overloading_smp_mem_freed, port_overloading_smp_inserted, port_overloading_smp_inserted_tcp_shadow, port_overloading_smp_inserted_udp_shadow, port_overloading_smp_free_tcp_shadow, port_overloading_smp_free_udp_shadow, port_overloading_smp_put_in_del_q_from_conn, port_overloading_smp_free_dec_failure, port_overloading_smp_free_no_quota, port_overloading_smp_free_port, port_overloading_smp_free_port_from_quota, port_overloading_for_no_ports, port_overloading_for_no_ports_success, port_overloading_for_quota_exceeded, port_overloading_for_quota_exceeded_success, port_overloading_for_quota_exceeded_race, port_overloading_for_quota_exceeded_race_success, port_overloading_for_new_user, port_overloading_for_new_user_success, ha_port_overloading_attempt_failed, ha_port_overloading_for_no_ports, ha_port_overloading_for_no_ports_success, ha_port_overloading_for_quota_exceeded, ha_port_overloading_for_quota_exceeded_success, ha_port_overloading_for_quota_exceeded_race, ha_port_overloading_for_quota_exceeded_race_success, ha_port_overloading_for_new_user, ha_port_overloading_for_new_user_success, nat_pool_force_delete, quota_ext_too_many, nat_pool_not_found_on_free, fullcone_ext_mem_freed, fullcone_ext_mem_allocated, fullcone_ext_mem_alloc_failure, fullcone_ext_mem_alloc_init_faulure, fullcone_ext_added, fullcone_ext_too_many, nat_pool_attempt_adding_multiple_free_batches, nat_pool_add_free_batch_failed, mgcp_alg_no_quota, mgcp_alg_quota_inc_failure, mgcp_alg_no_nat_ip, mgcp_alg_reuse_fullcone, mgcp_alg_fullcone_mismatch, mgcp_alg_alloc_port_failure, mgcp_alg_create_fullcone_failure, mgcp_alg_release_port_failure, mgcp_alg_single_rtp_fullcone, mgcp_alg_single_rtcp_fullcone, mgcp_alg_rtcp_fullcone_mismatch, mgcp_alg_reuse_rtp_rtcp_fullcone, mgcp_alg_alloc_rtp_rtcp_port_failure, mgcp_alg_alloc_single_port_failure, mgcp_alg_create_single_fullcone_failure, mgcp_alg_create_rtp_fullcone_failure, mgcp_alg_create_rtcp_fullcone_failure, mgcp_alg_port_pair_alloc_from_consecutive, mgcp_alg_port_pair_alloc_from_partition, mgcp_alg_port_pair_alloc_from_pool_port_batch, mgcp_alg_port_pair_alloc_from_quota_consecutive, mgcp_alg_port_pair_alloc_from_quota_partition, mgcp_alg_port_pair_alloc_from_quota_partition_error, mgcp_alg_port_pair_alloc_from_quota_pool_port_batch, user_quota_unusable_drop, user_quota_unusable, nat_pool_same_port_batch_udp_failed, cross_cpu_helper_created_eim, cross_cpu_helper_created_eif, cross_cpu_helper_created_udp, cross_cpu_helper_created_tcp, cross_cpu_helper_created_icmp, cross_cpu_helper_created_ip, cross_cpu_helper_free_not_found_ip, cross_cpu_helper_free_not_found_icmp, cross_cpu_helper_free_not_found_tcp, cross_cpu_helper_free_not_found_udp, adc_port_allocation_failed, adc_port_allocation_ineligible

counters4

Description 'acl_http_domain_node_exceeded': ACL HTTP Domain Node Exceeded; 'fwd_ingress_packets_tcp': Forward Ingress Packets TCP; 'fwd_egress_packets_tcp': Forward Egress Packets TCP; 'rev_ingress_packets_tcp': Reverse Ingress Packets TCP; 'rev_egress_packets_tcp': Reverse Egress Packets TCP; 'fwd_ingress_bytes_tcp': Forward Ingress Bytes TCP; 'fwd_egress_bytes_tcp': Forward Egress Bytes TCP; 'rev_ingress_bytes_tcp': Reverse Ingress Bytes TCP; 'rev_egress_bytes_tcp': Reverse Egress Bytes TCP; 'fwd_ingress_packets_udp': Forward Ingress Packets UDP; 'fwd_egress_packets_udp': Forward Egress Packets UDP; 'rev_ingress_packets_udp': Reverse Ingress Packets UDP; 'rev_egress_packets_udp': Reverse Egress Packets UDP; 'fwd_ingress_bytes_udp': Forward Ingress Bytes UDP; 'fwd_egress_bytes_udp': Forward Egress Bytes UDP; 'rev_ingress_bytes_udp': Reverse Ingress Bytes UDP; 'rev_egress_bytes_udp': Reverse Egress Bytes UDP; 'fwd_ingress_packets_icmp': Forward Ingress Packets ICMP; 'fwd_egress_packets_icmp': Forward Egress

Packets ICMP; 'rev_ingress_packets_icmp': Reverse Ingress Packets ICMP; 'rev_egress_packets_icmp': Reverse Egress Packets ICMP; 'fwd_ingress_bytes_icmp': Forward Ingress Bytes ICMP; 'fwd_egress_bytes_icmp': Forward Egress Bytes ICMP; 'rev_ingress_bytes_icmp': Reverse Ingress Bytes ICMP; 'rev_egress_bytes_icmp': Reverse Egress Bytes ICMP; 'fwd_ingress_packets_others': Forward Ingress Packets OTHERS; 'fwd_egress_packets_others': Forward Egress Packets OTHERS; 'rev_ingress_packets_others': Reverse Ingress Packets OTHERS; 'rev_egress_packets_others': Reverse Egress Packets OTHERS; 'fwd_ingress_bytes_others': Forward Ingress Bytes OTHERS; 'fwd_egress_bytes_others': Forward Egress Bytes OTHERS; 'rev_ingress_bytes_others': Reverse Ingress Bytes OTHERS; 'rev_egress_bytes_others': Reverse Egress Bytes OTHERS; 'fwd_ingress_pkt_size_range1': Forward Ingress Packet size between 0 and 200; 'fwd_ingress_pkt_size_range2': Forward Ingress Packet size between 201 and 800; 'fwd_ingress_pkt_size_range3': Forward Ingress Packet size between 801 and 1550; 'fwd_ingress_pkt_size_range4': Forward Ingress Packet size between 1551 and 9000; 'fwd_egress_pkt_size_range1': Forward Egress Packet size between 0 and 200; 'fwd_egress_pkt_size_range2': Forward Egress Packet size between 201 and 800; 'fwd_egress_pkt_size_range3': Forward Egress Packet size between 801 and 1550; 'fwd_egress_pkt_size_range4': Forward Egress Packet size between 1551 and 9000; 'rev_ingress_pkt_size_range1': Reverse Ingress Packet size between 0 and 200; 'rev_ingress_pkt_size_range2': Reverse Ingress Packet size between 201 and 800; 'rev_ingress_pkt_size_range3': Reverse Ingress Packet size between 801 and 1550; 'rev_ingress_pkt_size_range4': Reverse Ingress Packet size between 1551 and 9000; 'rev_egress_pkt_size_range1': Reverse Egress Packet size between 0 and 200; 'rev_egress_pkt_size_range2': Reverse Egress Packet size between 201 and 800; 'rev_egress_pkt_size_range3': Reverse Egress Packet size between 801 and 1550; 'rev_egress_pkt_size_range4': Reverse Egress Packet size between 1551 and 9000;

Type: string

Supported Values: acl_http_domain_node_exceeded, fwd_ingress_packets_tcp, fwd_egress_packets_tcp, rev_ingress_packets_tcp, rev_egress_packets_tcp, fwd_ingress_bytes_tcp, fwd_egress_bytes_tcp, rev_ingress_bytes_tcp, rev_egress_bytes_tcp, fwd_ingress_packets_udp, fwd_egress_packets_udp, rev_ingress_packets_udp, rev_egress_packets_udp, fwd_ingress_bytes_udp, fwd_egress_bytes_udp, rev_ingress_bytes_udp, rev_egress_bytes_udp, fwd_ingress_packets_icmp, fwd_egress_packets_icmp, rev_ingress_packets_icmp, rev_egress_packets_icmp, fwd_ingress_bytes_icmp, fwd_egress_bytes_icmp, rev_ingress_bytes_icmp, rev_egress_bytes_icmp, fwd_ingress_packets_others, fwd_egress_packets_others, rev_ingress_packets_others, rev_egress_packets_others, fwd_ingress_bytes_others, fwd_egress_bytes_others, rev_ingress_bytes_others, rev_egress_bytes_others, fwd_ingress_pkt_size_range1, fwd_ingress_pkt_size_range2, fwd_ingress_pkt_size_range3, fwd_ingress_pkt_size_range4, fwd_egress_pkt_size_range1, fwd_egress_pkt_size_range2, fwd_egress_pkt_size_range3, fwd_egress_pkt_size_range4, rev_ingress_pkt_size_range1, rev_ingress_pkt_size_range2, rev_ingress_pkt_size_range3, rev_ingress_pkt_size_range4, rev_egress_pkt_size_range1, rev_egress_pkt_size_range2, rev_egress_pkt_size_range3, rev_egress_pkt_size_range4, port_overloading_port_tcp_inserted, port_overloading_port_udp_inserted, port_overloading_port_free_tcp, port_overloading_port_free_udp, chassis_incorrect_pu

tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *tcp_mss-clamp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/tcp/mss-clamp*

reset-on-error

Description: reset-on-error is a **JSON Block**. Please see below for *tcp_reset-on-error*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/tcp/reset-on-error*

tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: ((576 - 60 - 60))))

Type: number

Range: 0-1460

Default: 456

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'subtract': Specify the value to subtract from the TCP MSS; 'none': No TCP MSS clamping (default);

Type: string

Supported Values: fixed, subtract, none

Default: none

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: not configured)

Type: number

Range: 0-1460

mss-value

Description The max value allowed for the TCP MSS (default: not configured)},

Type: number

Range: 0-1460

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp_reset-on-error

Specification	Value
Type	*object*

outbound

Description 'disable': Disable send TCP reset on error;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

data-sessions

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

hw-accelerate

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

hw-accelerate_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'entry-create': HW Entries Created; 'entry-create-failure': HW Entry Creation Failed; 'entry-create-fail-server-down': HW Entry Creation Failed - server down; 'entry-create-fail-max-entry': HW Entry Creation Failed - max entries exceeded; 'entry-free': HW Entries Freed; 'entry-free-opp-entry': HW Entries Freed - opposite tuple entry aged-out; 'entry-free-no-hw-prog': HW Entry Freed - no HW prog; 'entry-free-no-conn': HW Entry Freed - no matched conn; 'entry-free-no-sw-entry': HW Entry Freed - no software entry; 'entry-counter': HW Entries Count; 'entry-age-out': HW Entries Aged Out; 'entry-age-out-idle': HW Entries Aged Out - idle timeout; 'entry-age-out-tcp-fin': HW Entries Aged Out - TCP FIN; 'entry-age-out-tcp-rst': HW Entries Aged Out - TCP RST; 'entry-age-out-invalid-dst': HW Entries Aged Out - invalid dst; 'entry-force-hw-invalidate': HW Entries Force HW Invalidate; 'entry-invalidate-server-down': HW Entries Invalidate due to server down; 'tcam-create': TCAM Flows Created; 'tcam-free': TCAM Flows Freed; 'tcam-counter': TCAM Flow Count;

Type: string

Supported Values: all, entry-create, entry-create-failure, entry-create-fail-server-down, entry-create-fail-max-entry, entry-free, entry-free-opp-entry, entry-free-no-hw-prog, entry-free-no-conn, entry-free-no-sw-entry, entry-counter, entry-age-out, entry-age-out-idle, entry-age-out-tcp-fin, entry-age-out-tcp-rst, entry-age-out-invalid-dst, entry-force-hw-invalidate, entry-invalidate-server-down, tcam-create, tcam-free, tcam-counter

full-cone-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-reservation-list

Specification	Value
Type	*list*
Block object keys	

inside

Description Inside User Address and Port Range (Inside User IP address)

Type: string

Format: ipv4-address

inside-port-end

Description Inside End Port

Type: number

Range: 1-65535

inside-port-start

Description Inside Start Port

Type: number

Range: 1-65535

nat

Description NAT IP address

Type: string

Format: ipv4-address

nat-port-end

Description NAT End Port

Type: number

Range: 1-65535

nat-port-start

Description NAT Start Port

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stun-timeout

Specification	Value
Type	*object*

tcp-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn/stun-timeout/tcp/{port-start}+{port-end}*

udp-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn/stun-timeout/udp/{port-start}+{port-end}*

stun-timeout_udp-list

Specification	Value
Type	*list*
Block object keys	

port-end

Description Port Range (Port Range End)

Type: number

Range: 1-65535

port-start

Description Port Range (Port Range Start)

Type: number

Range: 1-65535

timeout

Description STUN timeout in minutes (default: 2 minutes)

Type: number

Range: 0-60

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stun-timeout_tcp-list

Specification	Value
Type	*list*
Block object keys	

port-end

Description Port Range (Port Range End)

Type: number

Range: 1-65535

port-start

Description Port Range (Port Range Start)

Type: number

Range: 1-65535

timeout

Description STUN timeout in minutes (default: 2 minutes)

Type: number

Range: 0-60

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

user-quota-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

performance

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

performance_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'data-sessions-current-epoch': some help string; 'fullcone-created-current-epoch': some help string; 'user-quote-created-current-epoch': some help string; 'data-sessions-previous-epoch-first': some help string; 'fullcone-created-previous-epoch-first': some help string; 'user-quote-created-previous-epoch-first': some help string; 'data-sessions-previous-epoch-last': some help string; 'fullcone-created-previous-epoch-last': some help string; 'user-quote-created-previous-epoch-last': some help string;

Type: string

Supported Values: all, data-sessions-current-epoch, fullcone-created-current-epoch, user-quote-created-current-epoch, data-sessions-previous-epoch-first, fullcone-created-previous-epoch-first, user-quote-created-previous-epoch-first, data-sessions-previous-epoch-last, fullcone-created-previous-epoch-last, user-quote-created-previous-epoch-last

enhanced-user-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-reservation-entries

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

endpoint-independent-filtering

Specification	Value
Type	*object*

tcp

Description: tcp is a **JSON Block**. Please see below for *endpoint-independent-filtering_tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *endpoint-independent-filtering_udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp*

endpoint-independent-filtering_udp

Specification	Value
Type	*object*

port-list

Type: List

session-limit

Description Limit number of EIF sessions that can be created per port

Type: number

Range: 1-65535

Default: 65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

endpoint-independent-filtering_udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

endpoint-independent-filtering_tcp

Specification	Value
Type	*object*

port-list

Type: List

session-limit

Description Limit number of EIF sessions that can be created per port

Type: number

Range: 1-65535

Default: 65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

endpoint-independent-filtering_tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

per-instance

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.100 cgnv6 lsn alg

Change LSN ALG Settings

alg Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	alg
Element URI	/axapi/v3/cgnv6/lsn/alg
Element Attributes	alg_attributes
Partition Visibility	shared
Schema	`alg schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/lsn/alg

alg_attributes

alg attributes

dns

Description: dns is a **JSON Block**. Please see below for *dns*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/dns*

esp

Description: esp is a **JSON Block**. Please see below for *esp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/esp*

ftp

Description: ftp is a **JSON Block**. Please see below for *ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/ftp*

h323

Description: h323 is a **JSON Block**. Please see below for *h323*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/h323*

mgcp

Description: mgcp is a **JSON Block**. Please see below for *mgcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/mgcp*

pptp

Description: pptp is a **JSON Block**. Please see below for *pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/pptp*

rtp

Description: rtp is a **JSON Block**. Please see below for *rtp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/rtp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/alg/tftp*

ftp

Specification	Value
Type	*object*

ftp-value

Description 'disable': Disable FTP ALG for LSN;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'port-requests': PORT Requests From Client; 'eprt-requests': EPRT Requests From Client; 'lprt-requests': LPRT Requests From Client; 'pasv-replies': PASV Replies From Server; 'epsv-replies': EPSV Replies From Server; 'lpsv-replies': LPSV Replies From Server; 'port-retransmits': Port Mode Request Retransmits; 'pasv-retransmits': Passive Mode Reply Retransmits; 'port-helper-created': Port Mode Helper Created; 'pasv-helper-created': Passive Mode Helper Created; 'port-helper-freed': Port Mode Helper Freed; 'pasv-helper-freed': Passive Mode Helper Freed; 'port-helper-unused': Port Mode Helper Unused; 'pasv-helper-unused': Passive Mode Helper Unused; 'port-helper-creation-failure': Port Helper Creation Failure; 'pasv-helper-creation-failure': Passive Helper Creation Failure; 'get-conn-ext-failure': Get Conn Extension Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, port-requests, eprt-requests, lprt-requests, pasv-replies, epsv-replies, lpsv-replies, port-retransmits, pasv-retransmits, port-helper-created, pasv-helper-created, port-helper-freed, pasv-helper-freed, port-helper-unused, pasv-helper-unused, port-helper-creation-failure, pasv-helper-creation-failure, get-conn-ext-failure, smp-app-type-mismatch

sip

Specification	Value
Type	*object*

rtp-stun-timeout

Description RTP/RTCP STUN timeout in minutes (Default is 5 minutes)

Type: number

Range: 2-10

Default: 5

sampling-enable

Type: List

sip-value

Description 'enable': Enable SIP ALG for LSN;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sip_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'method-register': SIP Method REGISTER; 'method-invite': SIP Method INVITE; 'method-ack': SIP Method ACK; 'method-cancel': SIP Method CANCEL; 'method-bye': SIP Method BYE; 'method-options': SIP Method OPTIONS; 'method-prack': SIP Method PRACK; 'method-subscribe': SIP Method SUBSCRIBE; 'method-notify': SIP Method NOTIFY; 'method-publish': SIP Method PUBLISH; 'method-info': SIP Method INFO; 'method-refer': SIP Method REFER; 'method-message': SIP Method MESSAGE; 'method-update': SIP Method UPDATE; 'method-unknown': SIP Method UNKNOWN; 'parse-error': SIP Message Parse Error; 'req-uri-op-failrue': SIP Operate Request Uri Failure; 'via-hdr-op-failrue': SIP Operate Via Header Failure; 'contact-hdr-op-failrue': SIP Operate Contact Header Failure; 'from-hdr-op-failrue': SIP Operate From Header Failure; 'to-hdr-op-failrue': SIP Operate To Header Failure; 'route-hdr-op-failrue': SIP Operate Route Header Failure; 'record-route-hdr-op-failrue': SIP Operate Record-Route Header Failure; 'content-length-hdr-op-failrue': SIP Operate Content-Length Failure; 'third-party-registration': SIP Third-Party Registration; 'conn-ext-creation-failure': SIP Create Connection Extension Failure; 'alloc-contact-port-failure': SIP Alloc Contact Port Failure; 'outside-contact-port-mismatch': SIP Outside Contact Port Mismatch NAT Port; 'inside-contact-port-mismatch': SIP Inside Contact Port Mismatch; 'third-party-sdp': SIP Third-Party SDP; 'sdp-process-candidate-failure': SIP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': SIP Operate SDP Failure; 'sdp-alloc-port-map-success': SIP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': SIP Alloc SDP Port Map Failure; 'modify-failure': SIP Message Modify Failure; 'rewrite-failure': SIP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'helper-found': SMP Helper Conn Found; 'helper-created': SMP Helper Conn Created; 'helper-deleted': SMP Helper Conn Already Deleted; 'helper-freed': SMP Helper Conn Freed; 'helper-failure': SMP Helper Failure;

Type: string

Supported Values: all, method-register, method-invite, method-ack, method-cancel, method-bye, method-options, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error,

req-uri-op-failrue, via-hdr-op-failrue, contact-hdr-op-failrue, from-hdr-op-failrue, to-hdr-op-failrue, route-hdr-op-failrue, record-route-hdr-op-failrue, content-length-hdr-op-failrue, third-party-registration, conn-ext-creation-failure, alloc-contact-port-failure, outside-contact-port-mismatch, inside-contact-port-mismatch, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop, smp-conn-alloc-failure, helper-found, helper-created, helper-deleted, helper-freed, helper-failure

esp

Specification	Value
Type	*object*

esp-value

Description 'enable': Enable ESP ALG for LSN; 'enable-with-ctrl': Enable ESP ALG for LSN with control session;

Type: string

Supported Values: enable, enable-with-ctrl

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

esp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'placeholder-debug': Placeholder Debug; 'nat-ip-conflict': NAT IP Conflict;

Type: string

Supported Values: all, session-created, placeholder-debug, nat-ip-conflict

pptp

Specification	Value
Type	*object*

pptp-value

Description 'enable': Enable PPTP ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pptp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'mismatched-pns-call-id': Mismatched PNS Call ID; 'gre-sessions-created': GRE Sessions Created; 'gre-sessions-freed': GRE Sessions Freed; 'no-gre-session-match': No Matching GRE Session; 'smp-sessions-created': SMP Sessions Created; 'smp-sessions-freed': SMP Sessions Freed; 'smp-session-creation-failure': SMP Session Creation Failures; 'extension-creation-failure': Extension Creation Failures; 'ha-sent': HA Info Sent; 'ha-rcv': HA Info Received; 'ha-no-mem': HA Memory Allocation Failure; 'ha-conflict': HA Call ID Conflicts; 'ha-overwrite': HA Call ID Overwrites; 'ha-call-sent': HA Call Sent; 'ha-call-rcv': HA Call Received; 'ha-smp-conflict': HA SMP Conflicts; 'ha-smp-in-del-q': HA SMP Deleted; 'smp-app-type-mismatch': SMP ALG App Type Mismatch; 'quota-inc': Quota Incremented; 'quota-dec': Quota Decremented; 'quota-inc-not-found': Quota Not Found on Increment; 'quota-dec-not-found': Quota Not Found on Decrement; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-retransmit-wrong-control': Call Reply Retransmit Wrong Control; 'call-reply-retransmit-acquired': Call Reply Retransmit Acquired; 'call-reply-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No

Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, mismatched-pns-call-id, gre-sessions-created, gre-sessions-freed, no-gre-session-match, smp-sessions-created, smp-sessions-freed, smp-session-creation-failure, extension-creation-failure, ha-sent, ha-rcv, ha-no-mem, ha-conflict, ha-overwrite, ha-call-sent, ha-call-rcv, ha-smp-conflict, ha-smp-in-del-q, smp-app-type-mismatch, quota-inc, quota-dec, quota-inc-not-found, quota-dec-not-found, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-retransmit-wrong-control, call-reply-retransmit-acquired, call-reply-ext-alloc-failure, smp-client-call-id-mismatch, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

rtsp

Specification	Value
Type	*object*

rtsp-value

Description 'enable': Enable RTSP ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rtsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'streams-created': Streams Created; 'streams-freed': Streams Freed; 'stream-creation-failure': Stream Creation Failures; 'ports-allocated': Stream Client Ports Allocated; 'ports-freed': Stream Client Ports Freed; 'port-allocation-failure': Stream Client Port Allocation Failures; 'unknown-client-port-from-server': Server Replies With Unknown Client Ports; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'no-session-mem': Data Session Creation Failures; 'ha-sent': HA Sent; 'ha-rcv': HA RCV; 'smp-inserted': SMP Session Inserted; 'smp-removed': SMP Session Removed; 'smp-reused': SMP Session Reused; 'nat-pool-standby': New Session NAT Pool Standby; 'smp-deleted': New Session SMP Already Deleted; 'control-closed': New Session Closed; 'data-session-exists': New Session Already Exists; 'data-session-creation-failure': New Data Session Creation Failure; 'rtp-reversed': RTP Reverse Creation; 'rtcp-reversed': RTCP Reverse Creation; 'cross-cpu-sent': Cross CPU Sent; 'cross-cpu-rcv': Cross CPU Received; 'cross-cpu-no-session': Cross CPU No Session Found; 'cross-cpu-created': Cross CPU Creation; 'cross-cpu-rcv-failure': Cross CPU Receive Failure; 'data-free-smp-retry-lookup': Data Session Free SMP Retry Lookup; 'data-free-smp-not-found': Data Session Free SMP Not Found; 'ha-streams-sent': HA Streams Sent; 'ha-streams-rcv': HA Streams Received; 'ha-stream-incompatible': HA Incompatible Streams Received; 'ha-stream-exists': HA Stream Already Exists; 'ha-port-allocation-failure': HA Stream Port Allocation Failure; 'ha-data-session-sent': HA Data Session Sent; 'ha-data-session-rcv': HA Data Session Received; 'ha-data-no-smp': HA Data Session SMP Not Found; 'ha-control-closed': HA New Data Control Session Closed; 'ha-data-exists': HA New Data Session Already Exists; 'ha-extension-failure': HA Conn Extension Failure; 'ha-stream-smp-reused': HA SMP Session Reused; 'ha-stream-smp-acquire-failure': HA SMP Session Acquire Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, streams-created, streams-freed, stream-creation-failure, ports-allocated, ports-freed, port-allocation-failure, unknown-client-port-from-server, data-session-created, data-session-freed, no-session-mem, ha-sent, ha-rcv, smp-inserted, smp-removed, smp-reused, nat-pool-standby, smp-deleted, control-closed, data-session-exists, data-session-creation-failure, rtp-reversed, rtcp-reversed, cross-cpu-sent, cross-cpu-rcv, cross-cpu-no-session, cross-cpu-created, cross-cpu-rcv-failure, data-free-smp-retry-lookup, data-free-smp-not-found, ha-streams-sent, ha-streams-rcv, ha-stream-incompatible, ha-stream-exists, ha-port-allocation-failure, ha-data-session-sent, ha-data-session-rcv, ha-data-no-smp, ha-control-closed, ha-data-exists, ha-extension-failure, ha-stream-smp-reused, ha-stream-smp-acquire-failure, smp-app-type-mismatch

h323

Specification	Value
Type	*object*

h323-value

Description 'enable': Enable H323 ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

h323_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'h225ras-message': H323 H225 RAS Message; 'h225cs-message': H323 H225 Call Signaling Message; 'h245ctl-message': H323 H245 Media Control Message; 'h245-tunneled': H323 H245 Tunnelled Message; 'fast-start': H323 FastStart; 'parse-error': Message Parse Error; 'message-cross-multi-packets': H323 Message Cross Multiple Packets; 'conn-ext-creation-failure': H323 Packet Rewrite Failure; 'rewrite-failure': H323 Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'h245-dynamic-addr-exceed': H323 H245 Dynamic Address Exceed;

Type: string

Supported Values: all, h225ras-message, h225cs-message, h245ctl-message, h245-tunneled, fast-start, parse-error, message-cross-multi-packets, conn-ext-creation-failure, rewrite-failure, tcp-out-of-order-drop, h245-dynamic-addr-exceed

rtp

Specification	Value
Type	*object*

rtp-stun-timeout

Description RTP/RTCP STUN timeout (default: 5 minutes)}

Type: number

Range: 2-10

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns

Specification	Value
Type	*object*

dns-value

Description 'disable': Disable DNS ALG for LSN;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tftp

Specification	Value
Type	*object*

sampling-enable

Type: List

tftp-value

Description 'enable': Enable TFTP ALG for LSN;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions Created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

mgcp

Specification	Value
Type	*object*

mgcp-value

Description 'enable': Enable MGCP ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mgcp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auep': MGCP AUEP; 'aucx': MGCP AUCX; 'crcx': MGCP CRCX; 'dlcx': MGCP DLCX; 'epcf': MGCP EPCF; 'mdcx': MGCP MDCX; 'ntfy': MGCP NTFY; 'rqnt': MGCP RQNT; 'rsip': MGCP RSIP; 'parse-error': MGCP Message Parse Error; 'conn-ext-creation-failure': MGCP Create Connection Extension Failure; 'third-party-sdp': MGCP Third-Party SDP; 'sdp-process-candidate-failure': MGCP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': MGCP Operate SDP Failure; 'sdp-alloc-port-map-success': MGCP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': MGCP Alloc SDP Port Map Failure; 'modify-failure': MGCP Message Modify Failure; 'rewrite-failure': MGCP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop;

Type: string

Supported Values: all, auep, aucx, crcx, dlcx, epcf, mdcx, ntfy, rqnt, rsip, parse-error, conn-ext-creation-failure, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop

2.26.101 cgnv6 lsn alg dns

Change LSN DNS ALG Settings

dns Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dns
Element URI	/axapi/v3/cgnv6/lsn/alg/dns
Element Attributes	dns_attributes
Partition Visibility	shared
Schema	`dns schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/dns

dns attributes

```
POST /axapi/v3/cgnv6/lsn/alg/dns
Payload:
{
    "dns": {
        "dns-value": "disable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/dns

dns attributes

```
GET /axapi/v3/cgnv6/lsn/alg/dns
Reponse:
{
    "dns": {
        "dns-value": "disable",
        "uuid": "c5ed00da-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/alg/dns"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/dns

dns attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/dns

dns attributes

```
PUT /axapi/v3/cgnv6/lsn/alg/dns
Payload:
{
    "dns": {
        "dns-value": "disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/dns

dns attributes

```
DELETE /axapi/v3/cgnv6/lsn/alg/dns
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

dns attributes

dns-value

Description 'disable': Disable DNS ALG for LSN;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.102 cgnv6 lsn alg esp

Change LSN ESP ALG Settings

esp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	esp
Element URI	/axapi/v3/cgnv6/lsn/alg/esp
Element Attributes	esp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn/alg/esp/stats
Schema	`esp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/esp

esp attributes

```
POST /axapi/v3/cgnv6/lsn/alg/esp
Payload:
{
    "esp": {
        "esp-value": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/esp

esp attributes

```
GET /axapi/v3/cgnv6/lsn/alg/esp
Reponse:
{
    "esp": {
        "esp-value": "enable",
        "uuid": "c5ed017a-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/alg/esp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/esp

esp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/esp

esp attributes

```
PUT /axapi/v3/cgnv6/lsn/alg/esp
Payload:
{
    "esp": {
        "esp-value": "enable-with-ctrl"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/esp

esp attributes

```
DELETE /axapi/v3/cgnv6/lsn/alg/esp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

esp attributes

esp-value

Description 'enable': Enable ESP ALG for LSN; 'enable-with-ctrl': Enable ESP ALG for LSN with control session;

Type: string

Supported Values: enable, enable-with-ctrl

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'placeholder-debug': Placeholder Debug; 'nat-ip-conflict': NAT IP Conflict;

Type: string

Supported Values: all, session-created, placeholder-debug, nat-ip-conflict

2.26.103 cgnv6 lsn alg esp stats

Statistics for the object esp

esp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	esp
Element URI	/axapi/v3/cgnv6/lsn/alg/esp/stats
Element Attributes	esp_attributes
Partition Visibility	None
Schema	`esp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/esp/stats

esp attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/esp/stats

esp attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/esp/stats

esp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/esp/stats

esp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/esp/stats

esp attributes

esp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

nat-ip-conflict

Description NAT IP Conflict

Type: number

Format: counter

session-created

Description ESP Sessions Created

Type: number

Format: counter

2.26.104 cgnv6 lsn alg ftp

Change LSN FTP ALG Settings

ftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ftp
Element URI	/axapi/v3/cgnv6/lsn/alg/ftp
Element Attributes	ftp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn/alg/ftp/stats
Schema	`ftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/ftp

ftp attributes

```
POST /axapi/v3/cgnv6/lsn/alg/ftp
Payload:
{
    "ftp": {
        "ftp-value": "disable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/ftp

ftp attributes

```
GET /axapi/v3/cgnv6/lsn/alg/ftp
Reponse:
{
    "ftp": {
        "ftp-value": "disable",
        "uuid": "c5ed021a-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/alg/ftp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/ftp

ftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/ftp

ftp attributes

```
PUT /axapi/v3/cgnv6/lsn/alg/ftp
Payload:
{
    "ftp": {
        "ftp-value": "disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/ftp

ftp attributes

```
DELETE /axapi/v3/cgnv6/lsn/alg/ftp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ftp attributes

ftp-value

Description 'disable': Disable FTP ALG for LSN;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'port-requests': PORT Requests From Client; 'eprt-requests': EPRT Requests From Client; 'lprt-requests': LPRT Requests From Client; 'pasv-replies': PASV Replies From Server; 'epsv-replies': EPSV Replies From Server; 'lpsv-replies': LPSV Replies From Server; 'port-retransmits': Port Mode Request Retransmits; 'pasv-retransmits': Passive Mode Reply Retransmits; 'port-helper-created': Port Mode Helper Created; 'pasv-helper-created': Passive Mode Helper Created; 'port-helper-freed': Port Mode Helper Freed; 'pasv-helper-freed': Passive Mode Helper Freed; 'port-helper-unused': Port Mode Helper Unused; 'pasv-helper-unused': Passive Mode Helper Unused; 'port-helper-creation-failure': Port Helper Creation Failure; 'pasv-helper-creation-failure': Passive Helper Creation Failure; 'get-conn-ext-failure': Get Conn Extension Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, port-requests, eprt-requests, lprt-requests, pasv-replies, epsv-replies, lpsv-replies, port-retransmits, pasv-retransmits, port-helper-created, pasv-helper-created, port-helper-freed, pasv-helper-freed, port-helper-unused, pasv-helper-unused, port-helper-creation-failure, pasv-helper-creation-failure, get-conn-ext-failure, smp-app-type-mismatch

2.26.105 cgnv6 lsn alg ftp stats

Statistics for the object ftp

ftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ftp
Element URI	/axapi/v3/cgnv6/lsn/alg/ftp/stats
Element Attributes	ftp_attributes
Partition Visibility	None
Schema	`ftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/ftp/stats

ftp attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/ftp/stats

ftp attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/ftp/stats

ftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/ftp/stats

ftp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/ftp/stats

ftp attributes

ftp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

eprt-requests

Description EPRT Requests From Client

Type: number

Format: counter

epsv-replies

Description EPSV Replies From Server

Type: number

Format: counter

lprt-requests

Description LPRT Requests From Client

Type: number

Format: counter

lpsv-replies

Description LPSV Replies From Server

Type: number

Format: counter

pasv-replies

Description PASV Replies From Server

Type: number

Format: counter

port-requests

Description PORT Requests From Client

Type: number

Format: counter

2.26.106 cgnv6 lsn alg h323

Change LSN H323 ALG Settings

h323 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	h323
Element URI	/axapi/v3/cgnv6/lsn/alg/h323
Element Attributes	h323_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn/alg/h323/stats
Schema	`h323 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/h323

h323 attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/h323

h323 attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/h323

h323 attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/h323

h323 attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/h323

h323 attributes

h323 attributes

h323-value

Description 'enable': Enable H323 ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'h225ras-message': H323 H225 RAS Message; 'h225cs-message': H323 H225 Call Signaling Message; 'h245ctl-message': H323 H245 Media Control Message; 'h245-tunneled': H323 H245 Tunnelled Message; 'fast-start': H323 FastStart; 'parse-error': Message Parse Error; 'message-cross-multi-packets': H323 Message Cross Multiple Packets; 'conn-ext-creation-failure': H323 Packet Rewrite Failure; 'rewrite-failure': H323 Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'h245-dynamic-addr-exceed': H323 H245 Dynamic Address Exceed;

Type: string

Supported Values: all, h225ras-message, h225cs-message, h245ctl-message, h245-tunneled, fast-start, parse-error, message-cross-multi-packets, conn-ext-creation-failure, rewrite-failure, tcp-out-of-order-drop, h245-dynamic-addr-exceed

2.26.107 cgnv6 lsn alg h323 stats

Statistics for the object h323

h323 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	h323
Element URI	/axapi/v3/cgnv6/lsn/alg/h323/stats
Element Attributes	h323_attributes
Partition Visibility	None
Schema	`h323 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/h323/stats

h323 attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/h323/stats

h323 attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/h323/stats

h323 attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/h323/stats

h323 attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/h323/stats

h323 attributes

h323 attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

fast-start

Description H323 FastStart

Type: number

Format: counter

h225cs-message

Description H323 H225 Call Signaling Message

Type: number

Format: counter

h225ras-message

Description H323 H225 RAS Message

Type: number

Format: counter

h245-tunneled

Description H323 H245 Tunnelled Message

Type: number

Format: counter

h245ctl-message

Description H323 H245 Media Control Message

Type: number

Format: counter

parse-error

Description Message Parse Error

Type: number

Format: counter

tcp-out-of-order-drop

Description TCP Out-of-Order Drop

Type: number

Format: counter

2.26.108 cgnv6 lsn alg mgcp

Change LSN MGCP ALG Settings

mgcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	mgcp
Element URI	/axapi/v3/cgnv6/lsn/alg/mgcp
Element Attributes	mgcp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn/alg/mgcp/stats
Schema	`mgcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/mgcp

mgcp attributes

```
POST /axapi/v3/cgnv6/lsn/alg/mgcp
Payload:
{
    "mgcp": {
        "mgcp-value": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/mgcp

mgcp attributes

```
GET /axapi/v3/cgnv6/lsn/alg/mgcp
Reponse:
{
    "mgcp": {
        "mgcp-value": "enable",
        "uuid": "c5ed0e36-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/alg/mgcp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/mgcp

mgcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/mgcp

mgcp attributes

```
PUT /axapi/v3/cgnv6/lsn/alg/mgcp
Payload:
{
    "mgcp": {
        "mgcp-value": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/mgcp

mgcp attributes

```
DELETE /axapi/v3/cgnv6/lsn/alg/mgcp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

mgcp attributes

mgcp-value

Description 'enable': Enable MGCP ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'auep': MGCP AUEP; 'aucx': MGCP AUCX; 'crcx': MGCP CRCX; 'dlcx': MGCP DLCX; 'epcf': MGCP EPCF; 'mdcx': MGCP MDCX; 'ntfy': MGCP NTFY; 'rqnt': MGCP RQNT; 'rsip': MGCP RSIP; 'parse-error': MGCP Message Parse Error; 'conn-ext-creation-failure': MGCP Create Connection Extension Failure; 'third-party-sdp': MGCP Third-Party SDP; 'sdp-process-candidate-failure': MGCP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': MGCP Operate SDP Failure; 'sdp-alloc-port-map-success': MGCP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': MGCP Alloc SDP Port Map Failure; 'modify-failure': MGCP Message Modify Failure; 'rewrite-failure': MGCP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop;

Type: string

Supported Values: all, auep, aucx, crcx, dlcx, epcf, mdcx, ntfy, rqnt, rsip, parse-error, conn-ext-creation-failure, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop

2.26.109 cgnv6 lsn alg mgcp stats

Statistics for the object mgcp

mgcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	mgcp
Element URI	/axapi/v3/cgnv6/lsn/alg/mgcp/stats
Element Attributes	mgcp_attributes
Partition Visibility	None
Schema	`mgcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/mgcp/stats

mgcp attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/mgcp/stats

mgcp attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/mgcp/stats

mgcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/mgcp/stats

mgcp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/mgcp/stats

mgcp attributes

mgcp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

aucx

Description MGCP AUCX

Type: number

Format: counter

auep

Description MGCP AUEP

Type: number

Format: counter

crcx

Description MGCP CRCX

Type: number

Format: counter

dlcx

Description MGCP DLCX

Type: number

Format: counter

epcf

Description MGCP EPCF

Type: number

Format: counter

mdcx

Description MGCP MDCX

Type: number

Format: counter

ntfy

Description MGCP NTFY

Type: number

Format: counter

parse-error

Description MGCP Message Parse Error

Type: number

Format: counter

rqnt

Description MGCP RQNT

Type: number

Format: counter

rsip

Description MGCP RSIP

Type: number

Format: counter

tcp-out-of-order-drop

Description TCP Out-of-Order Drop

Type: number

Format: counter

2.26.110 cgnv6 lsn alg pptp

Change LSN PPTP ALG Settings

pptp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pptp
Element URI	/axapi/v3/cgnv6/lsn/alg/pptp
Element Attributes	pptp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn/alg/pptp/stats
Schema	`pptp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/pptp

pptp attributes

```
POST /axapi/v3/cgnv6/lsn/alg/pptp
Payload:
{
    "pptp": {
        "pptp-value": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/pptp

pptp attributes

```
GET /axapi/v3/cgnv6/lsn/alg/pptp
Reponse:
{
    "pptp": {
        "pptp-value": "enable",
        "uuid": "c5ed02b0-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/alg/pptp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/pptp

pptp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/pptp

pptp attributes

```
PUT /axapi/v3/cgnv6/lsn/alg/pptp
Payload:
{
    "pptp": {
        "pptp-value": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/pptp

pptp attributes

```
DELETE /axapi/v3/cgnv6/lsn/alg/pptp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

pptp attributes

pptp-value

Description 'enable': Enable PPTP ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'mismatched-pns-call-id': Mismatched PNS Call ID; 'gre-sessions-created': GRE Sessions Created; 'gre-sessions-freed': GRE Sessions Freed; 'no-gre-session-match': No Matching GRE Session; 'smp-sessions-created': SMP Sessions Created; 'smp-sessions-freed': SMP Sessions Freed; 'smp-session-creation-failure': SMP Session Creation Failures; 'extension-creation-failure': Extension Creation Failures; 'ha-sent': HA Info Sent; 'ha-rcv': HA Info Received; 'ha-no-mem': HA Memory Allocation Failure; 'ha-conflict': HA Call ID Conflicts; 'ha-overwrite': HA Call ID Overwrites; 'ha-call-sent': HA Call Sent; 'ha-call-rcv': HA Call Received; 'ha-smp-conflict': HA SMP Conflicts; 'ha-smp-in-del-q': HA SMP Deleted; 'smp-app-type-mismatch': SMP ALG App Type Mismatch; 'quota-inc': Quota Incremented; 'quota-dec': Quota Decremented; 'quota-inc-not-found': Quota Not Found on Increment; 'quota-dec-not-found': Quota Not Found on Decrement; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-retransmit-wrong-control': Call Reply Retransmit Wrong Control; 'call-reply-retransmit-acquired': Call Reply Retransmit Acquired; 'call-reply-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, mismatched-pns-call-id, gre-sessions-created, gre-sessions-freed, no-gre-session-match, smp-sessions-created, smp-sessions-freed, smp-session-creation-failure, extension-creation-failure, ha-sent, ha-rcv, ha-no-mem, ha-conflict, ha-overwrite, ha-call-sent, ha-call-rcv, ha-smp-conflict, ha-smp-in-del-q, smp-app-type-mismatch, quota-inc, quota-dec, quota-inc-not-found, quota-dec-not-found, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-retransmit-wrong-control, call-reply-retransmit-acquired, call-reply-ext-alloc-failure, smp-client-call-id-mismatch, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

2.26.111 cgnv6 lsn alg pptp stats

Statistics for the object pptp

pptp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pptp
Element URI	/axapi/v3/cgnv6/lsn/alg/pptp/stats
Element Attributes	pptp_attributes
Partition Visibility	None
Schema	`pptp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/pptp/stats

pptp attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/pptp/stats

pptp attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/pptp/stats

pptp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/pptp/stats

pptp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/pptp/stats

pptp attributes

pptp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

call-reply-pns-call-id-mismatch

Description Call ID Mismatch on Call Reply

Type: number

Format: counter

call-req-pns-call-id-mismatch

Description Call ID Mismatch on Call Request

Type: number

Format: counter

calls-established

Description Calls Established

Type: number

Format: counter

gre-sessions-created

Description GRE Sessions Created

Type: number

Format: counter

gre-sessions-freed

Description GRE Sessions Freed

Type: number

Format: counter

mismatched-pns-call-id

Description Mismatched PNS Call ID

Type: number

Format: counter

no-gre-session-match

Description No Matching GRE Session

Type: number

Format: counter

2.26.112 cgnv6 lsn alg rtp

RTP

rtp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rtp
Element URI	/axapi/v3/cgnv6/lsn/alg/rtp
Element Attributes	rtp_attributes
Partition Visibility	shared
Schema	`rtp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/rtp

rtp attributes

```
POST /axapi/v3/cgnv6/lsn/alg/rtp
Payload:
{
    "rtp": {
        "rtp-stun-timeout": 2
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/rtp

rtp attributes

```
GET /axapi/v3/cgnv6/lsn/alg/rtp
Reponse:
{
    "rtp": {
        "rtp-stun-timeout": 2,
        "uuid": "c5ed0c88-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/alg/rtp"
```

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```
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/rtp

rtp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/rtp

rtp attributes

```
PUT /axapi/v3/cgnv6/lsn/alg/rtp
Payload:
{
    "rtp": {
        "rtp-stun-timeout": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/rtp

rtp attributes

```
DELETE /axapi/v3/cgnv6/lsn/alg/rtp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

rtp attributes

rtp-stun-timeout

Description RTP/RTCP STUN timeout (default: 5 minutes)}

Type: number

Range: 2-10

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.113 cgnv6 lsn alg rtsp

Change LSN RTSP ALG Settings

rtsp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rtsp
Element URI	/axapi/v3/cgnv6/lsn/alg/rtsp
Element Attributes	rtsp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn/alg/rtsp/stats
Schema	`rtsp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/rtsp

rtsp attributes

```
POST /axapi/v3/cgnv6/lsn/alg/rtsp
Payload:
{
    "rtsp": {
        "rtsp-value": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/rtsp

rtsp attributes

```
GET /axapi/v3/cgnv6/lsn/alg/rtsp
Reponse:
{
```

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```
    "rtsp": {
        "rtsp-value": "enable",
        "uuid": "c5ed035a-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/alg/rtsp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/rtsp

rtsp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/rtsp

rtsp attributes

```
PUT /axapi/v3/cgnv6/lsn/alg/rtsp
Payload:
{
    "rtsp": {
        "rtsp-value": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/rtsp

rtsp attributes

```
DELETE /axapi/v3/cgnv6/lsn/alg/rtsp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

rtsp attributes

rtsp-value

Description 'enable': Enable RTSP ALG for LSN;

Type: string

Supported Values: enable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'streams-created': Streams Created; 'streams-freed': Streams Freed; 'stream-creation-failure': Stream Creation Failures; 'ports-allocated': Stream Client Ports Allocated; 'ports-freed': Stream Client Ports Freed; 'port-allocation-failure': Stream Client Port Allocation Failures; 'unknown-client-port-from-server': Server Replies With Unknown Client Ports; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'no-session-mem': Data Session Creation Failures; 'ha-sent': HA Sent; 'ha-rcv': HA RCV; 'smp-inserted': SMP Session Inserted; 'smp-removed': SMP Session Removed; 'smp-reused': SMP Session Reused; 'nat-pool-standby': New Session NAT Pool Standby; 'smp-deleted': New Session SMP Already Deleted; 'control-closed': New Session Closed; 'data-session-exists': New Session Already Exists; 'data-session-creation-failure': New Data Session Creation Failure; 'rtp-reversed': RTP Reverse Creation; 'rtcp-reversed': RTCP Reverse Creation; 'cross-cpu-sent': Cross CPU Sent; 'cross-cpu-rcv': Cross CPU Received; 'cross-cpu-no-session': Cross CPU No Session Found; 'cross-cpu-created': Cross CPU Creation; 'cross-cpu-rcv-failure': Cross CPU Receive Failure; 'data-free-smp-retry-lookup': Data Session Free SMP Retry Lookup; 'data-free-smp-not-found': Data Session Free SMP Not Found; 'ha-streams-sent': HA Streams Sent; 'ha-streams-rcv': HA Streams Received; 'ha-stream-incompatible': HA Incompatible Streams Received; 'ha-stream-exists': HA Stream Already Exists; 'ha-port-allocation-failure': HA Stream Port Allocation Failure; 'ha-data-session-sent': HA Data Session Sent; 'ha-data-session-rcv': HA Data Session Received; 'ha-data-no-smp': HA Data Session SMP Not Found; 'ha-control-closed': HA New Data Control Session Closed; 'ha-data-exists': HA New Data Session Already Exists; 'ha-extension-failure': HA Conn Extension Failure; 'ha-stream-smp-reused': HA SMP Session Reused; 'ha-stream-smp-acquire-failure': HA SMP Session Acquire Failure; 'smp-app-type-mismatch': SMP ALG App Type Mismatch;

Type: string

Supported Values: all, streams-created, streams-freed, stream-creation-failure, ports-allocated, ports-freed, port-allocation-failure, unknown-client-port-from-server, data-session-created, data-session-freed, no-session-mem, ha-sent, ha-rcv, smp-inserted, smp-removed, smp-reused, nat-pool-standby, smp-deleted, control-closed, data-session-exists, data-session-creation-failure, rtp-reversed, rtcp-reversed, cross-cpu-sent, cross-cpu-rcv, cross-cpu-no-session, cross-cpu-created, cross-cpu-rcv-failure, data-free-smp-retry-lookup, data-free-smp-not-found, ha-streams-sent, ha-streams-rcv, ha-stream-incompatible, ha-stream-exists, ha-port-allocation-failure, ha-data-session-sent, ha-data-session-rcv, ha-data-no-smp, ha-control-closed, ha-data-exists, ha-extension-failure, ha-stream-smp-reused, ha-stream-smp-acquire-failure, smp-app-type-mismatch

2.26.114 cgnv6 lsn alg rtsp stats

Statistics for the object rtsp

rtsp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rtsp
Element URI	/axapi/v3/cgnv6/lsn/alg/rtsp/stats
Element Attributes	rtsp_attributes
Partition Visibility	None
Schema	`rtsp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/rtsp/stats

rtsp attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/rtsp/stats

rtsp attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/rtsp/stats

rtsp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/rtsp/stats

rtsp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/rtsp/stats

rtsp attributes

rtsp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

data-session-created

Description Data Session Created

Type: number

Format: counter

data-session-freed

Description Data Session Freed

Type: number

Format: counter

no-session-mem

Description Data Session Creation Failures

Type: number

Format: counter

port-allocation-failure

Description Stream Client Port Allocation Failures

Type: number

Format: counter

ports-allocated

Description Stream Client Ports Allocated

Type: number

Format: counter

ports-freed

Description Stream Client Ports Freed

Type: number

Format: counter

stream-creation-failure

Description Stream Creation Failures

Type: number

Format: counter

streams-created

Description Streams Created

Type: number

Format: counter

streams-freed

Description Streams Freed

Type: number

Format: counter

unknown-client-port-from-server

Description Server Replies With Unknown Client Ports

Type: number

Format: counter

2.26.115 cgnv6 lsn alg sip

Change LSN SIP ALG Settings

sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sip
Element URI	/axapi/v3/cgnv6/lsn/alg/sip
Element Attributes	sip_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn/alg/sip/stats
Schema	`sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/sip

sip attributes

```
POST /axapi/v3/cgnv6/lsn/alg/sip
Payload:
{
    "sip": {
        "sip-value": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/sip

sip attributes

```
GET /axapi/v3/cgnv6/lsn/alg/sip
Reponse:
{
    "sip": {
        "sip-value": "enable",
        "rtp-stun-timeout": 5,
        "uuid": "c5ed0d96-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/alg/sip"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/sip

sip attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/sip

sip attributes

```
PUT /axapi/v3/cgnv6/lsn/alg/sip
Payload:
{
    "sip": {
        "sip-value": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/sip

sip attributes

```
DELETE /axapi/v3/cgnv6/lsn/alg/sip
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

sip attributes

rtp-stun-timeout

Description RTP/RTCP STUN timeout in minutes (Default is 5 minutes)

Type: number

Range: 2-10

Default: 5

sampling-enable

Type: List

sip-value

Description 'enable': Enable SIP ALG for LSN;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'method-register': SIP Method REGISTER; 'method-invite': SIP Method INVITE; 'method-ack': SIP Method ACK; 'method-cancel': SIP Method CANCEL; 'method-bye': SIP Method BYE; 'method-options': SIP Method OPTIONS; 'method-prack': SIP Method PRACK; 'method-subscribe': SIP Method SUBSCRIBE; 'method-notify': SIP Method NOTIFY; 'method-publish': SIP Method PUBLISH; 'method-info': SIP Method INFO; 'method-refer': SIP Method REFER; 'method-message': SIP Method MESSAGE; 'method-update': SIP Method UPDATE; 'method-unknown': SIP Method UNKNOWN; 'parse-error': SIP Message Parse Error; 'req-uri-op-failrue': SIP Operate Request Uri Failure; 'via-hdr-op-failrue': SIP Operate Via Header Failure; 'contact-hdr-op-failrue': SIP Operate Contact Header Failure; 'from-hdr-op-failrue': SIP Operate From Header Failure; 'to-hdr-op-failrue': SIP Operate To Header Failure; 'route-hdr-op-failrue': SIP Operate Route Header Failure; 'record-route-hdr-op-failrue': SIP Operate Record-Route Header Failure; 'content-length-hdr-op-failrue': SIP Operate Content-Length Failure; 'third-party-registration': SIP Third-Party Registration; 'conn-ext-creation-failure': SIP Create Connection Extension Failure; 'alloc-contact-port-failure': SIP Alloc Contact Port Failure; 'outside-contact-port-mismatch': SIP Outside Contact Port Mismatch NAT Port; 'inside-contact-port-mismatch': SIP Inside Contact Port Mismatch; 'third-party-sdp': SIP Third-Party SDP; 'sdp-process-candidate-failure': SIP Operate SDP Media Candidate Attribute Failure; 'sdp-op-failure': SIP Operate SDP Failure; 'sdp-alloc-port-map-success': SIP Alloc SDP Port Map Success; 'sdp-alloc-port-map-failure': SIP Alloc SDP Port Map Failure; 'modify-failure': SIP Message Modify Failure; 'rewrite-failure': SIP Message Rewrite Failure; 'tcp-out-of-order-drop': TCP Out-of-Order Drop; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'helper-found': SMP Helper Conn Found; 'helper-created': SMP Helper Conn Created; 'helper-deleted': SMP Helper Conn Already Deleted; 'helper-freed': SMP Helper Conn Freed; 'helper-failure': SMP Helper Failure;

Type: string

Supported Values: all, method-register, method-invite, method-ack, method-cancel, method-bye, method-options, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error, req-uri-op-failrue, via-hdr-op-failrue, contact-hdr-op-failrue, from-hdr-op-failrue, to-hdr-op-failrue, route-hdr-op-failrue, record-route-hdr-op-failrue, content-length-hdr-op-failrue, third-party-registration, conn-ext-creation-failure, alloc-contact-port-failure, outside-contact-port-mismatch, inside-contact-port-mismatch, third-party-sdp, sdp-process-candidate-failure, sdp-op-failure, sdp-alloc-port-map-success, sdp-alloc-port-map-failure, modify-failure, rewrite-failure, tcp-out-of-order-drop, smp-conn-alloc-failure, helper-found, helper-created, helper-deleted, helper-freed, helper-failure

2.26.116 cgnv6 lsn alg sip stats

Statistics for the object sip

sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sip
Element URI	/axapi/v3/cgnv6/lsn/alg/sip/stats
Element Attributes	sip_attributes
Partition Visibility	None
Schema	`sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/sip/stats

sip attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/sip/stats

sip attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/sip/stats

sip attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/sip/stats

sip attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/sip/stats

sip attributes

sip attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

method-ack

Description SIP Method ACK

Type: number

Format: counter

method-bye

Description SIP Method BYE

Type: number

Format: counter

method-cancel

Description SIP Method CANCEL

Type: number

Format: counter

method-info

Description SIP Method INFO

Type: number

Format: counter

method-invite

Description SIP Method INVITE

Type: number

Format: counter

method-message

Description SIP Method MESSAGE

Type: number

Format: counter

method-notify

Description SIP Method NOTIFY

Type: number

Format: counter

method-options

Description SIP Method OPTIONS

Type: number

Format: counter

method-prack

Description SIP Method PRACK

Type: number

Format: counter

method-publish

Description SIP Method PUBLISH

Type: number

Format: counter

method-refer

Description SIP Method REFER

Type: number

Format: counter

method-register

Description SIP Method REGISTER

Type: number

Format: counter

method-subscribe

Description SIP Method SUBSCRIBE

Type: number

Format: counter

method-unknown

Description SIP Method UNKNOWN

Type: number

Format: counter

method-update

Description SIP Method UPDATE

Type: number

Format: counter

parse-error

Description SIP Message Parse Error

Type: number

Format: counter

tcp-out-of-order-drop

Description TCP Out-of-Order Drop

Type: number

Format: counter

2.26.117 cgnv6 lsn alg tftp

Change LSN TFTP ALG Settings

tftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tftp
Element URI	/axapi/v3/cgnv6/lsn/alg/tftp
Element Attributes	tftp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn/alg/tftp/stats
Schema	`tftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/tftp

tftp attributes

```
POST /axapi/v3/cgnv6/lsn/alg/tftp
Payload:
{
    "tftp": {
        "tftp-value": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/tftp

tftp attributes

```
GET /axapi/v3/cgnv6/lsn/alg/tftp
Reponse:
{
    "tftp": {
        "tftp-value": "enable",
        "uuid": "c5ed0f76-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/alg/tftp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/tftp

tftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/tftp

tftp attributes

```
PUT /axapi/v3/cgnv6/lsn/alg/tftp
Payload:
{
    "tftp": {
        "tftp-value": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/tftp

tftp attributes

```
DELETE /axapi/v3/cgnv6/lsn/alg/tftp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

tftp attributes

sampling-enable

Type: List

tftp-value

Description 'enable': Enable TFTP ALG for LSN;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions Created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

2.26.118 cgnv6 lsn alg tftp stats

Statistics for the object tftp

tftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tftp
Element URI	/axapi/v3/cgnv6/lsn/alg/tftp/stats
Element Attributes	tftp_attributes
Partition Visibility	None
Schema	`tftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/alg/tftp/stats

tftp attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/alg/tftp/stats

tftp attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/alg/tftp/stats

tftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/alg/tftp/stats

tftp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/alg/tftp/stats

tftp attributes

tftp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

session-created

Description TFTP Client Sessions Created

Type: number

Format: counter

2.26.119 cgnv6 lsn all-sessions

Forcibly remove all sessions relevant to the NAT pool

all-sessions Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	all-sessions
Element URI	/axapi/v3/cgnv6/lsn/all-sessions
Element Attributes	all-sessions_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/lsn/all-sessions/oper
Schema	`all-sessions schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/all-sessions

all-sessions attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/all-sessions

all-sessions attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/all-sessions

all-sessions attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/all-sessions

all-sessions attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/all-sessions

all-sessions attributes

all-sessions attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.120 cgnv6 lsn all-sessions oper

Operational Status for the object all-sessions

all-sessions Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	all-sessions
Element URI	/axapi/v3/cgnv6/lsn/all-sessions/oper
Element Attributes	all-sessions_attributes
Partition Visibility	None
Schema	`all-sessions schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/all-sessions/oper

all-sessions attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/all-sessions/oper

all-sessions attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/all-sessions/oper

all-sessions attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/all-sessions/oper

all-sessions attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/all-sessions/oper

all-sessions attributes

all-sessions attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

nat-pool-name

Description

Type: string

status

Description

Type: string

2.26.121 cgnv6 lsn data-sessions

To clear lsn data sessions by user or NAT resource

data-sessions Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	data-sessions
Element URI	/axapi/v3/cgnv6/lsn/data-sessions
Element Attributes	data-sessions_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/lsn/data-sessions/oper
Schema	`data-sessions schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/data-sessions

data-sessions attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/data-sessions

data-sessions attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/data-sessions

data-sessions attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/data-sessions

data-sessions attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/data-sessions

data-sessions attributes

data-sessions attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.122 cgnv6 lsn data-sessions oper

Operational Status for the object data-sessions

data-sessions Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	data-sessions
Element URI	/axapi/v3/cgnv6/lsn/data-sessions/oper
Element Attributes	data-sessions_attributes
Partition Visibility	None
Schema	`data-sessions schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/data-sessions/oper

data-sessions attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/data-sessions/oper

data-sessions attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/data-sessions/oper

data-sessions attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/data-sessions/oper

data-sessions attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/data-sessions/oper

data-sessions attributes

data-sessions attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

inside-addr

Description

Type: string

Format: ipv4-address

inside-addr-end

Description

Type: string

Format: ipv4-address

inside-addr-start

Description

Type: string

Format: ipv4-address

inside-port

Description

Type: number

nat-addr

Description

Type: string

Format: ipv4-address

nat-addr-end

Description

Type: string

Format: ipv4-address

nat-addr-start

Description

Type: string

Format: ipv4-address

nat-port

Description

Type: number

status

Description

Type: string

2.26.123 cgnv6 lsn endpoint-independent-filtering

Configure Endpoint-Independent-Filtering Behavior (default: disabled)

endpoint-independent-filtering Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	endpoint-independent-filtering
Element URI	/axapi/v3/cgnv6/lsn/endpoint-independent-filtering
Element Attributes	endpoint-independent-filtering_attributes
Partition Visibility	shared
Schema	`endpoint-independent-filtering schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/lsn/endpoint-independent-filtering

endpoint-independent-filtering_attributes

endpoint-independent-filtering attributes

tcp

Description: tcp is a **JSON Block**. Please see below for *tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp*

udp

Specification	Value
Type	*object*

port-list

Type: List

session-limit

Description Limit number of EIF sessions that can be created per port

Type: number

Range: 1-65535

Default: 65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

tcp

Specification	Value
Type	*object*

port-list

Type: List

session-limit

Description Limit number of EIF sessions that can be created per port

Type: number

Range: 1-65535

Default: 65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.124 cgnv6 lsn endpoint-independent-filtering tcp

Set behavior for TCP

tcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tcp
Element URI	/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp
Element Attributes	tcp_attributes
Partition Visibility	shared
Schema	`tcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp

tcp attributes

```
POST /axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp
Payload:
{
    "tcp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp

tcp attributes

```
GET /axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp
Reponse:
{
    "tcp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
```

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```
            }
        ],
        "session-limit": 65535,
        "uuid": "cbb74304-089f-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp

tcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp

tcp attributes

```
PUT /axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp
Payload:
{
    "tcp": {
        "port-list": [
            {
                "port": 2,
                "port-end": 2
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp

tcp attributes

```
DELETE /axapi/v3/cgnv6/lsn/endpoint-independent-filtering/tcp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

tcp attributes

port-list

Type: List

session-limit

Description Limit number of EIF sessions that can be created per port

Type: number

Range: 1-65535

Default: 65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.125 cgnv6 lsn endpoint-independent-filtering udp

Set behavior for UDP

udp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	udp
Element URI	/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp
Element Attributes	udp_attributes
Partition Visibility	shared
Schema	`udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp

udp attributes

```
POST /axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp
Payload:
{
    "udp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp

udp attributes

```
GET /axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp
Reponse:
{
    "udp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
            }
        ],
        "session-limit": 65535,
        "uuid": "f350bb02-089f-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp

udp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp

udp attributes

```
PUT /axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp
Payload:
{
    "udp": {
        "port-list": [
            {
                "port": 2,
                "port-end": 2
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp

udp attributes

```
DELETE /axapi/v3/cgnv6/lsn/endpoint-independent-filtering/udp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

udp attributes

port-list

Type: List

session-limit

Description Limit number of EIF sessions that can be created per port

Type: number

Range: 1-65535

Default: 65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.126 cgnv6 lsn endpoint-independent-mapping

Configure Endpoint-Independent-Mapping Behavior (default: disabled)

endpoint-independent-mapping Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	endpoint-independent-mapping
Element URI	/axapi/v3/cgnv6/lsn/endpoint-independent-mapping
Element Attributes	endpoint-independent-mapping_attributes
Partition Visibility	shared
Schema	`endpoint-independent-mapping schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/lsn/endpoint-independent-mapping

endpoint-independent-mapping_attributes

endpoint-independent-mapping attributes

tcp

Description: tcp is a **JSON Block**. Please see below for *tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp*

udp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

tcp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.127 cgnv6 lsn endpoint-independent-mapping tcp

Set behavior for TCP

tcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tcp
Element URI	/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp
Element Attributes	tcp_attributes
Partition Visibility	shared
Schema	`tcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp

tcp attributes

```
POST /axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp
Payload:
{
    "tcp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp

tcp attributes

```
GET /axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp
Reponse:
{
    "tcp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
            }
        ],
        "uuid": "2276c728-08a0-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp

tcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp

tcp attributes

```
PUT /axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp
Payload:
{
    "tcp": {
        "port-list": [
            {
                "port": 2,
                "port-end": 2
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp

tcp attributes

```
DELETE /axapi/v3/cgnv6/lsn/endpoint-independent-mapping/tcp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

tcp attributes

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.128 cgnv6 lsn endpoint-independent-mapping udp

Set behavior for UDP

udp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	udp
Element URI	/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp
Element Attributes	udp_attributes
Partition Visibility	shared
Schema	`udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp

udp attributes

```
POST /axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp
Payload:
{
    "udp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
            }
        ]
```

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```
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp

udp attributes

```
GET /axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp
Reponse:
{
    "udp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
            }
        ],
        "uuid": "3d3f18bc-08a0-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp

udp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp

udp attributes

```
PUT /axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp
Payload:
{
    "udp": {
        "port-list": [
            {
                "port": 2,
                "port-end": 2
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp

udp attributes

```
DELETE /axapi/v3/cgnv6/lsn/endpoint-independent-mapping/udp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

udp attributes

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.129 cgnv6 lsn enhanced-user-tracking

LSN Enhanced User Data

enhanced-user-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	enhanced-user-tracking
Element URI	/axapi/v3/cgnv6/lsn/enhanced-user-tracking
Element Attributes	enhanced-user-tracking_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/lsn/enhanced-user-tracking/oper
Schema	`enhanced-user-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/enhanced-user-tracking

enhanced-user-tracking attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/enhanced-user-tracking

enhanced-user-tracking attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/enhanced-user-tracking

enhanced-user-tracking attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/enhanced-user-tracking

enhanced-user-tracking attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/enhanced-user-tracking

enhanced-user-tracking attributes

enhanced-user-tracking attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.130 cgnv6 lsn enhanced-user-tracking oper

Operational Status for the object enhanced-user-tracking

enhanced-user-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	enhanced-user-tracking
Element URI	/axapi/v3/cgnv6/lsn/enhanced-user-tracking/oper
Element Attributes	enhanced-user-tracking_attributes
Partition Visibility	None
Schema	`enhanced-user-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/enhanced-user-tracking/oper

enhanced-user-tracking attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/enhanced-user-tracking/oper

enhanced-user-tracking attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/enhanced-user-tracking/oper

enhanced-user-tracking attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/enhanced-user-tracking/oper

enhanced-user-tracking attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/enhanced-user-tracking/oper

enhanced-user-tracking attributes

enhanced-user-tracking attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-partitions

Description

Type: boolean

Supported Values: true, false, 1, 0

inside-addr

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

partition-name

Description

Type: string

pool-shared

Description

Type: boolean

Supported Values: true, false, 1, 0

shared-partition

Description

Type: boolean

Supported Values: true, false, 1, 0

user-count

Description

Type: number

user-list

Type: List

oper_user-list

Specification	Value
Type	*list*
Block object keys	

dwl-bytes

Description

Type: number

dwl-packets

Description

Type: number

icmp-peak

Description

Type: number

Range: 1-65535

icmp-quota

Description

Type: number

Range: 1-65535

inside-address

Description

Type: string

Format: ipv4-address

nat-address

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

session-count

Description

Type: number

session-count-tcp

Description

Type: number

session-count-udp

Description

Type: number

session-peak

Description

Type: number

tcp-peak

Description

Type: number

Range: 1-65535

tcp-quota

Description

Type: number

Range: 1-65535

total-session-count

Description

Type: number

udp-peak

Description

Type: number

Range: 1-65535

udp-quota

Description

Type: number

Range: 1-65535

upl-bytes

Description

Type: number

upl-packets

Description

Type: number

2.26.131 cgnv6 lsn full-cone-session

Full Cone Sessions

full-cone-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	full-cone-session
Element URI	/axapi/v3/cgnv6/lsn/full-cone-session
Element Attributes	full-cone-session_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/lsn/full-cone-session/oper
Schema	`full-cone-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/full-cone-session

full-cone-session attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/full-cone-session

full-cone-session attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/full-cone-session

full-cone-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/full-cone-session

full-cone-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/full-cone-session

full-cone-session attributes

full-cone-session attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.132 cgnv6 lsn full-cone-session oper

Operational Status for the object full-cone-session

full-cone-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	full-cone-session
Element URI	/axapi/v3/cgnv6/lsn/full-cone-session/oper
Element Attributes	full-cone-session_attributes
Partition Visibility	None
Schema	`full-cone-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/full-cone-session/oper

full-cone-session attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/full-cone-session/oper

full-cone-session attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/full-cone-session/oper

full-cone-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/full-cone-session/oper

full-cone-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/full-cone-session/oper

full-cone-session attributes

full-cone-session attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-partitions

Description

Type: boolean

Supported Values: true, false, 1, 0

debug-session

Description

Type: boolean

Supported Values: true, false, 1, 0

graceful

Description

Type: boolean

Supported Values: true, false, 1, 0

inside-addr

Description

Type: string

Format: ipv4-address

inside-addr-end

Description

Type: string

Format: ipv4-address

inside-addr-start

Description

Type: string

Format: ipv4-address

inside-port

Description

Type: number

nat-addr

Description

Type: string

Format: ipv4-address

nat-addr-end

Description

Type: string

Format: ipv4-address

nat-addr-start

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

nat-port

Description

Type: number

partition-name

Description

Type: string

pcp

Description

Type: boolean

Supported Values: true, false, 1, 0

pool-shared

Description

Type: boolean

Supported Values: true, false, 1, 0

session-count

Description

Type: number

session-list

Type: List

shared-partition

Description

Type: boolean

Supported Values: true, false, 1, 0

total-session-count

Description

Type: number

oper_session-list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: string

cpu

Description

Type: number

flags

Description

Type: string

inbound

Description

Type: number

inside-address

Description

Type: string

Format: ipv4-address

inside-port

Description

Type: number

nat-address

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

nat-port

Description

Type: number

outbound

Description

Type: number

protocol

Description

Type: string

2.26.133 cgnv6 lsn global

Set Large-Scale NAT config parameters

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/lsn/global
Element Attributes	global_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn/global/stats
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/global

global attributes

```
POST /axapi/v3/cgnv6/lsn/global
Payload:
{
    "global": {
        "strictly-sticky-nat": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/global

global attributes

```
GET /axapi/v3/cgnv6/lsn/global
Reponse:
{
    "global": {
        "strictly-sticky-nat": 1,
        "enhanced-user-tracking": 0,
        "hairpinning": "filter-none",
        "inbound-refresh": "enable",
        "inbound-refresh-full-cone": "enable",
        "ip-selection": "random",
        "syn-timeout": 4,
        "icmp": {
            "send-on-port-unavailable": "disable",
            "send-on-user-quota-exceeded": "admin-filtered"
        },
        "port-batching": {
            "size": "1",
            "tcp-time-wait-interval": 2
        },
        "uuid": "c5ed0012-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/global"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/global

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/global

global attributes

```
PUT /axapi/v3/cgnv6/lsn/global
Payload:
{
    "global": {
        "strictly-sticky-nat": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/global

global attributes

```
DELETE /axapi/v3/cgnv6/lsn/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

global attributes

attempt-port-preservation

Description 'disable': Don't attempt port preservation for NAT allocation;

Type: string

Supported Values: disable

enhanced-user-tracking

Description Enable enhanced user tracking and visibility (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

hairpinning

Description 'filter-none': Allow self-hairpinning (default). Warning: Only applies to UDP. TCP will use filter-self-ip-port; 'filter-self-ip': Block hairpinning to the user's own IP; 'filter-self-ip-port': Block hairpinning to the user's same IP and port combination;

Type: string

Supported Values: filter-none, filter-self-ip, filter-self-ip-port

Default: filter-none

half-close-timeout

Description Set LSN Half close timeout (Half close timeout in seconds (default not set))

Type: number

Range: 2-3000

icmp

Description: icmp is a **JSON Block**. Please see below for *icmp*

Type: Object

inbound-refresh

Description 'enable': Enable NAT Inbound Refresh Behavior; 'disable': Disable NAT Inbound Refresh Behavior;

Type: string

Supported Values: enable, disable

Default: enable

inbound-refresh-full-cone

Description 'enable': Enable NAT full cone refresh for inbound flows; 'disable': Disable NAT full cone refresh for inbound flows;

Type: string

Supported Values: enable, disable

Default: enable

ip-selection

Description 'random': Random (long-run uniformly distributed) NAT IP selection (default); 'round-robin': Round-robin; 'least-used-strict': Fewest NAT ports used; 'least-udp-used-strict': Fewest UDP NAT ports used; 'least-tcp-used-strict': Fewest TCP NAT ports used; 'least-reserved-strict': Fewest NAT ports reserved; 'least-udp-reserved-strict': Fewest UDP NAT ports reserved; 'least-tcp-reserved-strict': Fewest TCP NAT ports reserved; 'least-users-strict': Fewest number of users;

Type: string

Supported Values: random, round-robin, least-used-strict, least-udp-used-strict, least-tcp-used-strict, least-reserved-strict, least-udp-reserved-strict, least-tcp-reserved-strict, least-users-strict

Default: random

logging

Description: logging is a **JSON Block**. Please see below for *logging*

Type: Object

port-batching

Description: port-batching is a **JSON Block**. Please see below for *port-batching*

Type: Object

sampling-enable

Type: List

strictly-sticky-nat

Description Strictly adheres to sticky-nat (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-timeout

Description Set LSN SYN timeout (SYN idle-timeout in seconds (default: 4 seconds))

Type: number

Range: 2-30

Default: 4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp

Specification	Value
Type	*object*

send-on-port-unavailable

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered; 'disable': Disable ICMP port unavailable message (default);

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: disable

send-on-user-quota-exceeded

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered (default); 'disable': Disable ICMP quota exceeded message;

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: admin-filtered

logging

Specification	Value
Type	*object*

default-template

Description Bind the default NAT logging template for LSN (Bind a NAT logging template)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/logging*

partition-name

Description Select partition name for logging

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

Mutual Exclusion: partition-name and shared are mutually exclusive

Reference Object: */axapi/v3/partition*

pool

Type: List

shared

Description Select shared partition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: shared and partition-name are mutually exclusive

logging_pool

Specification	Value
Type	*list*
Block object keys	

pool-name

Description NAT pool

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/nat/pool*

template

Description Bind a NAT logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/template/logging*

port-batching

Specification	Value
Type	*object*

size

Description '1': Allocate 1 port at a time (default); '8': Allocate 8 ports at a time; '16': Allocate 16 ports at a time; '32': Allocate 32 ports at a time; '64': Allocate 64 ports at a time; '128': Allocate 128 ports at a time; '256': Allocate 256 ports at a time; '512': Allocate 512 ports at a time;

Type: string

Supported Values: 1, 8, 16, 32, 64, 128, 256, 512

Default: 1

tcp-time-wait-interval

Description Minutes before TCP NAT ports can be reused (default: 2)

Type: number

Range: 0-10

Default: 2

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_tcp_allocated': Total TCP Ports Allocated; 'total_tcp_freed': Total TCP Ports Freed; 'total_udp_allocated': Total UDP Ports Allocated; 'total_udp_freed':

Total UDP Ports Freed; 'total_icmp_allocated': Total ICMP Ports Allocated; 'total_icmp_freed': Total ICMP Ports Freed; 'data_session_created': Data Session Created; 'data_session_freed': Data Session Freed; 'user_quota_created': User-Quota Created; 'user_quota_put_in_del_q': User-Quota Freed; 'user_quota_failure': User-Quota Creation Failed; 'nat_port_unavailable_tcp': TCP NAT Port Unavailable; 'nat_port_unavailable_udp': UDP NAT Port Unavailable; 'nat_port_unavailable_icmp': ICMP NAT Port Unavailable; 'new_user_resource_unavailable': New User NAT Resource Unavailable; 'tcp_user_quota_exceeded': TCP User-Quota Exceeded; 'udp_user_quota_exceeded': UDP User-Quota Exceeded; 'icmp_user_quota_exceeded': ICMP User-Quota Exceeded; 'extended_quota_matched': Extended User-Quota Matched; 'extended_quota_exceeded': Extended User-Quota Exceeded; 'data_sesn_user_quota_exceeded': Data Session User-Quota Exceeded; 'data_sesn_rate_user_quota_exceeded': Conn Rate User-Quota Exceeded; 'tcp_fullcone_created': TCP Full-cone Session Created; 'tcp_fullcone_freed': TCP Full-cone Session Freed; 'udp_fullcone_created': UDP Full-cone Session Created; 'udp_fullcone_freed': UDP Full-cone Session Freed; 'fullcone_failure': Full-cone Session Creation Failed; 'hairpin': Hairpin Session Created; 'fullcone_self_hairpinning_drop': Self-Hairpinning Drop; 'endpoint_indep_map_match': Endpoint-Independent Mapping Matched; 'endpoint_indep_filter_match': Endpoint-Independent Filtering Matched; 'inbound_filtered': Endpoint-Dependent Filtering Drop; 'eif_limit_exceeded': Endpoint-Independent Filtering Inbound Limit Exceeded; 'total_tcp_overloaded': TCP Port Overloaded; 'total_udp_overloaded': UDP Port Overloaded; 'port_overloading_smp_inserted_tcp': TCP Port Overloading Session Created; 'port_overloading_smp_inserted_udp': UDP Port Overloading Session Created; 'port_overloading_smp_free_tcp': TCP Port Overloading Session Freed; 'port_overloading_smp_free_udp': UDP Port Overloading Session Freed; 'nat_pool_unusable': NAT Pool Unusable; 'ha_nat_pool_unusable': HA NAT Pool Unusable; 'ha_nat_pool_batch_type_mismatch': HA NAT Pool Batch Type Mismatch; 'no_radius_profile_match': No RADIUS Profile Match; 'nat_ip_max_tcp_ports_allocated': NAT IP TCP Max Ports Allocated; 'nat_ip_max_udp_ports_allocated': NAT IP UDP Max Ports Allocated; 'no_class_list_match': No Class-List Match; 'lid_drop': LSN LID Drop; 'lid_pass_through': LSN LID Pass-through; 'fullcone_in_del_q': Full-cone session found in delete queue; 'fullcone_retry_lookup': Full-cone session retry look-up; 'fullcone_not_found': Full-cone session not found; 'nat_port_double_free': NAT Port Double Free; 'nat_port_chunk_freed_from_cpu': NAT Port Chunks Freed From CPU; 'nat_port_freed_from_diff_cpu': NAT Port Freed On Different CPU; 'nat_pool_deleted': NAT Pool Deleted; 'nat_esp_ip_conflicts': LSN NAT ESP IP Conflicts; 'nat_esp_no_control_sesn': LSN NAT ESP No Control Session; 'esp_user_quota_exceeded': ESP User-Quota exceeded; 'udp_alg_user_quota_exceeded': UDP ALG User-Quota exceeded; 'gre_user_quota_exceeded': GRE User-Quota exceeded; 'ha_classlist_mismatch': HA Class-list Mismatch; 'ha_user_quota_mismatch': HA User-Quota Mismatch; 'ha_fullcone_mismatch': HA Full-cone Mismatch; 'ha_port_mismatch': HA Port Mismatch; 'ha_dnat_mismatch': HA Destination NAT Config Mismatch; 'ha_nat_port_unavailable': HA NAT Port Unavailable; 'ha_unknown_nat_ip': HA Unknown NAT IP; 'ha_fullcone_failure': HA Full-cone Session Failure; 'ha_fullcone_create_race_failure': HA Full-cone Create Race Failure; 'ha_endpoint_indep_map_match': HA Endpoint-independent Matching; 'standby_class_list_drop': HA Standby Class-List drop; 'bad_tuple_nat_ip': Bad NAT IP from tuple; 'bad_smp_tuple_nat_ip': Bad NAT IP from SMP tuple; 'fullcone_inbound_nat_pool_mismatch': Full-cone Session NAT Pool Mismatch; 'fullcone_overflow_eim': Full-cone Session EIM Overflow; 'fullcone_overflow_eif': Full-cone Session EIF Overflow; 'cross_cpu_helper_created': Cross CPU Session Helper Created; 'cross_cpu_sent': Cross CPU Helper Packets Sent; 'cross_cpu_rcv': Cross CPU Helper Packets Received; 'cross_cpu_bad_l3': Cross CPU Unsupported L3; 'cross_cpu_bad_l4': Cross CPU Unsupported L4; 'cross_cpu_no_session': Cross CPU No Session Found; 'cross_cpu_helper_free': Cross CPU Helper Free; 'cross_cpu_helper_free_retry_lookup': Cross CPU Helper Free

Retry Lookup; 'cross_cpu_helper_free_not_found': Cross CPU Helper Free Not Found; 'cross_cpu_helper_deleted': Cross CPU Helper Deleted; 'cross_cpu_helper_cpu_mismatch': Cross CPU Helper CPU Mismatch; 'cross_cpu_helper_nat_pool_standby': Cross CPU Helper NAT Pool Standby; 'cross_cpu_helper_double_add': Cross CPU Helper Double Add Attempt; 'mtu_exceeded': Packet Exceeded MTU; 'frag': Fragmented Packets; 'dslite_tunnel_frag': IPv4 Fragment DS-Lite Packet; 'sixrd_tunnel_frag': IPv6 Fragment IPv6-in-IPv4 Packet; 'frag_icmp': ICMP Packet Too Big Sent; 'frag_tunnel_icmp': DS-Lite ICMP Packet Too Big Sent; 'quota_ext_mem_allocated': Quota Extension Memory Allocated; 'quota_ext_mem_alloc_failure': Quota Extension Out of Memory; 'quota_ext_mem_freed': Quota Extension Memory Freed; 'quota_ext_put_in_del_q': Quota Extension Put in Delete Queue; 'port_batch_num_mismatch': Specific Port Batch Num Ports Mismatch; 'port_batch_interval_mismatch': Specific Port Batch Port Interval Mismatch; 'port_pair_alloc_bad_math': Port Pair Alloc Bad Math; 'free_port_from_quota_no_container': Free Port from Quota No Container; 'free_port_from_quota_no_port_info': Free Port From Quota No Port Info; 'static_nat_cross_cpu_helper_created': Cross CPU Helper Created for Static NAT; 'static_nat_cross_cpu_helper_deleted': Cross CPU Helper Deleted for Static NAT; 'static_nat_cross_cpu_helper_standby': Cross CPU Helper Static NAT Standby; 'static_nat_cross_cpu_helper_cpu_mismatch': Static NAT Cross CPU Helper CPU Mismatch; 'static_nat_cross_cpu_sent': Static NAT Cross CPU Helper Sent; 'static_nat_cross_cpu_rcv': Static NAT Cross CPU Helper Packets Received; 'static_nat_cross_cpu_bad_l3': Static NAT Cross CPU Unsupported L3; 'static_nat_cross_cpu_bad_l4': Static NAT Cross CPU Unsupported L4; 'static_nat_cross_cpu_no_session': Static NAT Cross CPU No Session Found; 'static_nat_cross_cpu_helper_free': Static NAT Cross CPU Helper Free; 'static_nat_cross_cpu_helper_free_retry_lookup': Static NAT Cross CPU Helper Free Retry Lookup; 'static_nat_cross_cpu_helper_free_not_found': Static NAT Cross CPU Helper Free Not Found; 'static_nat_ha_map_mismatch': Static NAT Mapping Mismatch on HA Standby; 'ip_slb_cross_cpu_sent': IP SLB Cross CPU Packets Sent; 'fullcone_force_deleted': Full-cone Session Force Deleted; 'user_quota_mem_allocated': User-Quota Memory Allocated; 'user_quota_mem_freed': User-Quota Memory Freed; 'user_quota_created_shadow': Total User-Quota Created; 'quota_marked_deleted': User-Quota Marked Deleted; 'quota_delete_not_in_bucket': User-Quota Delete Not In Bucket; 'user_quota_put_in_del_q_shadow': Total User-Quota Put In Del Q; 'tcp_out_of_state_rst_sent': Total Out of State TCP RST sent; 'tcp_out_of_state_rst_dropped': Total Out of State TCP RST dropped; 'icmp_out_of_state_uqe_admin_filtered_sent': Total User Quota Exceeded ICMP admin filtered sent; 'icmp_out_of_state_uqe_host_unreachable_sent': Total User Quota Exceeded ICMP host unreachable sent; 'icmp_out_of_state_uqe_dropped': Total User Queue Exceeded ICMP notification dropped;

Type: string

Supported Values: all, total_tcp_allocated, total_tcp_freed, total_udp_allocated, total_udp_freed, total_icmp_allocated, total_icmp_freed, data_session_created, data_session_freed, user_quota_created, user_quota_put_in_del_q, user_quota_failure, nat_port_unavailable_tcp, nat_port_unavailable_udp, nat_port_unavailable_icmp, new_user_resource_unavailable, tcp_user_quota_exceeded, udp_user_quota_exceeded, icmp_user_quota_exceeded, extended_quota_matched, extended_quota_exceeded, data_sesn_user_quota_exceeded, data_sesn_rate_user_quota_exceeded, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_failure, hairpin, fullcone_self_hairpinning_drop, endpoint_indep_map_match, endpoint_indep_filter_match, inbound_filtered, eif_limit_exceeded, total_tcp_overloaded, total_udp_overloaded, port_overloading_smp_inserted_tcp, port_overloading_smp_inserted_udp, port_overloading_smp_free_tcp, port_overloading_smp_free_udp, nat_pool_unusable, ha_nat_pool_unusable, ha_nat_pool_batch_type_mismatch, no_radius_profile_match,

nat_ip_max_tcp_ports_allocated, nat_ip_max_udp_ports_allocated, no_class_list_match, lid_drop, lid_pass_through, fullcone_in_del_q, fullcone_retry_lookup, fullcone_not_found, nat_port_double_free, nat_port_chunk_freed_from_cpu, nat_port_freed_from_diff_cpu, nat_pool_deleted, nat_esp_ip_conflicts, nat_esp_no_control_sesn, esp_user_quota_exceeded, udp_alg_user_quota_exceeded, gre_user_quota_exceeded, ha_classlist_mismatch, ha_user_quota_mismatch, ha_fullcone_mismatch, ha_port_mismatch, ha_dnat_mismatch, ha_nat_port_unavailable, ha_unknown_nat_ip, ha_fullcone_failure, ha_fullcone_create_race_failure, ha_endpoint_indep_map_match, standby_class_list_drop, bad_tuple_nat_ip, bad_smp_tuple_nat_ip, fullcone_inbound_nat_pool_mismatch, fullcone_overflow_eim, fullcone_overflow_eif, cross_cpu_helper_created, cross_cpu_sent, cross_cpu_rcv, cross_cpu_bad_l3, cross_cpu_bad_l4, cross_cpu_no_session, cross_cpu_helper_free, cross_cpu_helper_free_retry_lookup, cross_cpu_helper_free_not_found, cross_cpu_helper_deleted, cross_cpu_helper_cpu_mismatch, cross_cpu_helper_nat_pool_standby, cross_cpu_helper_double_add, mtu_exceeded, frag, dslite_tunnel_frag, sixrd_tunnel_frag, frag_icmp, frag_tunnel_icmp, quota_ext_mem_allocated, quota_ext_mem_alloc_failure, quota_ext_mem_freed, quota_ext_put_in_del_q, port_batch_num_mismatch, port_batch_interval_mismatch, port_pair_alloc_bad_math, free_port_from_quota_no_container, free_port_from_quota_no_port_info, static_nat_cross_cpu_helper_created, static_nat_cross_cpu_helper_deleted, static_nat_cross_cpu_helper_standby, static_nat_cross_cpu_helper_cpu_mismatch, static_nat_cross_cpu_sent, static_nat_cross_cpu_rcv, static_nat_cross_cpu_bad_l3, static_nat_cross_cpu_bad_l4, static_nat_cross_cpu_no_session, static_nat_cross_cpu_helper_free, static_nat_cross_cpu_helper_free_retry_lookup, static_nat_cross_cpu_helper_free_not_found, static_nat_ha_map_mismatch, ip_slb_cross_cpu_sent, fullcone_force_deleted, user_quota_mem_allocated, user_quota_mem_freed, user_quota_created_shadow, quota_marked_deleted, quota_delete_not_in_bucket, user_quota_put_in_del_q_shadow, tcp_out_of_state_rst_sent, tcp_out_of_state_rst_dropped, icmp_out_of_state_uqe_admin_filtered_sent, icmp_out_of_state_uqe_host_unreachable_sent, icmp_out_of_state_uqe_dropped

counters2

Description 'user_quota_not_found': User-Quota Not Found; 'tcp_fullcone_created_shadow': Total TCP Full-cone sessions created; 'tcp_fullcone_freed_shadow': Total TCP Full-cone sessions freed; 'udp_fullcone_created_shadow': Total UDP Full-cone sessions created; 'udp_fullcone_freed_shadow': Total UDP Full-cone sessions freed; 'udp_alg_fullcone_created': Total UDP ALG Full-cone sessions created; 'udp_alg_fullcone_freed': Total UDP ALG Full-cone sessions freed; 'fullcone_created': Total Full-cone sessions created; 'fullcone_freed': Total Full-cone sessions freed; 'data_session_created_shadow': Total Data Sessions Created; 'data_session_freed_shadow': Total Data Sessions Freed; 'data_session_user_quota_mismatch': Data Session Counter Per User Mismatch; 'extended_quota_mismatched': Extended User-Quota Mismatched; 'nat_port_unavailable_other': Other NAT Port Unavailable; 'nat_port_unavailable': Total NAT Port Unavailable; 'new_user_resource_unavailable_tcp': TCP New User NAT Resource Unavailable; 'new_user_resource_unavailable_udp': UDP New User NAT Resource Unavailable; 'new_user_resource_unavailable_icmp': ICMP New User NAT Resource Unavailable; 'new_user_resource_unavailable_other': Other New User NAT Resource Unavailable; 'total_tcp_allocated_shadow': Total TCP Ports Allocated; 'total_tcp_freed_shadow': Total TCP Ports Freed; 'total_udp_allocated_shadow': Total UDP Ports Allocated; 'total_udp_freed_shadow': Total UDP Ports Freed; 'total_icmp_allocated_shadow': Total ICMP Ports Allocated; 'total_icmp_freed_shadow': Total ICMP Ports Freed; 'udp_alg_no_quota': UDP ALG User-Quota Not Found; 'udp_alg_eim_mismatch': UDP ALG Endpoint-Independent Mapping Mismatch; 'udp_alg_no_nat_ip': UDP ALG User-Quota Unknown

NAT IP; 'udp_alg_alloc_failure': UDP ALG Port Allocation Failure; 'sip_alg_no_quota': SIP ALG User-Quota Not Found; 'sip_alg_quota_inc_failure': SIP ALG User-Quota Exceeded; 'sip_alg_no_nat_ip': SIP ALG Unknown NAT IP; 'sip_alg_reuse_contact_fullcone': SIP ALG Reuse Contact Full-cone Session; 'sip_alg_contact_fullcone_mismatch': SIP ALG Contact Full-cone Session Mismatch; 'sip_alg_alloc_contact_port_failure': SIP ALG Alloc Contact NAT Port Failure; 'sip_alg_create_contact_fullcone_failure': SIP ALG Create Contact Full-cone Session Failure; 'sip_alg_release_contact_port_failure': SIP ALG Release Contact NAT Port Failure; 'sip_alg_single_rtp_fullcone': SIP ALG Single RTP Full-cone Found; 'sip_alg_single_rtcp_fullcone': SIP ALG Single RTCP Full-cone Found; 'sip_alg_rtcp_fullcone_mismatch': SIP ALG RTCP Full-cone NAT Port Mismatch; 'sip_alg_reuse_rtp_rtcp_fullcone': SIP ALG Reuse RTP/RTCP Full-cone Session; 'sip_alg_alloc_rtp_rtcp_port_failure': SIP ALG Alloc RTP/RTCP NAT Ports Failure; 'sip_alg_alloc_single_port_failure': SIP ALG Alloc Single RTP or RTCP NAT Port Failure; 'sip_alg_create_single_fullcone_failure': SIP ALG Create Single RTP or RTCP Full-cone Session Failure; 'sip_alg_create_rtp_fullcone_failure': SIP ALG Create RTP Full-cone Session Failure; 'sip_alg_create_rtcp_fullcone_failure': SIP ALG Create RTCP Full-cone Session Failure; 'sip_alg_port_pair_alloc_from_consecutive': SIP ALG Port Pair Allocated From Consecutive; 'sip_alg_port_pair_alloc_from_partition': SIP ALG Port Pair Allocated From Partition; 'sip_alg_port_pair_alloc_from_pool_port_batch': SIP ALG Port Pair Allocated From Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_consecutive': SIP ALG Port Pair Allocated From Quota Consecutive; 'sip_alg_port_pair_alloc_from_quota_partition': SIP ALG Port Pair Allocated From Quota Partition; 'sip_alg_port_pair_alloc_from_quota_partition_error': SIP ALG Port Pair Allocated From Quota Partition Error; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch': SIP ALG Port Pair Allocated From Quota Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag': SIP ALG Port Pair Allocated From Quota Port Batch Version 2 with Frag Free Ports; 'h323_alg_no_quota': H323 ALG User-Quota Not Found; 'h323_alg_quota_inc_failure': H323 ALG User-Quota Exceeded; 'h323_alg_no_nat_ip': H323 ALG Unknown NAT IP; 'h323_alg_reuse_fullcone': H323 ALG Reuse Full-cone Session; 'h323_alg_fullcone_mismatch': H323 ALG Full-cone Session Mismatch; 'h323_alg_alloc_port_failure': H323 ALG Alloc NAT Port Failure; 'h323_alg_create_fullcone_failure': H323 ALG Create Full-cone Session Failure; 'h323_alg_release_port_failure': H323 ALG Release NAT Port Failure; 'h323_alg_single_rtp_fullcone': H323 ALG Single RTP Full-cone Found; 'h323_alg_single_rtcp_fullcone': H323 ALG Single RTCP Full-cone Found; 'h323_alg_rtcp_fullcone_mismatch': H323 ALG RTCP Full-cone NAT Port Mismatch; 'h323_alg_reuse_rtp_rtcp_fullcone': H323 ALG Reuse RTP/RTCP Full-cone Session; 'h323_alg_alloc_rtp_rtcp_port_failure': H323 ALG Alloc RTP/RTCP NAT Ports Failure; 'h323_alg_alloc_single_port_failure': H323 ALG Alloc Single RTP or RTCP NAT Port Failure; 'h323_alg_create_single_fullcone_failure': H323 ALG Create Single RTP or RTCP Full-cone Session Failure; 'h323_alg_create_rtp_fullcone_failure': H323 ALG Create RTP Full-cone Session Failure; 'h323_alg_create_rtcp_fullcone_failure': H323 ALG Create RTCP Full-cone Session Failure; 'h323_alg_port_pair_alloc_from_consecutive': H323 ALG Port Pair Allocated From Consecutive; 'h323_alg_port_pair_alloc_from_partition': H323 ALG Port Pair Allocated From Partition; 'h323_alg_port_pair_alloc_from_pool_port_batch': H323 ALG Port Pair Allocated From Pool Port Batch; 'h323_alg_port_pair_alloc_from_quota_consecutive': H323 ALG Port Pair Allocated From Quota Consecutive; 'h323_alg_port_pair_alloc_from_quota_partition': H323 ALG Port Pair Allocated From Quota Partition; 'h323_alg_port_pair_alloc_from_quota_partition_error': H323 ALG Port Pair Allocated From Quota Partition Error; 'h323_alg_port_pair_alloc_from_quota_pool_port_batch': H323 ALG Port Pair Allocated From Quota Pool Port Batch; 'port_batch_quota_extension_alloc_failure': Port Batch Extension Alloc Failure (No memory); 'port_batch_free_quota_not_found': Port

Batch Quota Not Found on Free; 'port_batch_free_port_not_found': Port Batch Port Not Found on Free; 'port_batch_free_wrong_partition': Port Batch Free Wrong Partition; 'radius_query_quota_ext_alloc_failure': RADIUS Query Container Alloc (No Memoty); 'radius_query_quota_ext_alloc_race_free': RADIUS Query Container Alloc Race Free; 'quota_extension_added': Quota Extension Added to Quota; 'quota_extension_removed': Quota Extension Removed from Quota; 'quota_extension_remove_not_found': Quota Extension Not Found on Remove; 'ha_sync_port_batch_sent': HA Port Batch Extension Sync Sent; 'ha_sync_port_batch_rcv': HA Port Batch Extension Sync Received; 'ha_send_port_batch_not_found': HA Port Batch Not Found on Sync Send; 'ha_rcv_port_not_in_port_batch': HA Port Not in Port Batch on Sync Rcv; 'bad_port_to_free': Freeing Bad Port; 'consecutive_port_free': Port Freed from Consecutive Pool; 'partition_port_free': Port Freed from Partition; 'pool_port_batch_port_free': Port Freed from Pool Port Batch; 'port_allocated_from_quota_consecutive': Port Allocated from Quota Consecutive; 'port_allocated_from_quota_partition': Port Allocated from Quota Partition; 'port_allocated_from_quota_pool_port_batch': Port Allocated from Quota Pool Port Batch; 'port_freed_from_quota_consecutive': Port Freed from Quota Consecutive; 'port_freed_from_quota_partition': Port Freed from Quota Partition; 'port_freed_from_quota_pool_port_batch': Port Freed from Quota Pool Port Batch; 'port_batch_allocated_to_quota': Port Batch Allocated to Quota; 'port_batch_freed_from_quota': Port Batch Freed From Quota; 'specific_port_allocated_from_quota_consecutive': Specific Port Allocated from Quota Consecutive;

Type: string

Supported Values: user_quota_not_found, tcp_fullcone_created_shadow, tcp_fullcone_freed_shadow, udp_fullcone_created_shadow, udp_fullcone_freed_shadow, udp_alg_fullcone_created, udp_alg_fullcone_freed, fullcone_created, fullcone_freed, data_session_created_shadow, data_session_freed_shadow, data_session_user_quota_mismatch, extended_quota_mismatched, nat_port_unavailable_other, nat_port_unavailable, new_user_resource_unavailable_tcp, new_user_resource_unavailable_udp, new_user_resource_unavailable_icmp, new_user_resource_unavailable_other, total_tcp_allocated_shadow, total_tcp_freed_shadow, total_udp_allocated_shadow, total_udp_freed_shadow, total_icmp_allocated_shadow, total_icmp_freed_shadow, udp_alg_no_quota, udp_alg_eim_mismatch, udp_alg_no_nat_ip, udp_alg_alloc_failure, sip_alg_no_quota, sip_alg_quota_inc_failure, sip_alg_no_nat_ip, sip_alg_reuse_contact_fullcone, sip_alg_contact_fullcone_mismatch, sip_alg_alloc_contact_port_failure, sip_alg_create_contact_fullcone_failure, sip_alg_release_contact_port_failure, sip_alg_single_rtp_fullcone, sip_alg_single_rtcp_fullcone, sip_alg_rtcp_fullcone_mismatch, sip_alg_reuse_rtp_rtcp_fullcone, sip_alg_alloc_rtp_rtcp_port_failure, sip_alg_alloc_single_port_failure, sip_alg_create_single_fullcone_failure, sip_alg_create_rtp_fullcone_failure, sip_alg_create_rtcp_fullcone_failure, sip_alg_port_pair_alloc_from_consecutive, sip_alg_port_pair_alloc_from_partition, sip_alg_port_pair_alloc_from_pool_port_batch, sip_alg_port_pair_alloc_from_quota_consecutive, sip_alg_port_pair_alloc_from_quota_partition, sip_alg_port_pair_alloc_from_quota_partition_error, sip_alg_port_pair_alloc_from_quota_pool_port_batch, sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag, h323_alg_no_quota, h323_alg_quota_inc_failure, h323_alg_no_nat_ip, h323_alg_reuse_fullcone, h323_alg_fullcone_mismatch, h323_alg_alloc_port_failure, h323_alg_create_fullcone_failure, h323_alg_release_port_failure, h323_alg_single_rtp_fullcone, h323_alg_single_rtcp_fullcone, h323_alg_rtcp_fullcone_mismatch, h323_alg_reuse_rtp_rtcp_fullcone, h323_alg_alloc_rtp_rtcp_port_failure, h323_alg_alloc_single_port_failure, h323_alg_create_single_fullcone_failure, h323_alg_create_rtp_fullcone_failure, h323_alg_create_rtcp_fullcone_failure, h323_alg_port_pair_alloc_from_consecutive,

h323_alg_port_pair_alloc_from_partition, h323_alg_port_pair_alloc_from_pool_port_batch, h323_alg_port_pair_alloc_from_quota_consecutive, h323_alg_port_pair_alloc_from_quota_partition, h323_alg_port_pair_alloc_from_quota_partition_error, h323_alg_port_pair_alloc_from_quota_pool_port_batch, port_batch_quota_extension_alloc_failure, port_batch_free_quota_not_found, port_batch_free_port_not_found, port_batch_free_wrong_partition, radius_query_quota_ext_alloc_failure, radius_query_quota_ext_alloc_race_free, quota_extension_added, quota_extension_removed, quota_extension_remove_not_found, ha_sync_port_batch_sent, ha_sync_port_batch_rcv, ha_send_port_batch_not_found, ha_rcv_port_not_in_port_batch, bad_port_to_free, consecutive_port_free, partition_port_free, pool_port_batch_port_free, port_allocated_from_quota_consecutive, port_allocated_from_quota_partition, port_allocated_from_quota_pool_port_batch, port_freed_from_quota_consecutive, port_freed_from_quota_partition, port_freed_from_quota_pool_port_batch, port_batch_allocated_to_quota, port_batch_freed_from_quota, specific_port_allocated_from_quota_consecutive

counters3

Description 'specific_port_allocated_from_quota_partition': Specific Port Allocated from Quota Partition; 'specific_port_allocated_from_quota_pool_port_batch': Specific Port Allocated from Quota Pool Port Batch; 'port_batch_container_alloc_failure': Port Batch Container Alloc Out of Memory; 'port_batch_container_alloc_race_free': Port Batch Container Race Free; 'port_overloading_destination_conflict': Port Overloading Destination Conflict; 'port_overloading_out_of_memory': Port Overloading Out of Memory; 'port_overloading_assign_user': Port Overloading Port Assign User; 'port_overloading_assign_user_port_batch': Port Overloading Port Assign User Port Batch; 'port_overloading_inc': Port Overloading Port Increment; 'port_overloading_dec_on_conflict': Port Overloading Port Decrement on Conflict; 'port_overloading_dec_on_free': Port Overloading Port Decrement on Free; 'port_overloading_free_port_on_conflict': Port Overloading Free Port on Conflict; 'port_overloading_free_port_batch_on_conflict': Port Overloading Free Port Batch on Conflict; 'port_overloading_inc_overflow': Port Overloading Inc Overflow; 'port_overloading_attempt_consecutive_ports': Port Overloading on Consecutive Ports; 'port_overloading_attempt_same_partition': Port Overloading on Same Partition; 'port_overloading_attempt_diff_partition': Port Overloading on Different Partition; 'port_overloading_attempt_failed': Port Overloading Attempt Failed; 'port_overloading_conn_free_retry_lookup': Port Overloading Conn Free Retry Lookup; 'port_overloading_conn_free_not_found': Port Overloading Conn Free Not Found; 'port_overloading_smp_mem_allocated': Port Overloading SMP Session Allocated; 'port_overloading_smp_mem_freed': Port Overloading SMP Session Freed; 'port_overloading_smp_inserted': Port Overloading SMP Inserted; 'port_overloading_smp_inserted_tcp_shadow': Total Port Overloading SMP TCP Inserted; 'port_overloading_smp_inserted_udp_shadow': Total Port Overloading SMP UDP Inserted; 'port_overloading_smp_free_tcp_shadow': Total Port Overloading SMP TCP Freed; 'port_overloading_smp_free_udp_shadow': Total Port Overloading SMP UDP Freed; 'port_overloading_smp_put_in_del_q_from_conn': Port Overloading SMP Free From Conn; 'port_overloading_smp_free_dec_failure': Port Overloading SMP Free Dec Failure; 'port_overloading_smp_free_no_quota': Port Overloading SMP Free No Quota; 'port_overloading_smp_free_port': Port Overloading SMP Free Port; 'port_overloading_smp_free_port_from_quota': Port Overloading SMP Free Port From Quota; 'port_overloading_for_no_ports': Port Overloading for No Ports; 'port_overloading_for_no_ports_success': Port Overloading for No Ports Success; 'port_overloading_for_quota_exceeded': Port Overloading for Quota Exceeded; 'port_overloading_for_quota_exceeded_success': Port Overloading for Quota Exceeded Success; 'port_overloading_for_quota_exceeded_race': Port Overloading for Quota Exceeded Race; 'port_overloading_for_quota_exceeded_race_success': Port Overloading

for Quota Exceeded Race Success; 'port_overloading_for_new_user': Port Overloading for New User; 'port_overloading_for_new_user_success': Port Overloading for New User Success; 'ha_port_overloading_attempt_failed': HA Port Overloading Attempt Failed; 'ha_port_overloading_for_no_ports': HA Port Overloading for No Ports; 'ha_port_overloading_for_no_ports_success': HA Port Overloading for No Ports Success; 'ha_port_overloading_for_quota_exceeded': HA Port Overloading for Quota Exceeded; 'ha_port_overloading_for_quota_exceeded_success': HA Port Overloading for Quota Exceeded Success; 'ha_port_overloading_for_quota_exceeded_race': HA Port Overloading for Quota Exceeded Race; 'ha_port_overloading_for_quota_exceeded_race_success': HA Port Overloading for Quota Exceeded Race Success; 'ha_port_overloading_for_new_user': HA Port Overloading for New User; 'ha_port_overloading_for_new_user_success': HA Port Overloading for New User Success; 'nat_pool_force_delete': NAT Pool Force Delete; 'quota_ext_too_many': Quota Ext Too Many; 'nat_pool_not_found_on_free': NAT Pool Not Found on Free; 'fullcone_ext_mem_freed': LSN Fullcone Extension Memory Freed; 'fullcone_ext_mem_allocated': LSN Fullcone Extension Memory Allocated; 'fullcone_ext_mem_alloc_failure': LSN Fullcone Extension Memory Allocate Failure; 'fullcone_ext_mem_alloc_init_faulure': LSN Fullcone Extension Initialization Failure; 'fullcone_ext_added': LSN Fullcone Extension Added; 'fullcone_ext_too_many': LSN Fullcone Extension Too Many; 'nat_pool_attempt_adding_multiple_free_batches': Attempt Adding Multiple Free Batches to Quota; 'nat_pool_add_free_batch_failed': Add Batch to Quota Failed; 'mgcp_alg_no_quota': MGCP ALG User-Quota Not Found; 'mgcp_alg_quota_inc_failure': MGCP ALG User-Quota Exceeded; 'mgcp_alg_no_nat_ip': MGCP ALG Unknown NAT IP; 'mgcp_alg_reuse_fullcone': MGCP ALG Reuse Full-cone Session; 'mgcp_alg_fullcone_mismatch': MGCP ALG Full-cone Session Mismatch; 'mgcp_alg_alloc_port_failure': MGCP ALG Alloc NAT Port Failure; 'mgcp_alg_create_fullcone_failure': MGCP ALG Create Full-cone Session Failure; 'mgcp_alg_release_port_failure': MGCP ALG Release NAT Port Failure; 'mgcp_alg_single_rtp_fullcone': MGCP ALG Single RTP Full-cone Found; 'mgcp_alg_single_rtcp_fullcone': MGCP ALG Single RTCP Full-cone Found; 'mgcp_alg_rtcp_fullcone_mismatch': MGCP ALG RTCP Full-cone NAT Port Mismatch; 'mgcp_alg_reuse_rtp_rtcp_fullcone': MGCP ALG Reuse RTP/RTCP Full-cone Session; 'mgcp_alg_alloc_rtp_rtcp_port_failure': MGCP ALG Alloc RTP/RTCP NAT Ports Failure; 'mgcp_alg_alloc_single_port_failure': MGCP ALG Alloc Single RTP or RTCP NAT Port Failure; 'mgcp_alg_create_single_fullcone_failure': MGCP ALG Create Single RTP or RTCP Full-cone Session Failure; 'mgcp_alg_create_rtp_fullcone_failure': MGCP ALG Create RTP Full-cone Session Failure; 'mgcp_alg_create_rtcp_fullcone_failure': MGCP ALG Create RTCP Full-cone Session Failure; 'mgcp_alg_port_pair_alloc_from_consecutive': MGCP ALG Port Pair Allocated From Consecutive; 'mgcp_alg_port_pair_alloc_from_partition': MGCP ALG Port Pair Allocated From Partition; 'mgcp_alg_port_pair_alloc_from_pool_port_batch': MGCP ALG Port Pair Allocated From Pool Port Batch; 'mgcp_alg_port_pair_alloc_from_quota_consecutive': MGCP ALG Port Pair Allocated From Quota Consecutive; 'mgcp_alg_port_pair_alloc_from_quota_partition': MGCP ALG Port Pair Allocated From Quota Partition; 'mgcp_alg_port_pair_alloc_from_quota_partition_error': MGCP ALG Port Pair Allocated From Quota Partition Error; 'mgcp_alg_port_pair_alloc_from_quota_pool_port_batch': MGCP ALG Port Pair Allocated From Quota Pool Port Batch; 'user_quota_unusable_drop': User-Quota Unusable Drop; 'user_quota_unusable': User-Quota Marked Unusable; 'nat_pool_same_port_batch_udp_failed': Simultaneous Batch Allocation UDP Port Allocation Failed; 'cross_cpu_helper_created_eim': EIM Cross CPU Session Helper Created; 'cross_cpu_helper_created_eif': EIF Cross CPU Session Helper Created; 'cross_cpu_helper_created_udp': UDP Cross CPU Session Helper Created; 'cross_cpu_helper_created_tcp': TCP Cross CPU Session Helper Created; 'cross_cpu_helper_created_icmp': ICMP Cross CPU Session Helper Cre-

ated; 'cross_cpu_helper_created_ip': IP Cross CPU Session Helper Created; 'cross_cpu_helper_free_not_found_ip': IP Cross CPU Helper Free Not Found; 'cross_cpu_helper_free_not_found_icmp': ICMP Cross CPU Helper Free Not Found; 'cross_cpu_helper_free_not_found_tcp': TCP Cross CPU Helper Free Not Found; 'cross_cpu_helper_free_not_found_udp': UDP Cross CPU Helper Free Not Found; 'adc_port_allocation_failed': ADC Port Allocation Failed; 'adc_port_allocation_ineligible': ADC Port Allocation Not Allowed;

Type: string

Supported Values: specific_port_allocated_from_quota_partition, specific_port_allocated_from_quota_pool_port_batch, port_batch_container_alloc_failure, port_batch_container_alloc_race_free, port_overloading_destination_conflict, port_overloading_out_of_memory, port_overloading_assign_user, port_overloading_assign_user_port_batch, port_overloading_inc, port_overloading_dec_on_conflict, port_overloading_dec_on_free, port_overloading_free_port_on_conflict, port_overloading_free_port_batch_on_conflict, port_overloading_inc_overflow, port_overloading_attempt_consecutive_ports, port_overloading_attempt_same_partition, port_overloading_attempt_diff_partition, port_overloading_attempt_failed, port_overloading_conn_free_retry_lookup, port_overloading_conn_free_not_found, port_overloading_smp_mem_allocated, port_overloading_smp_mem_freed, port_overloading_smp_inserted, port_overloading_smp_inserted_tcp_shadow, port_overloading_smp_inserted_udp_shadow, port_overloading_smp_free_tcp_shadow, port_overloading_smp_free_udp_shadow, port_overloading_smp_put_in_del_q_from_conn, port_overloading_smp_free_dec_failure, port_overloading_smp_free_no_quota, port_overloading_smp_free_port, port_overloading_smp_free_port_from_quota, port_overloading_for_no_ports, port_overloading_for_no_ports_success, port_overloading_for_quota_exceeded, port_overloading_for_quota_exceeded_success, port_overloading_for_quota_exceeded_race, port_overloading_for_quota_exceeded_race_success, port_overloading_for_new_user, port_overloading_for_new_user_success, ha_port_overloading_attempt_failed, ha_port_overloading_for_no_ports, ha_port_overloading_for_no_ports_success, ha_port_overloading_for_quota_exceeded, ha_port_overloading_for_quota_exceeded_success, ha_port_overloading_for_quota_exceeded_race, ha_port_overloading_for_quota_exceeded_race_success, ha_port_overloading_for_new_user, ha_port_overloading_for_new_user_success, nat_pool_force_delete, quota_ext_too_many, nat_pool_not_found_on_free, fullcone_ext_mem_freed, fullcone_ext_mem_allocated, fullcone_ext_mem_alloc_failure, fullcone_ext_mem_alloc_init_faulure, fullcone_ext_added, fullcone_ext_too_many, nat_pool_attempt_adding_multiple_free_batches, nat_pool_add_free_batch_failed, mgcp_alg_no_quota, mgcp_alg_quota_inc_failure, mgcp_alg_no_nat_ip, mgcp_alg_reuse_fullcone, mgcp_alg_fullcone_mismatch, mgcp_alg_alloc_port_failure, mgcp_alg_create_fullcone_failure, mgcp_alg_release_port_failure, mgcp_alg_single_rtp_fullcone, mgcp_alg_single_rtcp_fullcone, mgcp_alg_rtcp_fullcone_mismatch, mgcp_alg_reuse_rtp_rtcp_fullcone, mgcp_alg_alloc_rtp_rtcp_port_failure, mgcp_alg_alloc_single_port_failure, mgcp_alg_create_single_fullcone_failure, mgcp_alg_create_rtp_fullcone_failure, mgcp_alg_create_rtcp_fullcone_failure, mgcp_alg_port_pair_alloc_from_consecutive, mgcp_alg_port_pair_alloc_from_partition, mgcp_alg_port_pair_alloc_from_pool_port_batch, mgcp_alg_port_pair_alloc_from_quota_consecutive, mgcp_alg_port_pair_alloc_from_quota_partition, mgcp_alg_port_pair_alloc_from_quota_partition_error, mgcp_alg_port_pair_alloc_from_quota_pool_port_batch, user_quota_unusable_drop, user_quota_unusable, nat_pool_same_port_batch_udp_failed, cross_cpu_helper_created_eim, cross_cpu_helper_created_eif, cross_cpu_helper_created_udp, cross_cpu_helper_created_tcp, cross_cpu_helper_created_icmp, cross_cpu_helper_created_ip, cross_cpu_helper_free_not_found_ip, cross_cpu_helper_free_not_found_icmp,

cross_cpu_helper_free_not_found_tcp, cross_cpu_helper_free_not_found_udp, adc_port_allocation_failed, adc_port_allocation_ineligible

counters4

Description 'acl_http_domain_node_exceeded': ACL HTTP Domain Node Exceeded; 'fwd_ingress_packets_tcp': Forward Ingress Packets TCP; 'fwd_egress_packets_tcp': Forward Egress Packets TCP; 'rev_ingress_packets_tcp': Reverse Ingress Packets TCP; 'rev_egress_packets_tcp': Reverse Egress Packets TCP; 'fwd_ingress_bytes_tcp': Forward Ingress Bytes TCP; 'fwd_egress_bytes_tcp': Forward Egress Bytes TCP; 'rev_ingress_bytes_tcp': Reverse Ingress Bytes TCP; 'rev_egress_bytes_tcp': Reverse Egress Bytes TCP; 'fwd_ingress_packets_udp': Forward Ingress Packets UDP; 'fwd_egress_packets_udp': Forward Egress Packets UDP; 'rev_ingress_packets_udp': Reverse Ingress Packets UDP; 'rev_egress_packets_udp': Reverse Egress Packets UDP; 'fwd_ingress_bytes_udp': Forward Ingress Bytes UDP; 'fwd_egress_bytes_udp': Forward Egress Bytes UDP; 'rev_ingress_bytes_udp': Reverse Ingress Bytes UDP; 'rev_egress_bytes_udp': Reverse Egress Bytes UDP; 'fwd_ingress_packets_icmp': Forward Ingress Packets ICMP; 'fwd_egress_packets_icmp': Forward Egress Packets ICMP; 'rev_ingress_packets_icmp': Reverse Ingress Packets ICMP; 'rev_egress_packets_icmp': Reverse Egress Packets ICMP; 'fwd_ingress_bytes_icmp': Forward Ingress Bytes ICMP; 'fwd_egress_bytes_icmp': Forward Egress Bytes ICMP; 'rev_ingress_bytes_icmp': Reverse Ingress Bytes ICMP; 'rev_egress_bytes_icmp': Reverse Egress Bytes ICMP; 'fwd_ingress_packets_others': Forward Ingress Packets OTHERS; 'fwd_egress_packets_others': Forward Egress Packets OTHERS; 'rev_ingress_packets_others': Reverse Ingress Packets OTHERS; 'rev_egress_packets_others': Reverse Egress Packets OTHERS; 'fwd_ingress_bytes_others': Forward Ingress Bytes OTHERS; 'fwd_egress_bytes_others': Forward Egress Bytes OTHERS; 'rev_ingress_bytes_others': Reverse Ingress Bytes OTHERS; 'rev_egress_bytes_others': Reverse Egress Bytes OTHERS; 'fwd_ingress_pkt_size_range1': Forward Ingress Packet size between 0 and 200; 'fwd_ingress_pkt_size_range2': Forward Ingress Packet size between 201 and 800; 'fwd_ingress_pkt_size_range3': Forward Ingress Packet size between 801 and 1550; 'fwd_ingress_pkt_size_range4': Forward Ingress Packet size between 1551 and 9000; 'fwd_egress_pkt_size_range1': Forward Egress Packet size between 0 and 200; 'fwd_egress_pkt_size_range2': Forward Egress Packet size between 201 and 800; 'fwd_egress_pkt_size_range3': Forward Egress Packet size between 801 and 1550; 'fwd_egress_pkt_size_range4': Forward Egress Packet size between 1551 and 9000; 'rev_ingress_pkt_size_range1': Reverse Ingress Packet size between 0 and 200; 'rev_ingress_pkt_size_range2': Reverse Ingress Packet size between 201 and 800; 'rev_ingress_pkt_size_range3': Reverse Ingress Packet size between 801 and 1550; 'rev_ingress_pkt_size_range4': Reverse Ingress Packet size between 1551 and 9000; 'rev_egress_pkt_size_range1': Reverse Egress Packet size between 0 and 200; 'rev_egress_pkt_size_range2': Reverse Egress Packet size between 201 and 800; 'rev_egress_pkt_size_range3': Reverse Egress Packet size between 801 and 1550; 'rev_egress_pkt_size_range4': Reverse Egress Packet size between 1551 and 9000;

Type: string

Supported Values: acl_http_domain_node_exceeded, fwd_ingress_packets_tcp, fwd_egress_packets_tcp, rev_ingress_packets_tcp, rev_egress_packets_tcp, fwd_ingress_bytes_tcp, fwd_egress_bytes_tcp, rev_ingress_bytes_tcp, rev_egress_bytes_tcp, fwd_ingress_packets_udp, fwd_egress_packets_udp, rev_ingress_packets_udp, rev_egress_packets_udp, fwd_ingress_bytes_udp, fwd_egress_bytes_udp, rev_ingress_bytes_udp, rev_egress_bytes_udp, fwd_ingress_packets_icmp, fwd_egress_packets_icmp, rev_ingress_packets_icmp, rev_egress_packets_icmp, fwd_ingress_bytes_icmp, fwd_egress_bytes_icmp, rev_ingress_bytes_icmp, rev_egress_bytes_icmp, fwd_ingress_packets_others, fwd_egress_packets_others,

rev_ingress_packets_others, rev_egress_packets_others, fwd_ingress_bytes_others, fwd_egress_bytes_others, rev_ingress_bytes_others, rev_egress_bytes_others, fwd_ingress_pkt_size_range1, fwd_ingress_pkt_size_range2, fwd_ingress_pkt_size_range3, fwd_ingress_pkt_size_range4, fwd_egress_pkt_size_range1, fwd_egress_pkt_size_range2, fwd_egress_pkt_size_range3, fwd_egress_pkt_size_range4, rev_ingress_pkt_size_range1, rev_ingress_pkt_size_range2, rev_ingress_pkt_size_range3, rev_ingress_pkt_size_range4, rev_egress_pkt_size_range1, rev_egress_pkt_size_range2, rev_egress_pkt_size_range3, rev_egress_pkt_size_range4, port_overloading_port_tcp_inserted, port_overloading_port_udp_inserted, port_overloading_port_free_tcp, port_overloading_port_free_udp, chassis_incorrect_pu

2.26.134 cgnv6 lsn global stats

Statistics for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/lsn/global/stats
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/global/stats

global attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/global/stats

global attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/global/stats

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/global/stats

global attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/global/stats

global attributes

global attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

adc_port_allocation_failed

Description ADC Port Allocation Failed

Type: number

Format: counter

chassis_incorrect_pu

Description chassis incorrect pu

Type: number

Format: counter

data_sesn_rate_user_quota_exceeded

Description Conn Rate User-Quota Exceeded

Type: number

Format: counter

data_sesn_user_quota_exceeded

Description Data Session User-Quota Exceeded

Type: number

Format: counter

data_session_created

Description Data Session Created

Type: number

Format: counter

data_session_freed

Description Data Session Freed

Type: number

Format: counter

eif_limit_exceeded

Description Endpoint-Independent Filtering Inbound Limit Exceeded

Type: number

Format: counter

endpoint_indep_filter_match

Description Endpoint-Independent Filtering Matched

Type: number

Format: counter

endpoint_indep_map_match

Description Endpoint-Independent Mapping Matched

Type: number

Format: counter

extended_quota_exceeded

Description Extended User-Quota Exceeded

Type: number

Format: counter

extended_quota_matched

Description Extended User-Quota Matched

Type: number

Format: counter

fullcone_ext_mem_alloc_failure

Description LSN Fullcone Extension Memory Allocate Failure

Type: number

Format: counter

fullcone_ext_mem_alloc_init_faulure

Description LSN Fullcone Extension Initialization Failure

Type: number

Format: counter

fullcone_failure

Description Full-cone Session Creation Failed

Type: number

Format: counter

fullcone_self_hairpinning_drop

Description Self-Hairpinning Drop

Type: number

Format: counter

fwd_egress_bytes_icmp

Description Forward Egress Bytes ICMP

Type: number

Format: counter

fwd_egress_bytes_others

Description Forward Egress Bytes OTHERS

Type: number

Format: counter

fwd_egress_bytes_tcp

Description Forward Egress Bytes TCP

Type: number

Format: counter

fwd_egress_bytes_udp

Description Forward Egress Bytes UDP

Type: number

Format: counter

fwd_egress_packets_icmp

Description Forward Egress Packets ICMP

Type: number

Format: counter

fwd_egress_packets_others

Description Forward Egress Packets OTHERS

Type: number

Format: counter

fwd_egress_packets_tcp

Description Forward Egress Packets TCP

Type: number

Format: counter

fwd_egress_packets_udp

Description Forward Egress Packets UDP

Type: number

Format: counter

fwd_egress_pkt_size_range1

Description Forward Egress Packet size between 0 and 200

Type: number

Format: counter

fwd_egress_pkt_size_range2

Description Forward Egress Packet size between 201 and 800

Type: number

Format: counter

fwd_egress_pkt_size_range3

Description Forward Egress Packet size between 801 and 1550

Type: number

Format: counter

fwd_egress_pkt_size_range4

Description Forward Egress Packet size between 1551 and 9000

Type: number

Format: counter

fwd_ingress_bytes_icmp

Description Forward Ingress Bytes ICMP

Type: number

Format: counter

fwd_ingress_bytes_others

Description Forward Ingress Bytes OTHERS

Type: number

Format: counter

fwd_ingress_bytes_tcp

Description Forward Ingress Bytes TCP

Type: number

Format: counter

fwd_ingress_bytes_udp

Description Forward Ingress Bytes UDP

Type: number

Format: counter

fwd_ingress_packets_icmp

Description Forward Ingress Packets ICMP

Type: number

Format: counter

fwd_ingress_packets_others

Description Forward Ingress Packets OTHERS

Type: number

Format: counter

fwd_ingress_packets_tcp

Description Forward Ingress Packets TCP

Type: number

Format: counter

fwd_ingress_packets_udp

Description Forward Ingress Packets UDP

Type: number

Format: counter

fwd_ingress_pkt_size_range1

Description Forward Ingress Packet size between 0 and 200

Type: number

Format: counter

fwd_ingress_pkt_size_range2

Description Forward Ingress Packet size between 201 and 800

Type: number

Format: counter

fwd_ingress_pkt_size_range3

Description Forward Ingress Packet size between 801 and 1550

Type: number

Format: counter

fwd_ingress_pkt_size_range4

Description Forward Ingress Packet size between 1551 and 9000

Type: number

Format: counter

h323_alg_alloc_single_port_failure

Description H323 ALG Alloc Single RTP or RTCP NAT Port Failure

Type: number

Format: counter

h323_alg_create_rtcp_fullcone_failure

Description H323 ALG Create RTCP Full-cone Session Failure

Type: number

Format: counter

h323_alg_create_rtp_fullcone_failure

Description H323 ALG Create RTP Full-cone Session Failure

Type: number

Format: counter

h323_alg_create_single_fullcone_failure

Description H323 ALG Create Single RTP or RTCP Full-cone Session Failure

Type: number

Format: counter

ha_nat_pool_batch_type_mismatch

Description HA NAT Pool Batch Type Mismatch

Type: number

Format: counter

ha_nat_pool_unusable

Description HA NAT Pool Unusable

Type: number

Format: counter

hairpin

Description Hairpin Session Created

Type: number

Format: counter

icmp_user_quota_exceeded

Description ICMP User-Quota Exceeded

Type: number

Format: counter

inbound_filtered

Description Endpoint-Dependent Filtering Drop

Type: number

Format: counter

lid_drop

Description LSN LID Drop

Type: number

Format: counter

lid_pass_through

Description LSN LID Pass-through

Type: number

Format: counter

mgcp_alg_create_rtcp_fullcone_failure

Description MGCP ALG Create RTCP Full-cone Session Failure

Type: number

Format: counter

mgcp_alg_create_rtp_fullcone_failure

Description MGCP ALG Create RTP Full-cone Session Failure

Type: number

Format: counter

mgcp_alg_port_pair_alloc_from_quota_partition_error

Description MGCP ALG Port Pair Allocated From Quota Partition Error

Type: number

Format: counter

nat_ip_max_tcp_ports_allocated

Description NAT IP TCP Max Ports Allocated

Type: number

Format: counter

nat_ip_max_udp_ports_allocated

Description NAT IP UDP Max Ports Allocated

Type: number

Format: counter

nat_pool_unusable

Description NAT Pool Unusable

Type: number

Format: counter

nat_port_unavailable_icmp

Description ICMP NAT Port Unavailable

Type: number

Format: counter

nat_port_unavailable_tcp

Description TCP NAT Port Unavailable

Type: number

Format: counter

nat_port_unavailable_udp

Description UDP NAT Port Unavailable

Type: number

Format: counter

new_user_resource_unavailable

Description New User NAT Resource Unavailable

Type: number

Format: counter

no_class_list_match

Description No Class-List Match

Type: number

Format: counter

no_radius_profile_match

Description No RADIUS Profile Match

Type: number

Format: counter

port_overloading_inc_overflow

Description Port Overloading Inc Overflow

Type: number

Format: counter

port_overloading_out_of_memory

Description Port Overloading Out of Memory

Type: number

Format: counter

port_overloading_port_free_tcp

Description TCP Port Overloading NAT Port Freed

Type: number

Format: counter

port_overloading_port_free_udp

Description UDP Port Overloading NAT Port Freed

Type: number

Format: counter

port_overloading_port_tcp_inserted

Description Port Overloading NAT Port TCP Created

Type: number

Format: counter

port_overloading_port_udp_inserted

Description Port Overloading NAT Port UDP Created

Type: number

Format: counter

port_overloading_smp_free_tcp

Description TCP Port Overloading Session Freed

Type: number

Format: counter

port_overloading_smp_free_udp

Description UDP Port Overloading Session Freed

Type: number

Format: counter

port_overloading_smp_inserted_tcp

Description TCP Port Overloading Session Created

Type: number

Format: counter

port_overloading_smp_inserted_udp

Description UDP Port Overloading Session Created

Type: number

Format: counter

rev_egress_bytes_icmp

Description Reverse Egress Bytes ICMP

Type: number

Format: counter

rev_egress_bytes_others

Description Reverse Egress Bytes OTHERS

Type: number

Format: counter

rev_egress_bytes_tcp

Description Reverse Egress Bytes TCP

Type: number

Format: counter

rev_egress_bytes_udp

Description Reverse Egress Bytes UDP

Type: number

Format: counter

rev_egress_packets_icmp

Description Reverse Egress Packets ICMP

Type: number

Format: counter

rev_egress_packets_others

Description Reverse Egress Packets OTHERS

Type: number

Format: counter

rev_egress_packets_tcp

Description Reverse Egress Packets TCP

Type: number

Format: counter

rev_egress_packets_udp

Description Reverse Egress Packets UDP

Type: number

Format: counter

rev_egress_pkt_size_range1

Description Reverse Egress Packet size between 0 and 200

Type: number

Format: counter

rev_egress_pkt_size_range2

Description Reverse Egress Packet size between 201 and 800

Type: number

Format: counter

rev_egress_pkt_size_range3

Description Reverse Egress Packet size between 801 and 1550

Type: number

Format: counter

rev_egress_pkt_size_range4

Description Reverse Egress Packet size between 1551 and 9000

Type: number

Format: counter

rev_ingress_bytes_icmp

Description Reverse Ingress Bytes ICMP

Type: number

Format: counter

rev_ingress_bytes_others

Description Reverse Ingress Bytes OTHERS

Type: number

Format: counter

rev_ingress_bytes_tcp

Description Reverse Ingress Bytes TCP

Type: number

Format: counter

rev_ingress_bytes_udp

Description Reverse Ingress Bytes UDP

Type: number

Format: counter

rev_ingress_packets_icmp

Description Reverse Ingress Packets ICMP

Type: number

Format: counter

rev_ingress_packets_others

Description Reverse Ingress Packets OTHERS

Type: number

Format: counter

rev_ingress_packets_tcp

Description Reverse Ingress Packets TCP

Type: number

Format: counter

rev_ingress_packets_udp

Description Reverse Ingress Packets UDP

Type: number

Format: counter

rev_ingress_pkt_size_range1

Description Reverse Ingress Packet size between 0 and 200

Type: number

Format: counter

rev_ingress_pkt_size_range2

Description Reverse Ingress Packet size between 201 and 800

Type: number

Format: counter

rev_ingress_pkt_size_range3

Description Reverse Ingress Packet size between 801 and 1550

Type: number

Format: counter

rev_ingress_pkt_size_range4

Description Reverse Ingress Packet size between 1551 and 9000

Type: number

Format: counter

sip_alg_alloc_rtp_rtcp_port_failure

Description SIP ALG Alloc RTP/RTCP NAT Ports Failure

Type: number

Format: counter

sip_alg_alloc_single_port_failure

Description SIP ALG Alloc Single RTP or RTCP NAT Port Failure

Type: number

Format: counter

sip_alg_create_rtcp_fullcone_failure

Description SIP ALG Create RTCP Full-cone Session Failure

Type: number

Format: counter

sip_alg_create_rtp_fullcone_failure

Description SIP ALG Create RTP Full-cone Session Failure

Type: number

Format: counter

sip_alg_create_single_fullcone_failure

Description SIP ALG Create Single RTP or RTCP Full-cone Session Failure

Type: number

Format: counter

sip_alg_quota_inc_failure

Description SIP ALG User-Quota Exceeded

Type: number

Format: counter

standby_class_list_drop

Description HA Standby Class-List drop

Type: number

Format: counter

tcp_fullcone_created

Description TCP Full-cone Session Created

Type: number

Format: counter

tcp_fullcone_freed

Description TCP Full-cone Session Freed

Type: number

Format: counter

tcp_user_quota_exceeded

Description TCP User-Quota Exceeded

Type: number

Format: counter

total_icmp_allocated

Description Total ICMP Ports Allocated

Type: number

Format: counter

total_icmp_freed

Description Total ICMP Ports Freed

Type: number

Format: counter

total_tcp_allocated

Description Total TCP Ports Allocated

Type: number

Format: counter

total_tcp_freed

Description Total TCP Ports Freed

Type: number

Format: counter

total_tcp_overloaded

Description TCP Port Overloaded

Type: number

Format: counter

total_udp_allocated

Description Total UDP Ports Allocated

Type: number

Format: counter

total_udp_freed

Description Total UDP Ports Freed

Type: number

Format: counter

total_udp_overloaded

Description UDP Port Overloaded

Type: number

Format: counter

udp_fullcone_created

Description UDP Full-cone Session Created

Type: number

Format: counter

udp_fullcone_freed

Description UDP Full-cone Session Freed

Type: number

Format: counter

udp_user_quota_exceeded

Description UDP User-Quota Exceeded

Type: number

Format: counter

user_quota_created

Description User-Quota Created

Type: number

Format: counter

user_quota_failure

Description User-Quota Creation Failed

Type: number

Format: counter

user_quota_put_in_del_q

Description User-Quota Freed

Type: number

Format: counter

user_quota_unusable

Description User-Quota Marked Unusable

Type: number

Format: counter

user_quota_unusable_drop

Description User-Quota Unusable Drop

Type: number

Format: counter

2.26.135 cgnv6 lsn health-check-gateway

Configure LSN health-check gateway

health-check-gateway Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ipv4-addr, ipv6-addr*
Collection Name	*health-check-gateway-list*
Collection URI	/axapi/v3/cgnv6/lsn/health-check-gateway
Element Name	health-check-gateway
Element URI	/axapi/v3/cgnv6/lsn/health-check-gateway/{ipv4-addr}+{ipv6-addr}
Element Attributes	health-check-gateway_attributes
Partition Visibility	shared
Schema	`health-check-gateway schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/health-check-gateway

health-check-gateway attributes

```
POST /axapi/v3/cgnv6/lsn/health-check-gateway/
Payload:
{
    "health-check-gateway": {
        "ipv4-addr": "3.3.3.3"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/lsn/health-check-gateway

health-check-gateway attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/health-check-gateway/{ipv4-addr}+{ipv6-addr}

health-check-gateway attributes

```
GET /axapi/v3/cgnv6/lsn/health-check-gateway/3.3.3.3
Reponse:
{
    "health-check-gateway": {
```

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```
        "ipv4-addr": "3.3.3.3",
        "uuid": "090dfb66-08a1-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/health-check-gateway/3.3.3.3"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/lsn/health-check-gateway

health-check-gateway-list

Modify Object

POST

/axapi/v3/cgnv6/lsn/health-check-gateway/{ipv4-addr}+{ipv6-addr}

health-check-gateway attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/health-check-gateway/{ipv4-addr}+{ipv6-addr}

health-check-gateway attributes

```
PUT /axapi/v3/cgnv6/lsn/health-check-gateway/3.3.3.3
Payload:
{
    "health-check-gateway": {
        "ipv4-addr": "3.3.3.3"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/lsn/health-check-gateway

health-check-gateway-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/health-check-gateway/{ipv4-addr}+{ipv6-addr}

health-check-gateway attributes

```
DELETE /axapi/v3/cgnv6/lsn/health-check-gateway/3.3.3.3
Reponse:
{
    "response": {
        "http-status": 200,
```

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```
        "status": "OK",
        "msg": "Success"
    }
}
```

health-check-gateway-list

health-check-gateway-list is **JSON List** of *health-check-gateway attributes*

health-check-gateway-list : [

{ *health-check-gateway attributes* },

{ *health-check-gateway attributes* },

...

]

health-check-gateway attributes

ipv4-addr

Description Specify IPv4 Gateway

Type: string

Format: ipv4-address

Mutual Exclusion: ipv4-addr and ipv6-addr are mutually exclusive

ipv6-addr

Description Specify IPv6 Gateway

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-addr and ipv4-addr are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.136 cgnv6 lsn hw-accelerate

LSN HW accelerate counters

hw-accelerate Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	hw-accelerate
Element URI	/axapi/v3/cgnv6/lsn/hw-accelerate
Element Attributes	hw-accelerate_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn/hw-accelerate/stats
Schema	`hw-accelerate schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/hw-accelerate

hw-accelerate attributes

```
POST /axapi/v3/cgnv6/lsn/hw-accelerate
Payload:
{
    "hw-accelerate": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/hw-accelerate

hw-accelerate attributes

```
GET /axapi/v3/cgnv6/lsn/hw-accelerate
Reponse:
{
    "hw-accelerate": {
        "uuid": "c5ed19bc-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
```

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```
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/lsn/hw-accelerate"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/hw-accelerate

hw-accelerate attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/hw-accelerate

hw-accelerate attributes

```
PUT /axapi/v3/cgnv6/lsn/hw-accelerate
Payload:
{
    "hw-accelerate": {
        "sampling-enable": [
            {
                "counters1": "entry-create"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/hw-accelerate

hw-accelerate attributes

```
DELETE /axapi/v3/cgnv6/lsn/hw-accelerate
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

hw-accelerate attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'entry-create': HW Entries Created; 'entry-create-failure': HW Entry Creation Failed; 'entry-create-fail-server-down': HW Entry Creation Failed - server down; 'entry-create-fail-max-entry': HW Entry Creation Failed - max entries exceeded; 'entry-free': HW Entries Freed; 'entry-free-opp-entry': HW Entries Freed - opposite tuple entry aged-out; 'entry-free-no-hw-prog': HW Entry Freed - no HW prog; 'entry-free-no-conn': HW Entry Freed - no matched conn; 'entry-free-no-sw-entry': HW Entry Freed - no software entry; 'entry-counter': HW Entries Count; 'entry-age-out': HW Entries Aged Out; 'entry-age-out-idle': HW Entries Aged Out - idle timeout; 'entry-age-out-tcp-fin': HW Entries Aged Out - TCP FIN; 'entry-age-out-tcp-rst': HW Entries Aged Out - TCP RST; 'entry-age-out-invalid-dst': HW Entries Aged Out - invalid dst; 'entry-force-hw-invalidate': HW Entries Force HW Invalidate; 'entry-invalidate-server-down': HW Entries Invalidate due to server down; 'tcam-create': TCAM Flows Created; 'tcam-free': TCAM Flows Freed; 'tcam-counter': TCAM Flow Count;

Type: string

Supported Values: all, entry-create, entry-create-failure, entry-create-fail-server-down, entry-create-fail-max-entry, entry-free, entry-free-opp-entry, entry-free-no-hw-prog, entry-free-no-conn, entry-free-no-sw-entry, entry-counter, entry-age-out, entry-age-out-idle, entry-age-out-tcp-fin, entry-age-out-tcp-rst, entry-age-out-invalid-dst, entry-force-hw-invalidate, entry-invalidate-server-down, tcam-create, tcam-free, tcam-counter

2.26.137 cgnv6 lsn hw-accelerate stats

Statistics for the object hw-accelerate

hw-accelerate Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	hw-accelerate
Element URI	/axapi/v3/cgnv6/lsn/hw-accelerate/stats
Element Attributes	hw-accelerate_attributes
Partition Visibility	None
Schema	`hw-accelerate schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/hw-accelerate/stats

hw-accelerate attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/hw-accelerate/stats

hw-accelerate attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/hw-accelerate/stats

hw-accelerate attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/hw-accelerate/stats

hw-accelerate attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/hw-accelerate/stats

hw-accelerate attributes

hw-accelerate attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

entry-age-out

Description HW Entries Aged Out

Type: number

Format: counter

entry-age-out-idle

Description HW Entries Aged Out - idle timeout

Type: number

Format: counter

entry-age-out-invalid-dst

Description HW Entries Aged Out - invalid dst

Type: number

Format: counter

entry-age-out-tcp-fin

Description HW Entries Aged Out - TCP FIN

Type: number

Format: counter

entry-age-out-tcp-rst

Description HW Entries Aged Out - TCP RST

Type: number

Format: counter

entry-counter

Description HW Entries Count

Type: number

Format: counter

entry-create

Description HW Entries Created

Type: number

Format: counter

entry-create-fail-max-entry

Description HW Entry Creation Failed - max entries exceeded

Type: number

Format: counter

entry-create-fail-server-down

Description HW Entry Creation Failed - server down

Type: number

Format: counter

entry-create-failure

Description HW Entry Creation Failed

Type: number

Format: counter

entry-force-hw-invalidate

Description HW Entries Force HW Invalidate

Type: number

Format: counter

entry-free

Description HW Entries Freed

Type: number

Format: counter

entry-free-no-conn

Description HW Entry Freed - no matched conn

Type: number

Format: counter

entry-free-no-hw-prog

Description HW Entry Freed - no HW prog

Type: number

Format: counter

entry-free-no-sw-entry

Description HW Entry Freed - no software entry

Type: number

Format: counter

entry-free-opp-entry

Description HW Entries Freed - opposite tuple entry aged-out

Type: number

Format: counter

entry-invalidate-server-down

Description HW Entries Invalidate due to server down

Type: number

Format: counter

tcam-counter

Description TCAM Flow Count

Type: number

Format: counter

tcam-create

Description TCAM Flows Created

Type: number

Format: counter

tcam-free

Description TCAM Flows Freed

Type: number

Format: counter

2.26.138 cgnv6 lsn inside

Inside configuration for LSN

inside Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	inside
Element URI	/axapi/v3/cgnv6/lsn/inside
Element Attributes	inside_attributes
Partition Visibility	shared
Schema	`inside schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/lsn/inside

inside_attributes

inside attributes

source

Description: source is a **JSON Block**. Please see below for *source*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/inside/source*

source

Specification	Value
Type	*object*

class-list

Description Class List (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.139 cgnv6 lsn inside source

Source

source Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	source
Element URI	/axapi/v3/cgnv6/lsn/inside/source
Element Attributes	source_attributes
Partition Visibility	shared
Schema	`source schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/inside/source

source attributes

```
POST /axapi/v3/cgnv6/lsn/inside/source
Payload:
{
    "source": {
        "class-list": "a"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/inside/source

source attributes

```
GET /axapi/v3/cgnv6/lsn/inside/source
Reponse:
{
    "source": {
        "class-list": "a",
        "uuid": "462c6dfc-08a1-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/inside/source"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/inside/source

source attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/inside/source

source attributes

```
PUT /axapi/v3/cgnv6/lsn/inside/source
Payload:
{
    "source": {
        "class-list": "a"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/inside/source

source attributes

```
DELETE /axapi/v3/cgnv6/lsn/inside/source
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

source attributes

class-list

Description Class List (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.140 cgnv6 lsn-lid

Create an LSN Lid

lsn-lid Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*lid-number*
Collection Name	*lsn-lid-list*
Collection URI	/axapi/v3/cgnv6/lsn-lid
Element Name	lsn-lid
Element URI	/axapi/v3/cgnv6/lsn-lid/{lid-number}
Element Attributes	lsn-lid_attributes
Partition Visibility	shared
Schema	`lsn-lid schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-lid

lsn-lid attributes

```
POST /axapi/v3/cgnv6/lsn-lid/
Payload:
{
    "lsn-lid": {
        "lid-number": 1,
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/lsn-lid

lsn-lid attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-lid/{lid-number}

lsn-lid attributes

```
GET /axapi/v3/cgnv6/lsn-lid/1
Reponse:
{
    "lsn-lid": {
        "lid-number": 1,
        "respond-to-user-mac": 0,
        "override": "none",
        "uuid": "6221d8a8-08a1-11f0-951d-a9cf5715f49c",
```

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```
        "user-tag": "a",
        "a10-url": "/axapi/v3/cgnv6/lsn-lid/1"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/lsn-lid

lsn-lid-list

Modify Object

POST

/axapi/v3/cgnv6/lsn-lid/{lid-number}

lsn-lid attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-lid/{lid-number}

lsn-lid attributes

```
PUT /axapi/v3/cgnv6/lsn-lid/1
Payload:
{
    "lsn-lid": {
        "lid-number": 1,
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/lsn-lid

lsn-lid-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-lid/{lid-number}

lsn-lid attributes

```
DELETE /axapi/v3/cgnv6/lsn-lid/1
Reponse:
{
    "response": {
        "http-status": 200,
```

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```
        "status": "OK",
        "msg": "Success"
    }
}
```

lsn-lid-list

lsn-lid-list is **JSON List** of *lsn-lid attributes*

lsn-lid-list : [

{ *lsn-lid attributes* },

{ *lsn-lid attributes* },

...

]

lsn-lid attributes

conn-rate-limit

Description: conn-rate-limit is a **JSON Block**. Please see below for *conn-rate-limit*

Type: Object

ds-lite

Description: ds-lite is a **JSON Block**. Please see below for *ds-lite*

Type: Object

extended-user-quota

Description: extended-user-quota is a **JSON Block**. Please see below for *extended-user-quota*

Type: Object

lid-number

Description LSN Lid

Type: number

Range: 1-1023

lsn-rule-list

Description: lsn-rule-list is a **JSON Block**. Please see below for *lsn-rule-list*

Type: Object

name

Description LSN Lid Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

override

Description 'none': Apply source NAT if configured (default); 'drop': Drop packets that match this LSN lid; 'pass-through': Layer-3 route packets that match this LSN lid and do not apply source NAT;

Type: string

Supported Values: none, drop, pass-through

Default: none

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-nat-pool

Description: source-nat-pool is a **JSON Block**. Please see below for *source-nat-pool*

Type: Object

user-quota

Description: user-quota is a **JSON Block**. Please see below for *user-quota*

Type: Object

user-quota-prefix-length

Description NAT64/DS-Lite user quota prefix length (Prefix Length (Default: Uses the global NAT64/DS-Lite configured value))

Type: number

Range: 1-128

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

extended-user-quota

Specification	Value
Type	*object*

tcp

Type: List

udp

Type: List

extended-user-quota_udp

Specification	Value
Type	*list*
Block object keys	

udp-service-port

Description Port (Port Value)

Type: number

Range: 1-65535

udp-sessions

Description Number of Extended Quota sessions allowed for this service

Type: number

Range: 1-255

extended-user-quota_tcp

Specification	Value
Type	*list*
Block object keys	

tcp-service-port

Description Port (Port Value)

Type: number

Range: 1-65535

tcp-sessions

Description Number of Extended Quota sessions allowed for this service

Type: number

Range: 1-255

ds-lite

Specification	Value
Type	*object*

inside-src-permit-list

Description Class-List of IPv4 addresses permitted (Class-list to match for DS-Lite)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-quota

Specification	Value
Type	*object*

icmp

Description User Quota for ICMP identifiers (NAT port quota per user (default: not configured))

Type: number

Range: 1-64000

quota-tcp

Description: quota-tcp is a **JSON Block**. Please see below for *user-quota_quota-tcp*

Type: Object

quota-udp

Description: quota-udp is a **JSON Block**. Please see below for *user-quota_quota-udp*

Type: Object

session

Description User Quota for number of data sessions

Type: number

Range: 1-2147483647

session-tcp

Description User Quota for number of TCP sessions

Type: number

Range: 1-2147483647

session-udp

Description User Quota for number of UDP sessions

Type: number

Range: 1-2147483647

user-quota_quota-udp

Specification	Value
Type	*object*

udp-quota

Description NAT port quota per user (default: not configured)

Type: number

Range: 1-64000

udp-reserve

Description Number of ports to reserve per user (default: same as user-quota value) (Reserved quota per user (default: same as user-quota value))

Type: number

Range: 0-64000

user-quota_quota-tcp

Specification	Value
Type	*object*

tcp-quota

Description NAT port quota per user (default: not configured)

Type: number

Range: 1-64000

tcp-reserve

Description Number of ports to reserve per user (default: same as user-quota value) (Reserved quota per user (default: same as user-quota value))

Type: number

Range: 0-64000

source-nat-pool

Specification	Value
Type	*object*

pool-name

Description Source NAT Pool or Pool-Group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description Use a shared source NAT pool or pool-group

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

conn-rate-limit

Specification	Value
Type	*object*

conn-rate-limit-val

Description Maximum connections per second (Default: No limit)

Type: number

Range: 1-65535

lsn-rule-list

Specification	Value
Type	*object*

destination

Description Apply LSN Rule-List on Destination (LSN Rule-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/lsn-rule-list*

2.26.141 cgnv6 lsn per-instance

Dynamic LSN per VRID/UserGroup counters

per-instance Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	per-instance
Element URI	/axapi/v3/cgnv6/lsn/per-instance
Element Attributes	per-instance_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn/per-instance/stats
Schema	`per-instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/per-instance

per-instance attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/per-instance

per-instance attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/per-instance

per-instance attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/per-instance

per-instance attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/per-instance

per-instance attributes

per-instance attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.142 cgnv6 lsn per-instance stats

Statistics for the object per-instance

per-instance Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	per-instance
Element URI	/axapi/v3/cgnv6/lsn/per-instance/stats
Element Attributes	per-instance_attributes
Partition Visibility	None
Schema	`per-instance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/per-instance/stats

per-instance attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/per-instance/stats

per-instance attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/per-instance/stats

per-instance attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/per-instance/stats

per-instance attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/per-instance/stats

per-instance attributes

per-instance attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

data_session_created

Description Data Session Created

Type: number

Format: counter

data_session_freed

Description Data Session Freed

Type: number

Format: counter

icmp_allocated

Description ICMP Ports Allocated

Type: number

Format: counter

icmp_freed

Description ICMP Ports Freed

Type: number

Format: counter

key-name

Description

Type: string

Format: counter

tcp_allocated

Description TCP Ports Allocated

Type: number

Format: counter

tcp_freed

Description TCP Ports Freed

Type: number

Format: counter

tcp_fullcone_created

Description TCP Full-cone Session Created

Type: number

Format: counter

tcp_fullcone_freed

Description TCP Full-cone Session Freed

Type: number

Format: counter

udp_allocated

Description UDP Ports Allocated

Type: number

Format: counter

udp_freed

Description UDP Ports Freed

Type: number

Format: counter

udp_fullcone_created

Description UDP Full-cone Session Created

Type: number

Format: counter

udp_fullcone_freed

Description UDP Full-cone Session Freed

Type: number

Format: counter

user_quota_created

Description User-Quota Created

Type: number

Format: counter

user_quota_put_in_del_q

Description User-Quota Freed

Type: number

Format: counter

2.26.143 cgnv6 lsn performance

Large-Scale NAT performance statistics

performance Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	performance
Element URI	/axapi/v3/cgnv6/lsn/performance
Element Attributes	performance_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn/performance/stats
Operational Data URI	/axapi/v3/cgnv6/lsn/performance/oper
Schema	`performance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/performance

performance attributes

```
POST /axapi/v3/cgnv6/lsn/performance
Payload:
{
    "performance": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/performance

performance attributes

```
GET /axapi/v3/cgnv6/lsn/performance
Reponse:
{
    "performance": {
        "uuid": "c5ecff18-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/lsn/performance"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/performance

performance attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/performance

performance attributes

```
PUT /axapi/v3/cgnv6/lsn/performance
Payload:
{
    "performance": {
        "sampling-enable": [
            {
                "counters1": "data-sessions-current-epoch"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/performance

performance attributes

```
DELETE /axapi/v3/cgnv6/lsn/performance
Reponse:
{
    "response": {
        "http-status": 200,
```

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```
        "status": "OK",
        "msg": "Success"
    }
}
```

performance attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'data-sessions-current-epoch': some help string; 'fullcone-created-current-epoch': some help string; 'user-quote-created-current-epoch': some help string; 'data-sessions-previous-epoch-first': some help string; 'fullcone-created-previous-epoch-first': some help string; 'user-quote-created-previous-epoch-first': some help string; 'data-sessions-previous-epoch-last': some help string; 'fullcone-created-previous-epoch-last': some help string; 'user-quote-created-previous-epoch-last': some help string;

Type: string

Supported Values: all, data-sessions-current-epoch, fullcone-created-current-epoch, user-quote-created-current-epoch, data-sessions-previous-epoch-first, fullcone-created-previous-epoch-first, user-quote-created-previous-epoch-first, data-sessions-previous-epoch-last, fullcone-created-previous-epoch-last, user-quote-created-previous-epoch-last

2.26.144 cgnv6 lsn performance oper

Operational Status for the object performance

performance Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	performance
Element URI	/axapi/v3/cgnv6/lsn/performance/oper
Element Attributes	performance_attributes
Partition Visibility	None
Schema	`performance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/performance/oper

performance attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/performance/oper

performance attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/performance/oper

performance attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/performance/oper

performance attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/performance/oper

performance attributes

performance attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

data-sessions

Description

Type: number

full-cone-sessions

Description

Type: number

user-quotas

Description

Type: number

2.26.145 cgnv6 lsn performance stats

Statistics for the object performance

performance Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	performance
Element URI	/axapi/v3/cgnv6/lsn/performance/stats
Element Attributes	performance_attributes
Partition Visibility	None
Schema	`performance schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/performance/stats

performance attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/performance/stats

performance attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/performance/stats

performance attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/performance/stats

performance attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/performance/stats

performance attributes

performance attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

data-sessions-current-epoch

Description some help string

Type: number

Format: counter

data-sessions-previous-epoch-first

Description some help string

Type: number

Format: counter

data-sessions-previous-epoch-last

Description some help string

Type: number

Format: counter

fullcone-created-current-epoch

Description some help string

Type: number

Format: counter

fullcone-created-previous-epoch-first

Description some help string

Type: number

Format: counter

fullcone-created-previous-epoch-last

Description some help string

Type: number

Format: counter

user-quote-created-current-epoch

Description some help string

Type: number

Format: counter

user-quote-created-previous-epoch-first

Description some help string

Type: number

Format: counter

user-quote-created-previous-epoch-last

Description some help string

Type: number

Format: counter

2.26.146 cgnv6 lsn port-overloading

Configure Port-Overloading Behavior (default: disabled)

port-overloading Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	port-overloading
Element URI	/axapi/v3/cgnv6/lsn/port-overloading
Element Attributes	port-overloading_attributes
Partition Visibility	shared
Schema	`port-overloading schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/lsn/port-overloading

port-overloading_attributes

port-overloading attributes

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading/global*

port-overloading-status

Description: port-overloading-status is a **JSON Block**. Please see below for *port-overloading-status*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status*

tcp

Description: tcp is a **JSON Block**. Please see below for *tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/port-overloading/udp*

port-overloading-status

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

udp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

global

Specification	Value
Type	*object*

allow-different-user

Description Allow different users to overload the same port (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

unique

Description 'destination-address': Allow overloading when the destination addresses is unique; 'destination-address-and-port': Allow overloading when the destination address and port 2-tuple is unique (default);

Type: string

Supported Values: destination-address, destination-address-and-port

Default: destination-address-and-port

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.147 cgnv6 lsn port-overloading global

Configure Port-Overloading Behavior

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/lsn/port-overloading/global
Element Attributes	global_attributes
Partition Visibility	shared
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/port-overloading/global

global attributes

```
POST /axapi/v3/cgnv6/lsn/port-overloading/global
Payload:
{
    "global": {
        "allow-different-user": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/port-overloading/global

global attributes

```
GET /axapi/v3/cgnv6/lsn/port-overloading/global
Reponse:
{
    "global": {
        "allow-different-user": 1,
        "unique": "destination-address-and-port",
        "uuid": "c5ed152a-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/port-overloading/global"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/port-overloading/global

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/port-overloading/global

global attributes

```
PUT /axapi/v3/cgnv6/lsn/port-overloading/global
Payload:
{
    "global": {
        "allow-different-user": 0
```

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```
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/port-overloading/global

global attributes

```
DELETE /axapi/v3/cgnv6/lsn/port-overloading/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

global attributes

allow-different-user

Description Allow different users to overload the same port (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

unique

Description 'destination-address': Allow overloading when the destination addresses is unique; 'destination-address-and-port': Allow overloading when the destination address and port 2-tuple is unique (default);

Type: string

Supported Values: destination-address, destination-address-and-port

Default: destination-address-and-port

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.148 cgnv6 lsn port-overloading port-overloading-status

Show port-overloading-status

port-overloading-status Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-overloading-status
Element URI	/axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status
Element Attributes	port-overloading-status_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status/oper
Schema	`port-overloading-status schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status

port-overloading-status attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status

port-overloading-status attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status

port-overloading-status attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status

port-overloading-status attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status

port-overloading-status attributes

port-overloading-status attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.149 cgnv6 lsn port-overloading port-overloading-status oper

Operational Status for the object port-overloading-status

port-overloading-status Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-overloading-status
Element URI	/axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status/oper
Element Attributes	port-overloading-status_attributes
Partition Visibility	None
Schema	`port-overloading-status schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status/oper

port-overloading-status attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status/oper

port-overloading-status attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status/oper

port-overloading-status attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status/oper

port-overloading-status attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/port-overloading/port-overloading-status/oper

port-overloading-status attributes

port-overloading-status attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

tcp-list

Description: tcp-list is a **JSON Block**. Please see below for *oper_tcp-list*

Type: Object

udp-list

Description: udp-list is a **JSON Block**. Please see below for *oper_udp-list*

Type: Object

unique

Description

Type: string

oper_udp-list

Specification	Value
Type	*object*

end-port-udp

Description

Type: number

start-port-udp

Description

Type: number

status-udp

Description

Type: string

oper_tcp-list

Specification	Value
Type	*object*

end-port-tcp

Description

Type: number

start-port-tcp

Description

Type: number

status-tcp

Description

Type: string

2.26.150 cgnv6 lsn port-overloading tcp

Set behavior for TCP only

tcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tcp
Element URI	/axapi/v3/cgnv6/lsn/port-overloading/tcp
Element Attributes	tcp_attributes
Partition Visibility	shared
Schema	`tcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/port-overloading/tcp

tcp attributes

```
POST /axapi/v3/cgnv6/lsn/port-overloading/tcp
Payload:
{
    "tcp": {
        "port-list": [
            {
                "port": 1,
```

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```
                "port-end": 1
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/port-overloading/tcp

tcp attributes

```
GET /axapi/v3/cgnv6/lsn/port-overloading/tcp
Reponse:
{
    "tcp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
            }
        ],
        "uuid": "6213cb7c-08a2-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/port-overloading/tcp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/port-overloading/tcp

tcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/port-overloading/tcp

tcp attributes

```
PUT /axapi/v3/cgnv6/lsn/port-overloading/tcp
Payload:
{
    "tcp": {
        "port-list": [
            {
                "port": 2,
                "port-end": 2
            }
        ]
```

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```
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/port-overloading/tcp

tcp attributes

```
DELETE /axapi/v3/cgnv6/lsn/port-overloading/tcp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Please save your configuration and reload or reboot for it to take␣
↪effect\n"
    }
}
```

tcp attributes

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.151 cgnv6 lsn port-overloading udp

Set behavior for UDP only

udp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	udp
Element URI	/axapi/v3/cgnv6/lsn/port-overloading/udp
Element Attributes	udp_attributes
Partition Visibility	shared
Schema	`udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/port-overloading/udp

udp attributes

```
POST /axapi/v3/cgnv6/lsn/port-overloading/udp
Payload:
{
    "udp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/port-overloading/udp

udp attributes

```
GET /axapi/v3/cgnv6/lsn/port-overloading/udp
Reponse:
{
    "udp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
```

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```
            }
        ],
        "uuid": "7e7536b6-08a2-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/port-overloading/udp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/port-overloading/udp

udp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/port-overloading/udp

udp attributes

```
PUT /axapi/v3/cgnv6/lsn/port-overloading/udp
Payload:
{
    "udp": {
        "port-list": [
            {
                "port": 2,
                "port-end": 2
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/port-overloading/udp

udp attributes

```
DELETE /axapi/v3/cgnv6/lsn/port-overloading/udp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Please save your configuration and reload or reboot for it to take␣
↪effect\n"
    }
}
```

udp attributes

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.152 cgnv6 lsn port-reservation

Set Port Reservations

port-reservation Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*inside, inside-port-start, inside-port-end, nat, nat-port-start, nat-port-end*
Collection Name	*port-reservation-list*
Collection URI	/axapi/v3/cgnv6/lsn/port-reservation
Element Name	port-reservation
Element URI	/axapi/v3/cgnv6/lsn/port-reservation/{inside}+{inside-port-start}+{inside-port-end}+{nat}+{nat-port-start}+{nat-port-end}
Element Attributes	port-reservation_attributes
Partition Visibility	shared
Schema	`port-reservation schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/port-reservation

port-reservation attributes

```
POST /axapi/v3/cgnv6/lsn/port-reservation/
Payload:
{
    "port-reservation": {
        "inside-port-start": 1,
        "nat-port-start": 3,
        "inside-port-end": 2,
        "inside": "3.3.3.3",
        "nat": "99.1.1.1",
        "nat-port-end": 4
    }
}
```

Create List

POST

/axapi/v3/cgnv6/lsn/port-reservation

port-reservation attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/port-reservation/{inside}+{inside-port-start}+{inside-port-end}+{nat}+{nat-port-start}+{nat-port-end}

port-reservation attributes

```
GET /axapi/v3/cgnv6/lsn/port-reservation/3.3.3.3+1+2+99.1.1.1+3+4
Reponse:
{
    "port-reservation": {
        "inside": "3.3.3.3",
        "inside-port-start": 1,
        "inside-port-end": 2,
        "nat": "99.1.1.1",
        "nat-port-start": 3,
        "nat-port-end": 4,
        "uuid": "9a242c50-08a2-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/port-reservation/3.3.3.3+1+2+99.1.1.1+3+4"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/lsn/port-reservation

port-reservation-list

Modify Object

POST

/axapi/v3/cgnv6/lsn/port-reservation/{inside}+{inside-port-start}+{inside-port-end}+{nat}+{nat-port-start}+{nat-port-end}

port-reservation attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/port-reservation/{inside}+{inside-port-start}+{inside-port-end}+{nat}+{nat-port-start}+{nat-port-end}

port-reservation attributes

```
PUT /axapi/v3/cgnv6/lsn/port-reservation/3.3.3.3+1+2+99.1.1.1+3+4
Payload:
{
    "port-reservation": {
        "inside-port-start": 1,
        "nat-port-start": 3,
        "inside-port-end": 2,
        "inside": "3.3.3.3",
        "nat": "99.1.1.1",
        "nat-port-end": 4
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/lsn/port-reservation

port-reservation-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/port-reservation/{inside}+{inside-port-start}+{inside-port-end}+{nat}+{nat-port-start}+{nat-port-end}

port-reservation attributes

```
DELETE /axapi/v3/cgnv6/lsn/port-reservation/3.3.3.3+1+2+99.1.1.1+3+4
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

port-reservation-list

port-reservation-list is **JSON List** of *port-reservation attributes*

port-reservation-list : [

{ *port-reservation attributes* },

{ *port-reservation attributes* },

...

]

port-reservation attributes

inside

Description Inside User Address and Port Range (Inside User IP address)

Type: string

Format: ipv4-address

inside-port-end

Description Inside End Port

Type: number

Range: 1-65535

inside-port-start

Description Inside Start Port

Type: number

Range: 1-65535

nat

Description NAT IP address

Type: string

Format: ipv4-address

nat-port-end

Description NAT End Port

Type: number

Range: 1-65535

nat-port-start

Description NAT Start Port

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.153 cgnv6 lsn port-reservation-entries

LSN Static Port Reservation

port-reservation-entries Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-reservation-entries
Element URI	/axapi/v3/cgnv6/lsn/port-reservation-entries
Element Attributes	port-reservation-entries_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/lsn/port-reservation-entries/oper
Schema	`port-reservation-entries schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/port-reservation-entries

port-reservation-entries attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/port-reservation-entries

port-reservation-entries attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/port-reservation-entries

port-reservation-entries attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/port-reservation-entries

port-reservation-entries attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/port-reservation-entries

port-reservation-entries attributes

port-reservation-entries attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.154 cgnv6 lsn port-reservation-entries oper

Operational Status for the object port-reservation-entries

port-reservation-entries Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-reservation-entries
Element URI	/axapi/v3/cgnv6/lsn/port-reservation-entries/oper
Element Attributes	port-reservation-entries_attributes
Partition Visibility	None
Schema	`port-reservation-entries schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/port-reservation-entries/oper

port-reservation-entries attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/port-reservation-entries/oper

port-reservation-entries attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/port-reservation-entries/oper

port-reservation-entries attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/port-reservation-entries/oper

port-reservation-entries attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/port-reservation-entries/oper

port-reservation-entries attributes

port-reservation-entries attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

entry-count

Description

Type: number

entry-list

Type: List

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

inside-address

Description

Type: string

Format: ipv4-address

inside-end-port

Description

Type: number

inside-start-port

Description

Type: number

nat-address

Description

Type: string

Format: ipv4-address

nat-end-port

Description

Type: number

nat-start-port

Description

Type: number

2.26.155 cgnv6 lsn radius

Configure the Interaction with External RADIUS Servers

radius Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	radius
Element URI	/axapi/v3/cgnv6/lsn/radius
Element Attributes	radius_attributes
Partition Visibility	shared
Schema	`radius schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/lsn/radius

radius_attributes

radius attributes

server

Description: server is a **JSON Block**. Please see below for *server*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/radius/server*

server

Specification	Value
Type	*object*

accounting-interim-update

Description 'ignore': Ignore (default); 'append-entry': Append the AVPs to existing entry; 'replace-entry': Replace the AVPs of existing entry;

Type: string

Supported Values: ignore, append-entry, replace-entry

Default: ignore

accounting-on

Description 'ignore': Ignore (default); 'delete-entries-using-attribute': Delete entries matching attribute in RADIUS Table;

Type: string

Supported Values: ignore, delete-entries-using-attribute

Default: ignore

accounting-start

Description 'ignore': Ignore; 'append-entry': Append the AVPs to existing entry (default); 'replace-entry': Replace the AVPs of existing entry;

Type: string

Supported Values: ignore, append-entry, replace-entry

Default: append-entry

accounting-stop

Description 'ignore': Ignore; 'delete-entry': Delete the entry (default); 'delete-entry-and-sessions': Delete the entry and data sessions associated;

Type: string

Supported Values: ignore, delete-entry, delete-entry-and-sessions

Default: delete-entry

attribute

Type: List

attribute-name

Description 'msisdn': Clear using MSISDN; 'imei': Clear using IMEI; 'imsi': Clear using IMSI;

Type: string

Supported Values: msisdn, imei, imsi

Mutual Exclusion: attribute-name and custom-attribute-name are mutually exclusive

custom-attribute-name

Description Clear using customized attribute

Type: string

Maximum Length: 15 characters

Maximum Length: 1 characters

Mutual Exclusion: custom-attribute-name and attribute-name are mutually exclusive

disable-reply

Description Toggle option for RADIUS reply packet(Default: Accounting response will be sent)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

listen-port

Description Configure the listen port of RADIUS server (Port number)

Type: number

Range: 1024-65535

remote

Description: remote is a **JSON Block**. Please see below for *server_remote*

Type: Object

sampling-enable

Type: List

secret

Description Configure shared secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-string

Description The RADIUS secret

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Join a VRRP-A failover group

Type: number

Range: 1-31

server_remote

Specification	Value
Type	*object*

ip-list

Type: List

server_remote_ip-list

Specification	Value
Type	*list*
Block object keys	

ip-list-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

ip-list-name

Description IP-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-list-secret

Description Configure shared secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list-secret-string

Description The RADIUS secret

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

server_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msisdn-received': MSISDN Received; 'imei-received': IMEI Received; 'imsi-received': IMSI Received; 'custom-received': Custom attribute Received; 'radius-request-received': RADIUS Request Received; 'radius-request-dropped': RADIUS Request Dropped (Malformed Packet); 'request-bad-secret-dropped': RADIUS Request Bad Secret Dropped; 'request-no-key-vap-dropped': RADIUS Request No Key Attribute Dropped; 'request-malformed-dropped': RADIUS Request Malformed Dropped; 'request-ignored': RADIUS Request Ignored; 'radius-table-full': RADIUS Request Dropped (Table Full); 'secret-not-configured-dropped': RADIUS Secret Not Configured Dropped; 'ha-standby-dropped': HA Standby Dropped; 'ipv6-prefix-length-mismatch': Framed IPV6 Prefix Length Mismatch; 'invalid-key': Radius Request has Invalid Key Field; 'smp-created': RADIUS SMP Created; 'smp-deleted': RADIUS SMP Deleted; 'smp-mem-allocated': RADIUS SMP Memory Allocated; 'smp-mem-alloc-failed': RADIUS SMP Memory Allocation Failed; 'smp-mem-freed': RADIUS SMP Memory Freed; 'smp-in-rml': RADIUS SMP in RML; 'mem-allocated': RADIUS Memory Allocated; 'mem-alloc-failed': RADIUS Memory Allocation Failed; 'mem-freed': RADIUS Memory Freed; 'ha-sync-create-sent': HA Record Sync Create Sent; 'ha-sync-delete-sent': HA Record Sync Delete Sent; 'ha-sync-create-recv': HA Record Sync Create Received; 'ha-sync-delete-recv': HA Record Sync Delete Received; 'acct-on-filters-full': RADIUS Acct On Request Ignored(Filters Full); 'acct-on-dup-request': Duplicate RADIUS Acct On Request; 'ip-mismatch-delete': Radius Entry IP Mismatch Delete; 'ip-add-race-drop': Radius Entry IP Add Race Drop; 'ha-sync-no-key-vap-dropped': HA Record

Sync No key dropped; 'inter-card-msg-fail-drop': Inter-Card Message Fail Drop; 'radius-packets-redirected': RADIUS packets redirected (SO); 'radius-packets-redirect-fail-dropped': RADIUS packets dropped due to redirect failure (SO); 'radius-packets-process-local': RADIUS packets processed locally without redirection (SO); 'radius-packets-dropped-not-lo': RADIUS packets dropped dest not loopback (SO); 'radius-inter-card-dup-redir': RADIUS packet dropped as redirected by other blade (SO);

Type: string

Supported Values: all, msisdn-received, imei-received, imsi-received, custom-received, radius-request-received, radius-request-dropped, request-bad-secret-dropped, request-no-key-vap-dropped, request-malformed-dropped, request-ignored, radius-table-full, secret-not-configured-dropped, ha-standby-dropped, ipv6-prefix-length-mismatch, invalid-key, smp-created, smp-deleted, smp-mem-allocated, smp-mem-alloc-failed, smp-mem-freed, smp-in-rml, mem-allocated, mem-alloc-failed, mem-freed, ha-sync-create-sent, ha-sync-delete-sent, ha-sync-create-recv, ha-sync-delete-recv, acct-on-filters-full, acct-on-dup-request, ip-mismatch-delete, ip-add-race-drop, ha-sync-no-key-vap-dropped, inter-card-msg-fail-drop, radius-packets-redirected, radius-packets-redirect-fail-dropped, radius-packets-process-local, radius-packets-dropped-not-lo, radius-inter-card-dup-redir

server_attribute

Specification	Value
Type	*list*
Block object keys	

attribute-value

Description 'inside-ipv6-prefix': Framed IPv6 Prefix; 'inside-ip': Inside IP address; 'inside-ipv6': Inside IPv6 address; 'imei': International Mobile Equipment Identity (IMEI); 'imsi': International Mobile Subscriber Identity (IMSI); 'msisdn': Mobile Subscriber Integrated Services Digital Network-Number (MSISDN); 'custom1': Customized attribute 1; 'custom2': Customized attribute 2; 'custom3': Customized attribute 3; 'custom4': Customized attribute 4; 'custom5': Customized attribute 5; 'custom6': Customized attribute 6;

Type: string

Supported Values: inside-ipv6-prefix, inside-ip, inside-ipv6, imei, imsi, msisdn, custom1, custom2, custom3, custom4, custom5, custom6

custom-number

Description RADIUS attribute number

Type: number

Range: 1-255

custom-vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

name

Description Customized attribute name

Type: string

Maximum Length: 15 characters

Maximum Length: 1 characters

number

Description RADIUS attribute number

Type: number

Range: 1-255

prefix-length

Description '32': Prefix length 32; '48': Prefix length 48; '64': Prefix length 64; '80': Prefix length 80; '96': Prefix length 96; '112': Prefix length 112;

Type: string

Supported Values: 32, 48, 64, 80, 96, 112

prefix-number

Description RADIUS attribute number

Type: number

Range: 1-255

prefix-vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

value

Description 'hexadecimal': Type of attribute value is hexadecimal;

Type: string

Supported Values: hexadecimal

vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

2.26.156 cgnv6 lsn-radius-profile

Configure LSN RADIUS Profile

lsn-radius-profile Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*lid-profile-index*
Collection Name	*lsn-radius-profile-list*
Collection URI	/axapi/v3/cgnv6/lsn-radius-profile
Element Name	lsn-radius-profile
Element URI	/axapi/v3/cgnv6/lsn-radius-profile/{lid-profile-index}
Element Attributes	lsn-radius-profile_attributes
Partition Visibility	shared
Schema	`lsn-radius-profile schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-radius-profile

lsn-radius-profile attributes

```
POST /axapi/v3/cgnv6/lsn-radius-profile/
Payload:
{
    "lsn-radius-profile": {
        "lid-profile-index": 1,
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/lsn-radius-profile

lsn-radius-profile attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-radius-profile/{lid-profile-index}

lsn-radius-profile attributes

```
GET /axapi/v3/cgnv6/lsn-radius-profile/1
Reponse:
{
```

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```
    "lsn-radius-profile": {
        "lid-profile-index": 1,
        "uuid": "dbd8df10-08a2-11f0-951d-a9cf5715f49c",
        "user-tag": "a",
        "a10-url": "/axapi/v3/cgnv6/lsn-radius-profile/1"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/lsn-radius-profile

lsn-radius-profile-list

Modify Object

POST

/axapi/v3/cgnv6/lsn-radius-profile/{lid-profile-index}

lsn-radius-profile attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-radius-profile/{lid-profile-index}

lsn-radius-profile attributes

```
PUT /axapi/v3/cgnv6/lsn-radius-profile/1
Payload:
{
    "lsn-radius-profile": {
        "lid-profile-index": 1,
        "user-tag": "abc"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/lsn-radius-profile

lsn-radius-profile-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-radius-profile/{lid-profile-index}

lsn-radius-profile attributes

```
DELETE /axapi/v3/cgnv6/lsn-radius-profile/1
Reponse:
```

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```
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

lsn-radius-profile-list

lsn-radius-profile-list is **JSON List** of *lsn-radius-profile attributes*

lsn-radius-profile-list : [

{ *lsn-radius-profile attributes* },

{ *lsn-radius-profile attributes* },

...

]

lsn-radius-profile attributes

lid-profile-index

Description LSN RADIUS Profile Index

Type: number

Range: 1-16

radius

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

radius

Specification	Value
Type	*list*
Block object keys	

attribute

Description 'custom1': Configure RADIUS Attribute Custom 1; 'custom2': Configure RADIUS Attribute Custom 2; 'custom3': Configure RADIUS Attribute Custom 3; 'custom4': Configure RADIUS Attribute Custom 4; 'custom5': Configure RADIUS Attribute Custom 5; 'custom6': Configure RADIUS Attribute Custom 6; 'imei': Configure RADIUS Attribute IMEI; 'imsi': Configure RADIUS Attribute IMSI; 'msisdn': Configure RADIUS Attribute MSISDN; 'default': Configure default;

Type: string

Supported Values: custom1, custom2, custom3, custom4, custom5, custom6, imei, imsi, msisdn, default

default-lsn-lid

Description LSN Limit ID (LID index)

Type: number

Range: 1-1023

exact-value

Description Value of the attribute

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

exact-value-lsn-lid

Description LSN Limit ID (LID index)

Type: number

Range: 1-1023

starts-with

Description Value of the attribute

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

starts-with-lsn-lid

Description LSN Limit ID (LID index)

Type: number

Range: 1-1023

2.26.157 cgnv6 lsn radius server

Configure system as a RADIUS server

server Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	server
Element URI	/axapi/v3/cgnv6/lsn/radius/server
Element Attributes	server_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn/radius/server/stats
Operational Data URI	/axapi/v3/cgnv6/lsn/radius/server/oper
Schema	`server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/radius/server

server attributes

```
POST /axapi/v3/cgnv6/lsn/radius/server
Payload:
{
    "server": {
        "listen-port": 1024
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/radius/server

server attributes

```
GET /axapi/v3/cgnv6/lsn/radius/server
Reponse:
{
    "server": {
        "listen-port": 1024,
        "secret": 0,
        "disable-reply": 0,
        "accounting-start": "append-entry",
```

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```
        "accounting-stop": "delete-entry",
        "accounting-interim-update": "ignore",
        "accounting-on": "ignore",
        "uuid": "c5ed1264-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/radius/server"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/radius/server

server attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/radius/server

server attributes

```
PUT /axapi/v3/cgnv6/lsn/radius/server
Payload:
{
    "server": {
        "listen-port": 1025
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/radius/server

server attributes

```
DELETE /axapi/v3/cgnv6/lsn/radius/server
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

server attributes

accounting-interim-update

Description 'ignore': Ignore (default); 'append-entry': Append the AVPs to existing entry; 'replace-entry': Replace the AVPs of existing entry;

Type: string

Supported Values: ignore, append-entry, replace-entry

Default: ignore

accounting-on

Description 'ignore': Ignore (default); 'delete-entries-using-attribute': Delete entries matching attribute in RADIUS Table;

Type: string

Supported Values: ignore, delete-entries-using-attribute

Default: ignore

accounting-start

Description 'ignore': Ignore; 'append-entry': Append the AVPs to existing entry (default); 'replace-entry': Replace the AVPs of existing entry;

Type: string

Supported Values: ignore, append-entry, replace-entry

Default: append-entry

accounting-stop

Description 'ignore': Ignore; 'delete-entry': Delete the entry (default); 'delete-entry-and-sessions': Delete the entry and data sessions associated;

Type: string

Supported Values: ignore, delete-entry, delete-entry-and-sessions

Default: delete-entry

attribute

Type: List

attribute-name

Description 'msisdn': Clear using MSISDN; 'imei': Clear using IMEI; 'imsi': Clear using IMSI;

Type: string

Supported Values: msisdn, imei, imsi

Mutual Exclusion: attribute-name and custom-attribute-name are mutually exclusive

custom-attribute-name

Description Clear using customized attribute

Type: string

Maximum Length: 15 characters

Maximum Length: 1 characters

Mutual Exclusion: custom-attribute-name and attribute-name are mutually exclusive

disable-reply

Description Toggle option for RADIUS reply packet(Default: Accounting response will be sent)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

listen-port

Description Configure the listen port of RADIUS server (Port number)

Type: number

Range: 1024-65535

remote

Description: remote is a **JSON Block**. Please see below for *remote*

Type: Object

sampling-enable

Type: List

secret

Description Configure shared secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-string

Description The RADIUS secret

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Join a VRRP-A failover group

Type: number

Range: 1-31

remote

Specification	Value
Type	*object*

ip-list

Type: List

remote_ip-list

Specification	Value
Type	*list*
Block object keys	

ip-list-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

ip-list-name

Description IP-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-list-secret

Description Configure shared secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list-secret-string

Description The RADIUS secret

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msisdn-received': MSISDN Received; 'imei-received': IMEI Received; 'imsi-received': IMSI Received; 'custom-received': Custom attribute Received; 'radius-request-received': RADIUS Request Received; 'radius-request-dropped': RADIUS Request Dropped (Malformed Packet); 'request-bad-secret-dropped': RADIUS Request Bad Secret Dropped; 'request-no-key-vap-dropped': RADIUS Request No Key Attribute Dropped; 'request-malformed-dropped': RADIUS Request Malformed Dropped; 'request-ignored': RADIUS Request Ignored; 'radius-table-full': RADIUS Request Dropped (Table Full); 'secret-not-configured-dropped': RADIUS Secret Not Configured Dropped; 'ha-standby-dropped': HA Standby Dropped; 'ipv6-prefix-length-mismatch': Framed IPV6 Prefix Length Mismatch; 'invalid-key': Radius Request has Invalid Key Field; 'smp-created': RADIUS SMP Created; 'smp-deleted': RADIUS SMP Deleted; 'smp-mem-allocated': RADIUS SMP Memory Allocated; 'smp-mem-alloc-failed': RADIUS SMP Memory Allocation Failed; 'smp-mem-freed': RADIUS SMP Memory Freed; 'smp-in-rml': RADIUS SMP in RML; 'mem-allocated': RADIUS Memory Allocated; 'mem-alloc-failed': RADIUS Memory Allocation Failed; 'mem-freed': RADIUS Memory Freed; 'ha-sync-create-sent': HA Record Sync Create Sent; 'ha-sync-delete-sent': HA Record Sync Delete Sent; 'ha-sync-create-recv': HA Record Sync Create Received; 'ha-sync-delete-recv': HA Record Sync Delete Received; 'acct-on-filters-full': RADIUS Acct On Request Ignored(Filters Full); 'acct-on-dup-request': Duplicate RADIUS Acct On Request; 'ip-mismatch-delete': Radius Entry IP Mismatch Delete; 'ip-add-race-drop': Radius Entry IP Add Race Drop; 'ha-sync-no-key-vap-dropped': HA Record Sync No key dropped; 'inter-card-msg-fail-drop': Inter-Card Message Fail Drop; 'radius-packets-redirected': RADIUS packets redirected (SO); 'radius-packets-redirect-fail-dropped': RADIUS packets dropped due to redirect failure (SO); 'radius-packets-process-local': RADIUS packets processed locally without redirection (SO); 'radius-packets-dropped-not-lo': RADIUS packets dropped dest not loopback (SO); 'radius-inter-card-dup-redir': RADIUS packet dropped as redirected by other blade (SO);

Type: string

Supported Values: all, msisdn-received, imei-received, imsi-received, custom-received, radius-request-received, radius-request-dropped, request-bad-secret-dropped, request-no-key-vap-dropped, request-malformed-dropped, request-ignored, radius-table-full, secret-not-configured-dropped, ha-standby-dropped, ipv6-prefix-length-mismatch, invalid-key, smp-created, smp-deleted, smp-mem-allocated, smp-mem-alloc-failed, smp-mem-freed, smp-in-rml, mem-allocated, mem-alloc-failed, mem-freed, ha-sync-create-sent, ha-sync-delete-sent, ha-sync-create-recv, ha-sync-delete-recv, acct-on-filters-full, acct-on-dup-request, ip-mismatch-delete, ip-add-race-drop, ha-sync-no-key-vap-dropped, inter-card-msg-fail-drop, radius-packets-redirected, radius-packets-redirect-fail-dropped, radius-packets-process-local, radius-packets-dropped-not-lo, radius-inter-card-dup-redir

attribute

Specification	Value
Type	*list*
Block object keys	

attribute-value

Description 'inside-ipv6-prefix': Framed IPv6 Prefix; 'inside-ip': Inside IP address; 'inside-ipv6': Inside IPv6 address; 'imei': International Mobile Equipment Identity (IMEI); 'imsi': International Mobile Subscriber Identity (IMSI); 'msisdn': Mobile Subscriber Integrated Services Digital Network-Number (MSISDN); 'custom1': Customized attribute 1; 'custom2': Customized attribute 2; 'custom3': Customized attribute 3; 'custom4': Customized attribute 4; 'custom5': Customized attribute 5; 'custom6': Customized attribute 6;

Type: string

Supported Values: inside-ipv6-prefix, inside-ip, inside-ipv6, imei, imsi, msisdn, custom1, custom2, custom3, custom4, custom5, custom6

custom-number

Description RADIUS attribute number

Type: number

Range: 1-255

custom-vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

name

Description Customized attribute name

Type: string

Maximum Length: 15 characters

Maximum Length: 1 characters

number

Description RADIUS attribute number

Type: number

Range: 1-255

prefix-length

Description '32': Prefix length 32; '48': Prefix length 48; '64': Prefix length 64; '80': Prefix length 80; '96': Prefix length 96; '112': Prefix length 112;

Type: string

Supported Values: 32, 48, 64, 80, 96, 112

prefix-number

Description RADIUS attribute number

Type: number

Range: 1-255

prefix-vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

value

Description 'hexadecimal': Type of attribute value is hexadecimal;

Type: string

Supported Values: hexadecimal

vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

2.26.158 cgnv6 lsn radius server oper

Operational Status for the object server

server Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	server
Element URI	/axapi/v3/cgnv6/lsn/radius/server/oper
Element Attributes	server_attributes
Partition Visibility	None
Schema	`server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/radius/server/oper

server attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/radius/server/oper

server attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/radius/server/oper

server attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/radius/server/oper

server attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/radius/server/oper

server attributes

server attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

case-insensitive

Description

Type: boolean

Supported Values: true, false, 1, 0

custom-attr-name

Description

Type: string

custom-attr-value

Description

Type: string

radius-table-entries-list

Type: List

starts-with

Description

Type: boolean

Supported Values: true, false, 1, 0

total-entries

Description

Type: number

oper_radius-table-entries-list

Specification	Value
Type	*list*
Block object keys	

custom1-attr-value

Description

Type: string

custom2-attr-value

Description

Type: string

custom3-attr-value

Description

Type: string

custom4-attr-value

Description

Type: string

custom5-attr-value

Description

Type: string

custom6-attr-value

Description

Type: string

derived-attr-usergroup-value

Description

Type: string

derived-attr-userid-value

Description

Type: string

imei

Description

Type: string

imsi

Description

Type: string

inside-ip

Description

Type: string

Format: ipv4-address

inside-ipv6

Description

Type: string

Format: ipv6-address

is-obsolete

Description

Type: boolean

Supported Values: true, false, 1, 0

msisdn

Description

Type: string

prefix-len

Description

Type: number

2.26.159 cgnv6 lsn radius server stats

Statistics for the object server

server Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	server
Element URI	/axapi/v3/cgnv6/lsn/radius/server/stats
Element Attributes	server_attributes
Partition Visibility	None
Schema	`server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/radius/server/stats

server attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/radius/server/stats

server attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/radius/server/stats

server attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/radius/server/stats

server attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/radius/server/stats

server attributes

server attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

custom-received

Description Custom attribute Received

Type: number

Format: counter

ha-standby-dropped

Description HA Standby Dropped

Type: number

Format: counter

imei-received

Description IMEI Received

Type: number

Format: counter

imsi-received

Description IMSI Received

Type: number

Format: counter

invalid-key

Description Radius Request has Invalid Key Field

Type: number

Format: counter

ipv6-prefix-length-mismatch

Description Framed IPV6 Prefix Length Mismatch

Type: number

Format: counter

msisdn-received

Description MSISDN Received

Type: number

Format: counter

radius-request-dropped

Description RADIUS Request Dropped (Malformed Packet)

Type: number

Format: counter

radius-request-received

Description RADIUS Request Received

Type: number

Format: counter

radius-table-full

Description RADIUS Request Dropped (Table Full)

Type: number

Format: counter

request-bad-secret-dropped

Description RADIUS Request Bad Secret Dropped

Type: number

Format: counter

request-ignored

Description RADIUS Request Ignored

Type: number

Format: counter

request-malformed-dropped

Description RADIUS Request Malformed Dropped

Type: number

Format: counter

request-no-key-vap-dropped

Description RADIUS Request No Key Attribute Dropped

Type: number

Format: counter

secret-not-configured-dropped

Description RADIUS Secret Not Configured Dropped

Type: number

Format: counter

smp-created

Description RADIUS SMP Created

Type: number

Format: counter

smp-deleted

Description RADIUS SMP Deleted

Type: number

Format: counter

2.26.160 cgnv6 lsn-rule-list

Configure LSN Rule-List

lsn-rule-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*lsn-rule-list-list*
Collection URI	/axapi/v3/cgnv6/lsn-rule-list
Element Name	lsn-rule-list
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}
Element Attributes	lsn-rule-list_attributes
Partition Visibility	shared
Schema	`lsn-rule-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list

lsn-rule-list attributes

```
POST /axapi/v3/cgnv6/lsn-rule-list/
Payload:
{
    "lsn-rule-list": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/lsn-rule-list

lsn-rule-list attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}

lsn-rule-list attributes

```
GET /axapi/v3/cgnv6/lsn-rule-list/a
Reponse:
{
    "lsn-rule-list": {
        "name": "a",
        "http-match-domain-name": 0,
        "uuid": "7a99d28a-08a3-11f0-951d-a9cf5715f49c",
        "user-tag": "a",
```

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```
        "domain-ip": {
            "uuid": "7a99eb26-08a3-11f0-951d-a9cf5715f49c",
            "a10-url": "/axapi/v3/cgnv6/lsn-rule-list/a/domain-ip"
        },
        "default": {
            "uuid": "7a99ed10-08a3-11f0-951d-a9cf5715f49c",
            "a10-url": "/axapi/v3/cgnv6/lsn-rule-list/a/default"
        },
        "a10-url": "/axapi/v3/cgnv6/lsn-rule-list/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/lsn-rule-list

lsn-rule-list-list

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}

lsn-rule-list attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}

lsn-rule-list attributes

```
PUT /axapi/v3/cgnv6/lsn-rule-list/a
Payload:
{
    "lsn-rule-list": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/lsn-rule-list

lsn-rule-list-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}

lsn-rule-list attributes

```
DELETE /axapi/v3/cgnv6/lsn-rule-list/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

lsn-rule-list-list

lsn-rule-list-list is **JSON List** of *lsn-rule-list attributes*

lsn-rule-list-list : [

{ *lsn-rule-list attributes* },

{ *lsn-rule-list attributes* },

...

]

lsn-rule-list attributes

default

Description: default is a **JSON Block**. Please see below for *default*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn-rule-list/{name}/default*

domain-ip

Description: domain-ip is a **JSON Block**. Please see below for *domain-ip*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip*

domain-list-name-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}*

domain-name-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}*

http-match-domain-name

Description Enable match domain name in http request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}*

name

Description LSN Rule-List Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-ip

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-ip_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

default

Specification	Value
Type	*object*

rule-cfg

Type: List

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

default_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

default_rule-cfg

Specification	Value
Type	*list*
Block object keys	

dscp-cfg

Description: dscp-cfg is a **JSON Block**. Please see below for *default_rule-cfg_dscp-cfg*

Type: Object

icmp-others-cfg

Description: icmp-others-cfg is a **JSON Block**. Please see below for *default_rule-cfg_icmp-others-cfg*

Type: Object

proto

Description 'tcp': TCP L4 Protocol; 'udp': UDP L4 Protocol; 'icmp': ICMP L4 Protocol; 'others': Other L4 Protocol; 'dscp': Match DSCP Value; 'default': Default Action;

Type: string

Supported Values: tcp, udp, icmp, others, dscp, default

tcp-cfg

Description: tcp-cfg is a **JSON Block**. Please see below for *default_rule-cfg_tcp-cfg*

Type: Object

udp-cfg

Description: udp-cfg is a **JSON Block**. Please see below for *default_rule-cfg_udp-cfg*

Type: Object

default_rule-cfg_dscp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action;

Type: string

Supported Values: action

action-type

Description 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-match

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); 'any': Match any dscp value; '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, any, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

default_rule-cfg_tcp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets; 'template': Template;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

http-alg

Description HTTP-ALG Template (Template Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

default_rule-cfg_udp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29':

011101; ‘30’: 011110; ‘31’: 011111; ‘32’: 100000; ‘33’: 100001; ‘34’: 100010; ‘35’: 100011; ‘36’: 100100; ‘37’: 100101; ‘38’: 100110; ‘39’: 100111; ‘40’: 101000; ‘41’: 101001; ‘42’: 101010; ‘43’: 101011; ‘44’: 101100; ‘45’: 101101; ‘46’: 101110; ‘47’: 101111; ‘48’: 110000; ‘49’: 110001; ‘50’: 110010; ‘51’: 110011; ‘52’: 110100; ‘53’: 110101; ‘54’: 110110; ‘55’: 110111; ‘56’: 111000; ‘57’: 111001; ‘58’: 111010; ‘59’: 111011; ‘60’: 111100; ‘61’: 111101; ‘62’: 111110; ‘63’: 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

default_rule-cfg_icmp-others-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010;

‘3’: 000011; ‘4’: 000100; ‘5’: 000101; ‘6’: 000110; ‘7’: 000111; ‘8’: 001000; ‘9’: 001001; ‘10’: 001010; ‘11’: 001011; ‘12’: 001100; ‘13’: 001101; ‘14’: 001110; ‘15’: 001111; ‘16’: 010000; ‘17’: 010001; ‘18’: 010010; ‘19’: 010011; ‘20’: 010100; ‘21’: 010101; ‘22’: 010110; ‘23’: 010111; ‘24’: 011000; ‘25’: 011001; ‘26’: 011010; ‘27’: 011011; ‘28’: 011100; ‘29’: 011101; ‘30’: 011110; ‘31’: 011111; ‘32’: 100000; ‘33’: 100001; ‘34’: 100010; ‘35’: 100011; ‘36’: 100100; ‘37’: 100101; ‘38’: 100110; ‘39’: 100111; ‘40’: 101000; ‘41’: 101001; ‘42’: 101010; ‘43’: 101011; ‘44’: 101100; ‘45’: 101101; ‘46’: 101110; ‘47’: 101111; ‘48’: 110000; ‘49’: 110001; ‘50’: 110010; ‘51’: 110011; ‘52’: 110100; ‘53’: 110101; ‘54’: 110110; ‘55’: 110111; ‘56’: 111000; ‘57’: 111001; ‘58’: 111010; ‘59’: 111011; ‘60’: 111100; ‘61’: 111101; ‘62’: 111110; ‘63’: 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

ip-list

Specification	Value
Type	*list*
Block object keys	

ipv4-addr

Description Configure a Specific Rule-Set (IP Network Address)

Type: string

Format: ipv4-cidr

rule-cfg

Type: List

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

ip-list_rule-cfg

Specification	Value
Type	*list*
Block object keys	

dscp-cfg

Description: dscp-cfg is a **JSON Block**. Please see below for *ip-list_rule-cfg_dscp-cfg*

Type: Object

icmp-others-cfg

Description: icmp-others-cfg is a **JSON Block**. Please see below for *ip-list_rule-cfg_icmp-others-cfg*

Type: Object

proto

Description 'tcp': TCP L4 Protocol; 'udp': UDP L4 Protocol; 'icmp': ICMP L4 Protocol; 'others': Other L4 Protocol; 'dscp': Match DSCP Value; 'default': Default Action;

Type: string

Supported Values: tcp, udp, icmp, others, dscp, default

tcp-cfg

Description: tcp-cfg is a **JSON Block**. Please see below for *ip-list_rule-cfg_tcp-cfg*

Type: Object

udp-cfg

Description: udp-cfg is a **JSON Block**. Please see below for *ip-list_rule-cfg_udp-cfg*

Type: Object

ip-list_rule-cfg_dscp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action;

Type: string

Supported Values: action

action-type

Description 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-match

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); 'any': Match any dscp value; '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, any, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ip-list_rule-cfg_tcp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets; 'template': Template; 'idle-timeout': Configure idle timeout;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template, idle-timeout

domain

Description DNAT Using IP of a Domain (Domain Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: domain and ipv4-list are mutually exclusive

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000;

‘49’: 110001; ‘50’: 110010; ‘51’: 110011; ‘52’: 110100; ‘53’: 110101; ‘54’: 110110; ‘55’: 110111; ‘56’: 111000; ‘57’: 111001; ‘58’: 111010; ‘59’: 111011; ‘60’: 111100; ‘61’: 111101; ‘62’: 111110; ‘63’: 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

fast

Description ‘fast’: Fast Aging;

Type: string

Supported Values: fast

Mutual Exclusion: fast and timeout-val are mutually exclusive

http-alg

Description HTTP-ALG Template (Template Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ipv4-list and domain are mutually exclusive

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

timeout-val

Description Timeout in seconds

Type: number

Range: 2-129600

Mutual Exclusion: timeout-val and fast are mutually exclusive

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

ip-list_rule-cfg_udp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets; 'idle-timeout': Configure idle timeout;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, idle-timeout

domain

Description DNAT Using IP of a Domain (Domain Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: domain and ipv4-list are mutually exclusive

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55':

110111; ‘56’: 111000; ‘57’: 111001; ‘58’: 111010; ‘59’: 111011; ‘60’: 111100; ‘61’: 111101; ‘62’: 111110; ‘63’: 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

fast

Description ‘fast’: Fast Aging;

Type: string

Supported Values: fast

Mutual Exclusion: fast and timeout-val are mutually exclusive

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ipv4-list and domain are mutually exclusive

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

timeout-val

Description Timeout in seconds

Type: number

Range: 2-129600

Mutual Exclusion: timeout-val and fast are mutually exclusive

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

ip-list_rule-cfg_icmp-others-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

domain

Description DNAT Using IP of a Domain (Domain Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: domain and ipv4-list are mutually exclusive

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ipv4-list and domain are mutually exclusive

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

domain-list-name-list

Specification	Value
Type	*list*
Block object keys	

name-domain-list

Description Configure a Specific Rule-Set (Domain List Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-cfg

Type: List

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list-name-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

domain-list-name-list_rule-cfg

Specification	Value
Type	*list*
Block object keys	

dscp-cfg

Description: dscp-cfg is a **JSON Block**. Please see below for *domain-list-name-list_rule-cfg_dscp-cfg*

Type: Object

icmp-others-cfg

Description: icmp-others-cfg is a **JSON Block**. Please see below for *domain-list-name-list_rule-cfg_icmp-others-cfg*

Type: Object

proto

Description 'tcp': TCP L4 Protocol; 'udp': UDP L4 Protocol; 'icmp': ICMP L4 Protocol; 'others': Other L4 Protocol; 'dscp': Match DSCP Value; 'default': Default Action;

Type: string

Supported Values: tcp, udp, icmp, others, dscp, default

tcp-cfg

Description: tcp-cfg is a **JSON Block**. Please see below for *domain-list-name-list_rule-cfg_tcp-cfg*

Type: Object

udp-cfg

Description: udp-cfg is a **JSON Block**. Please see below for *domain-list-name-list_rule-cfg_udp-cfg*

Type: Object

domain-list-name-list_rule-cfg_dscp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action;

Type: string

Supported Values: action

action-type

Description 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-match

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); 'any': Match any dscp value; '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110;

‘47’: 101111; ‘48’: 110000; ‘49’: 110001; ‘50’: 110010; ‘51’: 110011; ‘52’: 110100; ‘53’: 110101; ‘54’: 110110; ‘55’: 110111; ‘56’: 111000; ‘57’: 111001; ‘58’: 111010; ‘59’: 111011; ‘60’: 111100; ‘61’: 111101; ‘62’: 111110; ‘63’: 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, any, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description ‘default’: Default dscp (000000); ‘af11’: AF11 (001010); ‘af12’: AF12 (001100); ‘af13’: AF13 (001110); ‘af21’: AF21 (010010); ‘af22’: AF22 (010100); ‘af23’: AF23 (010110); ‘af31’: AF31 (011010); ‘af32’: AF32 (011100); ‘af33’: AF33 (011110); ‘af41’: AF41 (100010); ‘af42’: AF42 (100100); ‘af43’: AF43 (100110); ‘cs1’: CS1 (001000); ‘cs2’: CS2 (010000); ‘cs3’: CS3 (011000); ‘cs4’: CS4 (100000); ‘cs5’: CS5 (101000); ‘cs6’: CS6 (110000); ‘cs7’: CS7 (111000); ‘ef’: EF (101110); ‘0’: 000000; ‘1’: 000001; ‘2’: 000010; ‘3’: 000011; ‘4’: 000100; ‘5’: 000101; ‘6’: 000110; ‘7’: 000111; ‘8’: 001000; ‘9’: 001001; ‘10’: 001010; ‘11’: 001011; ‘12’: 001100; ‘13’: 001101; ‘14’: 001110; ‘15’: 001111; ‘16’: 010000; ‘17’: 010001; ‘18’: 010010; ‘19’: 010011; ‘20’: 010100; ‘21’: 010101; ‘22’: 010110; ‘23’: 010111; ‘24’: 011000; ‘25’: 011001; ‘26’: 011010; ‘27’: 011011; ‘28’: 011100; ‘29’: 011101; ‘30’: 011110; ‘31’: 011111; ‘32’: 100000; ‘33’: 100001; ‘34’: 100010; ‘35’: 100011; ‘36’: 100100; ‘37’: 100101; ‘38’: 100110; ‘39’: 100111; ‘40’: 101000; ‘41’: 101001; ‘42’: 101010; ‘43’: 101011; ‘44’: 101100; ‘45’: 101101; ‘46’: 101110; ‘47’: 101111; ‘48’: 110000; ‘49’: 110001; ‘50’: 110010; ‘51’: 110011; ‘52’: 110100; ‘53’: 110101; ‘54’: 110110; ‘55’: 110111; ‘56’: 111000; ‘57’: 111001; ‘58’: 111010; ‘59’: 111011; ‘60’: 111100; ‘61’: 111101; ‘62’: 111110; ‘63’: 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

domain-list-name-list_rule-cfg_tcp-cfg

Specification	Value
Type	*object*

action-cfg

Description ‘action’: LSN Rule-List Action; ‘no-action’: Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description ‘dnat’: Apply Dest NAT; ‘drop’: Drop the Packets; ‘one-to-one-snat’: Apply one-to-one source NAT for the packets; ‘pass-through’: Pass the Packets Through; ‘snat’: Redirect the Packets to a Different Source NAT Pool; ‘set-dscp’: To set dscp value for the packets; ‘template’: Template;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

http-alg

Description HTTP-ALG Template (Template Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

domain-list-name-list_rule-cfg_udp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

domain-list-name-list_rule-cfg_icmp-others-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

domain-name-list

Specification	Value
Type	*list*
Block object keys	

name-domain

Description Configure a Specific Rule-Set (Domain Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-cfg

Type: List

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-name-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

domain-name-list_rule-cfg

Specification	Value
Type	*list*
Block object keys	

dscp-cfg

Description: dscp-cfg is a **JSON Block**. Please see below for *domain-name-list_rule-cfg_dscp-cfg*

Type: Object

icmp-others-cfg

Description: icmp-others-cfg is a **JSON Block**. Please see below for *domain-name-list_rule-cfg_icmp-others-cfg*

Type: Object

proto

Description 'tcp': TCP L4 Protocol; 'udp': UDP L4 Protocol; 'icmp': ICMP L4 Protocol; 'others': Other L4 Protocol; 'dscp': Match DSCP Value; 'default': Default Action;

Type: string

Supported Values: tcp, udp, icmp, others, dscp, default

tcp-cfg

Description: tcp-cfg is a **JSON Block**. Please see below for *domain-name-list_rule-cfg_tcp-cfg*

Type: Object

udp-cfg

Description: udp-cfg is a **JSON Block**. Please see below for *domain-name-list_rule-cfg_udp-cfg*

Type: Object

domain-name-list_rule-cfg_dscp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action;

Type: string

Supported Values: action

action-type

Description 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-match

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); 'any': Match any dscp value; '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, any, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

domain-name-list_rule-cfg_tcp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets; 'template': Template;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

http-alg

Description HTTP-ALG Template (Template Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

domain-name-list_rule-cfg_udp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

domain-name-list_rule-cfg_icmp-others-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

2.26.161 cgnv6 lsn-rule-list default

Configure the Generic Rule-Set

default Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	default
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/default
Element Attributes	default_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/default/stats
Operational Data URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/default/oper
Schema	`default schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/default

default attributes

```
POST /axapi/v3/cgnv6/lsn-rule-list/a/default
Payload:
{
    "default": {
        "rule-cfg": [
            {
                "proto": "tcp",
                "tcp-cfg": {
                    "start-port": 2,
                    "end-port": 3,
```

(continues on next page)

(continued from previous page)

```
                    "action-type": "dnat",
                    "action-cfg": "action",
                    "ipv4-list": "a",
                    "no-snat": 1
                }
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/default

default attributes

```
GET /axapi/v3/cgnv6/lsn-rule-list/a/default
Reponse:
{
    "default": {
        "rule-cfg": [
            {
                "proto": "tcp",
                "tcp-cfg": {
                    "start-port": 2,
                    "end-port": 3,
                    "action-cfg": "action",
                    "action-type": "dnat",
                    "ipv4-list": "a",
                    "no-snat": 1
                }
            }
        ],
        "uuid": "eb8ce02c-08a3-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn-rule-list/a/default"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/default

default attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/default

default attributes

```
PUT /axapi/v3/cgnv6/lsn-rule-list/a/default
Payload:
{
    "default": {
        "rule-cfg": [
            {
                "proto": "tcp",
                "tcp-cfg": {
                    "start-port": 3,
                    "end-port": 4,
                    "action-type": "dnat",
                    "action-cfg": "action",
                    "ipv4-list": "abcd",
                    "no-snat": 0
                }
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/default

default attributes

```
DELETE /axapi/v3/cgnv6/lsn-rule-list/a/default
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

default attributes

rule-cfg

Type: List

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

rule-cfg

Specification	Value
Type	*list*
Block object keys	

dscp-cfg

Description: dscp-cfg is a **JSON Block**. Please see below for *rule-cfg_dscp-cfg*

Type: Object

icmp-others-cfg

Description: icmp-others-cfg is a **JSON Block**. Please see below for *rule-cfg_icmp-others-cfg*

Type: Object

proto

Description 'tcp': TCP L4 Protocol; 'udp': UDP L4 Protocol; 'icmp': ICMP L4 Protocol; 'others': Other L4 Protocol; 'dscp': Match DSCP Value; 'default': Default Action;

Type: string

Supported Values: tcp, udp, icmp, others, dscp, default

tcp-cfg

Description: tcp-cfg is a **JSON Block**. Please see below for *rule-cfg_tcp-cfg*

Type: Object

udp-cfg

Description: udp-cfg is a **JSON Block**. Please see below for *rule-cfg_udp-cfg*

Type: Object

rule-cfg_dscp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action;

Type: string

Supported Values: action

action-type

Description 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-match

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); 'any': Match any dscp value; '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, any, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41':

AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

rule-cfg_tcp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets; 'template': Template;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41':

AF41 (100010); ‘af42’: AF42 (100100); ‘af43’: AF43 (100110); ‘cs1’: CS1 (001000); ‘cs2’: CS2 (010000); ‘cs3’: CS3 (011000); ‘cs4’: CS4 (100000); ‘cs5’: CS5 (101000); ‘cs6’: CS6 (110000); ‘cs7’: CS7 (111000); ‘ef’: EF (101110); ‘0’: 000000; ‘1’: 000001; ‘2’: 000010; ‘3’: 000011; ‘4’: 000100; ‘5’: 000101; ‘6’: 000110; ‘7’: 000111; ‘8’: 001000; ‘9’: 001001; ‘10’: 001010; ‘11’: 001011; ‘12’: 001100; ‘13’: 001101; ‘14’: 001110; ‘15’: 001111; ‘16’: 010000; ‘17’: 010001; ‘18’: 010010; ‘19’: 010011; ‘20’: 010100; ‘21’: 010101; ‘22’: 010110; ‘23’: 010111; ‘24’: 011000; ‘25’: 011001; ‘26’: 011010; ‘27’: 011011; ‘28’: 011100; ‘29’: 011101; ‘30’: 011110; ‘31’: 011111; ‘32’: 100000; ‘33’: 100001; ‘34’: 100010; ‘35’: 100011; ‘36’: 100100; ‘37’: 100101; ‘38’: 100110; ‘39’: 100111; ‘40’: 101000; ‘41’: 101001; ‘42’: 101010; ‘43’: 101011; ‘44’: 101100; ‘45’: 101101; ‘46’: 101110; ‘47’: 101111; ‘48’: 110000; ‘49’: 110001; ‘50’: 110010; ‘51’: 110011; ‘52’: 110100; ‘53’: 110101; ‘54’: 110110; ‘55’: 110111; ‘56’: 111000; ‘57’: 111001; ‘58’: 111010; ‘59’: 111011; ‘60’: 111100; ‘61’: 111101; ‘62’: 111110; ‘63’: 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

http-alg

Description HTTP-ALG Template (Template Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

rule-cfg_udp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

rule-cfg_icmp-others-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

2.26.162 cgnv6 lsn-rule-list default oper

Operational Status for the object default

default Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	default
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/default/oper
Element Attributes	default_attributes
Partition Visibility	None
Schema	`default schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/default/oper

default attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/default/oper

default attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/default/oper

default attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/default/oper

default attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/default/oper

default attributes

default attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

rule-count

Description

Type: number

rule-list

Type: List

oper_rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

Supported Values: action, no-action

action-type

Description

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template, idle-timeout

dnat-domain-unresolved-drops

Description

Type: number

domain-name

Description

Type: string

Format: string-rlx

dscp-direction

Description

Type: string

Supported Values: inbound, outbound

dscp-match

Description

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description

Type: number

fast

Description

Type: number

hits

Description

Type: number

http-alg

Description

Type: string

ipv4-list

Description

Type: string

Format: string-rlx

no-snat

Description

Type: number

pool

Description

Type: string

Format: string-rlx

pool-shared

Description

Type: number

port-list

Description

Type: string

Format: string-rlx

proto

Description

Type: string

Supported Values: tcp, udp, icmp, others, dscp

start-port

Description

Type: number

timeout-val

Description

Type: number

vrid

Description

Type: number

2.26.163 cgnv6 lsn-rule-list default stats

Statistics for the object default

default Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	default
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/default/stats
Element Attributes	default_attributes
Partition Visibility	None
Schema	`default schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/default/stats

default attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/default/stats

default attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/default/stats

default attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/default/stats

default attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/default/stats

default attributes

default attributes

stats

Type: Object

2.26.164 cgnv6 lsn-rule-list domain-ip

Domain IP for LSN Rule-List

domain-ip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	domain-ip
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip
Element Attributes	domain-ip_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/stats
Operational Data URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/oper
Schema	`domain-ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip

domain-ip attributes

```
POST /axapi/v3/cgnv6/lsn-rule-list/a/domain-ip
Payload:
{
    "domain-ip": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip

domain-ip attributes

```
GET /axapi/v3/cgnv6/lsn-rule-list/a/domain-ip
Reponse:
{
    "domain-ip": {
        "uuid": "40aaccc6-08a5-11f0-951d-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/lsn-rule-list/a/domain-ip"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip

domain-ip attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip

domain-ip attributes

```
PUT /axapi/v3/cgnv6/lsn-rule-list/a/domain-ip
Payload:
{
    "domain-ip": {
        "sampling-enable": [
            {
                "counters1": "placeholder"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip

domain-ip attributes

```
DELETE /axapi/v3/cgnv6/lsn-rule-list/a/domain-ip
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

domain-ip attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

2.26.165 cgnv6 lsn-rule-list domain-ip oper

Operational Status for the object domain-ip

domain-ip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	domain-ip
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/oper
Element Attributes	domain-ip_attributes
Partition Visibility	None
Schema	`domain-ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/oper

domain-ip attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/oper

domain-ip attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/oper

domain-ip attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/oper

domain-ip attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/oper

domain-ip attributes

domain-ip attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

ip-list

Type: List

oper_ip-list

Specification	Value
Type	*list*
Block object keys	

domain

Description

Type: string

Format: string-rlx

domain-list

Description

Type: string

Format: string-rlx

ip-address

Description

Type: string

Format: ipv4-address

ttl

Description

Type: number

2.26.166 cgnv6 lsn-rule-list domain-ip stats

Statistics for the object domain-ip

domain-ip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	domain-ip
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/stats
Element Attributes	domain-ip_attributes
Partition Visibility	None
Schema	`domain-ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/stats

domain-ip attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/stats

domain-ip attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/stats

domain-ip attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/stats

domain-ip attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-ip/stats

domain-ip attributes

domain-ip attributes

stats

Type: Object

2.26.167 cgnv6 lsn-rule-list domain-list-name

Configure a Specific Rule-Set (Domain List Name)

domain-list-name Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name-domain-list*
Collection Name	*domain-list-name-list*
Collection URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name
Element Name	domain-list-name
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}
Element Attributes	domain-list-name_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}/stats
Operational Data URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}/oper
Schema	`domain-list-name schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name

domain-list-name attributes

Create List

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name

domain-list-name attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}

domain-list-name attributes

Get List

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name

domain-list-name-list

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}

domain-list-name attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}

domain-list-name attributes

Replace List

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name

domain-list-name-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}

domain-list-name attributes

domain-list-name-list

domain-list-name-list is **JSON List** of *domain-list-name attributes*

domain-list-name-list : [

{ *domain-list-name attributes* },

{ *domain-list-name attributes* },

...

]

domain-list-name attributes

name-domain-list

Description Configure a Specific Rule-Set (Domain List Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-cfg

Type: List

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

rule-cfg

Specification	Value
Type	*list*
Block object keys	

dscp-cfg

Description: dscp-cfg is a **JSON Block**. Please see below for *rule-cfg_dscp-cfg*

Type: Object

icmp-others-cfg

Description: icmp-others-cfg is a **JSON Block**. Please see below for *rule-cfg_icmp-others-cfg*

Type: Object

proto

Description 'tcp': TCP L4 Protocol; 'udp': UDP L4 Protocol; 'icmp': ICMP L4 Protocol; 'others': Other L4 Protocol; 'dscp': Match DSCP Value; 'default': Default Action;

Type: string

Supported Values: tcp, udp, icmp, others, dscp, default

tcp-cfg

Description: tcp-cfg is a **JSON Block**. Please see below for *rule-cfg_tcp-cfg*

Type: Object

udp-cfg

Description: udp-cfg is a **JSON Block**. Please see below for *rule-cfg_udp-cfg*

Type: Object

rule-cfg_dscp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action;

Type: string

Supported Values: action

action-type

Description 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-match

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); 'any': Match any dscp value; '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, any, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

rule-cfg_tcp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets; 'template': Template;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

http-alg

Description HTTP-ALG Template (Template Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

rule-cfg_udp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

rule-cfg_icmp-others-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

2.26.168 cgnv6 lsn-rule-list domain-list-name oper

Operational Status for the object domain-list-name

domain-list-name Specification

Parameter	Value
Type	*Collection*
Collection Name	*domain-list-name-list*
Collection URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}
Element Name	domain-list-name
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}/oper
Element Attributes	domain-list-name_attributes
Partition Visibility	None
Schema	`domain-list-name schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}

domain-list-name attributes

Create List

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}

domain-list-name attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}/oper

domain-list-name attributes

Get List

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}

domain-list-name-list

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}/oper

domain-list-name attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}/oper

domain-list-name attributes

Replace List

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}

domain-list-name-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}/oper

domain-list-name attributes

domain-list-name-list

domain-list-name-list is **JSON List** of *domain-list-name attributes*

domain-list-name-list : [

{ *domain-list-name attributes* },

{ *domain-list-name attributes* },

...

]

domain-list-name attributes

name-domain-list

Description Configure a Specific Rule-Set (Domain List Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

rule-count

Description

Type: number

rule-list

Type: List

oper_rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

Supported Values: action, no-action

action-type

Description

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template, idle-timeout

dnat-domain-unresolved-drops

Description

Type: number

domain-name

Description

Type: string

Format: string-rlx

dscp-direction

Description

Type: string

Supported Values: inbound, outbound

dscp-match

Description

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description

Type: number

fast

Description

Type: number

hits

Description

Type: number

http-alg

Description

Type: string

ipv4-list

Description

Type: string

Format: string-rlx

no-snat

Description

Type: number

pool

Description

Type: string

Format: string-rlx

pool-shared

Description

Type: number

port-list

Description

Type: string

Format: string-rlx

proto

Description

Type: string

Supported Values: tcp, udp, icmp, others, dscp

start-port

Description

Type: number

timeout-val

Description

Type: number

vrid

Description

Type: number

2.26.169 cgnv6 lsn-rule-list domain-list-name stats

Statistics for the object domain-list-name

domain-list-name Specification

Parameter	Value
Type	*Collection*
Collection Name	*domain-list-name-list*
Collection URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}
Element Name	domain-list-name
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}/stats
Element Attributes	domain-list-name_attributes
Partition Visibility	None
Schema	`domain-list-name schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}

domain-list-name attributes

Create List

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}

domain-list-name attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}/stats

domain-list-name attributes

Get List

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}

domain-list-name-list

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}/stats

domain-list-name attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}/stats

domain-list-name attributes

Replace List

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}

domain-list-name-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-list-name/{name-domain-list}/stats

domain-list-name attributes

domain-list-name-list

domain-list-name-list is **JSON List** of *domain-list-name attributes*

domain-list-name-list : [

{ *domain-list-name attributes* },

{ *domain-list-name attributes* },

...

]

domain-list-name attributes

name-domain-list

Description Configure a Specific Rule-Set (Domain List Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Type: Object

2.26.170 cgnv6 lsn-rule-list domain-name

Configure a Specific Rule-Set (Domain Name)

domain-name Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name-domain*
Collection Name	*domain-name-list*
Collection URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name
Element Name	domain-name
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}
Element Attributes	domain-name_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}/stats
Operational Data URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}/oper
Schema	`domain-name schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name

domain-name attributes

Create List

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name

domain-name attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}

domain-name attributes

Get List

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name

domain-name-list

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}

domain-name attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}

domain-name attributes

Replace List

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name

domain-name-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}

domain-name attributes

domain-name-list

domain-name-list is **JSON List** of *domain-name attributes*

```
domain-name-list : [
        { domain-name attributes },
        { domain-name attributes },
        ...
    ]
```

domain-name attributes

name-domain

Description Configure a Specific Rule-Set (Domain Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-cfg

Type: List

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

rule-cfg

Specification	Value
Type	*list*
Block object keys	

dscp-cfg

Description: dscp-cfg is a **JSON Block**. Please see below for *rule-cfg_dscp-cfg*

Type: Object

icmp-others-cfg

Description: icmp-others-cfg is a **JSON Block**. Please see below for *rule-cfg_icmp-others-cfg*

Type: Object

proto

Description 'tcp': TCP L4 Protocol; 'udp': UDP L4 Protocol; 'icmp': ICMP L4 Protocol; 'others': Other L4 Protocol; 'dscp': Match DSCP Value; 'default': Default Action;

Type: string

Supported Values: tcp, udp, icmp, others, dscp, default

tcp-cfg

Description: tcp-cfg is a **JSON Block**. Please see below for *rule-cfg_tcp-cfg*

Type: Object

udp-cfg

Description: udp-cfg is a **JSON Block**. Please see below for *rule-cfg_udp-cfg*

Type: Object

rule-cfg_dscp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action;

Type: string

Supported Values: action

action-type

Description 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-match

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); 'any': Match any dscp value; '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, any, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

rule-cfg_tcp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets; 'template': Template;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

http-alg

Description HTTP-ALG Template (Template Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

rule-cfg_udp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

rule-cfg_icmp-others-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

2.26.171 cgnv6 lsn-rule-list domain-name oper

Operational Status for the object domain-name

domain-name Specification

Parameter	Value
Type	*Collection*
Collection Name	*domain-name-list*
Collection URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}
Element Name	domain-name
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}/oper
Element Attributes	domain-name_attributes
Partition Visibility	None
Schema	`domain-name schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}

domain-name attributes

Create List

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}

domain-name attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}/oper

domain-name attributes

Get List

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}

domain-name-list

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}/oper

domain-name attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}/oper

domain-name attributes

Replace List

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}

domain-name-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}/oper

domain-name attributes

domain-name-list

domain-name-list is **JSON List** of *domain-name attributes*

domain-name-list : [

{ *domain-name attributes* },

{ *domain-name attributes* },

…

]

domain-name attributes

name-domain

Description Configure a Specific Rule-Set (Domain Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

rule-count

Description

Type: number

rule-list

Type: List

oper_rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

Supported Values: action, no-action

action-type

Description

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template, idle-timeout

dnat-domain-unresolved-drops

Description

Type: number

domain-name

Description

Type: string

Format: string-rlx

dscp-direction

Description

Type: string

Supported Values: inbound, outbound

dscp-match

Description

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description

Type: number

fast

Description

Type: number

hits

Description

Type: number

http-alg

Description

Type: string

ipv4-list

Description

Type: string

Format: string-rlx

no-snat

Description

Type: number

pool

Description

Type: string

Format: string-rlx

pool-shared

Description

Type: number

port-list

Description

Type: string

Format: string-rlx

proto

Description

Type: string

Supported Values: tcp, udp, icmp, others, dscp

start-port

Description

Type: number

timeout-val

Description

Type: number

vrid

Description

Type: number

2.26.172 cgnv6 lsn-rule-list domain-name stats

Statistics for the object domain-name

domain-name Specification

Parameter	Value
Type	*Collection*
Collection Name	*domain-name-list*
Collection URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}
Element Name	domain-name
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}/stats
Element Attributes	domain-name_attributes
Partition Visibility	None
Schema	`domain-name schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}

domain-name attributes

Create List

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}

domain-name attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}/stats

domain-name attributes

Get List

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}

domain-name-list

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}/stats

domain-name attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}/stats

domain-name attributes

Replace List

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}

domain-name-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/domain-name/{name-domain}/stats

domain-name attributes

domain-name-list

domain-name-list is **JSON List** of *domain-name attributes*

domain-name-list : [

{ *domain-name attributes* },

{ *domain-name attributes* },

…

]

domain-name attributes

name-domain

Description Configure a Specific Rule-Set (Domain Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Type: Object

2.26.173 cgnv6 lsn-rule-list ip

Configure a Specific Rule-Set (IP Network Address)

ip Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ipv4-addr*
Collection Name	*ip-list*
Collection URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/ip
Element Name	ip
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}
Element Attributes	ip_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}/stats
Operational Data URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}/oper
Schema	`ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip

ip attributes

Create List

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip

ip attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}

ip attributes

Get List

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip

ip-list

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}

ip attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}

ip attributes

Replace List

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip

ip-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}

ip attributes

ip-list

ip-list is **JSON List** of *ip attributes*

```
ip-list : [
        { ip attributes },
        { ip attributes },
        ...
    ]
```

ip attributes

ipv4-addr

Description Configure a Specific Rule-Set (IP Network Address)

Type: string

Format: ipv4-cidr

rule-cfg

Type: List

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'placeholder': some help string;

Type: string

Supported Values: all, placeholder

rule-cfg

Specification	Value
Type	*list*
Block object keys	

dscp-cfg

Description: dscp-cfg is a **JSON Block**. Please see below for *rule-cfg_dscp-cfg*

Type: Object

icmp-others-cfg

Description: icmp-others-cfg is a **JSON Block**. Please see below for *rule-cfg_icmp-others-cfg*

Type: Object

proto

Description 'tcp': TCP L4 Protocol; 'udp': UDP L4 Protocol; 'icmp': ICMP L4 Protocol; 'others': Other L4 Protocol; 'dscp': Match DSCP Value; 'default': Default Action;

Type: string

Supported Values: tcp, udp, icmp, others, dscp, default

tcp-cfg

Description: tcp-cfg is a **JSON Block**. Please see below for *rule-cfg_tcp-cfg*

Type: Object

udp-cfg

Description: udp-cfg is a **JSON Block**. Please see below for *rule-cfg_udp-cfg*

Type: Object

rule-cfg_dscp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action;

Type: string

Supported Values: action

action-type

Description 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: set-dscp

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-match

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); 'any': Match any dscp value; '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, any, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41':

AF41 (100010); ‘af42’: AF42 (100100); ‘af43’: AF43 (100110); ‘cs1’: CS1 (001000); ‘cs2’: CS2 (010000); ‘cs3’: CS3 (011000); ‘cs4’: CS4 (100000); ‘cs5’: CS5 (101000); ‘cs6’: CS6 (110000); ‘cs7’: CS7 (111000); ‘ef’: EF (101110); ‘0’: 000000; ‘1’: 000001; ‘2’: 000010; ‘3’: 000011; ‘4’: 000100; ‘5’: 000101; ‘6’: 000110; ‘7’: 000111; ‘8’: 001000; ‘9’: 001001; ‘10’: 001010; ‘11’: 001011; ‘12’: 001100; ‘13’: 001101; ‘14’: 001110; ‘15’: 001111; ‘16’: 010000; ‘17’: 010001; ‘18’: 010010; ‘19’: 010011; ‘20’: 010100; ‘21’: 010101; ‘22’: 010110; ‘23’: 010111; ‘24’: 011000; ‘25’: 011001; ‘26’: 011010; ‘27’: 011011; ‘28’: 011100; ‘29’: 011101; ‘30’: 011110; ‘31’: 011111; ‘32’: 100000; ‘33’: 100001; ‘34’: 100010; ‘35’: 100011; ‘36’: 100100; ‘37’: 100101; ‘38’: 100110; ‘39’: 100111; ‘40’: 101000; ‘41’: 101001; ‘42’: 101010; ‘43’: 101011; ‘44’: 101100; ‘45’: 101101; ‘46’: 101110; ‘47’: 101111; ‘48’: 110000; ‘49’: 110001; ‘50’: 110010; ‘51’: 110011; ‘52’: 110100; ‘53’: 110101; ‘54’: 110110; ‘55’: 110111; ‘56’: 111000; ‘57’: 111001; ‘58’: 111010; ‘59’: 111011; ‘60’: 111100; ‘61’: 111101; ‘62’: 111110; ‘63’: 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

rule-cfg_tcp-cfg

Specification	Value
Type	*object*

action-cfg

Description ‘action’: LSN Rule-List Action; ‘no-action’: Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description ‘dnat’: Apply Dest NAT; ‘drop’: Drop the Packets; ‘one-to-one-snat’: Apply one-to-one source NAT for the packets; ‘pass-through’: Pass the Packets Through; ‘snat’: Redirect the Packets to a Different Source NAT Pool; ‘set-dscp’: To set dscp value for the packets; ‘template’: Template; ‘idle-timeout’: Configure idle timeout;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template, idle-timeout

domain

Description DNAT Using IP of a Domain (Domain Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: domain and ipv4-list are mutually exclusive

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

fast

Description 'fast': Fast Aging;

Type: string

Supported Values: fast

Mutual Exclusion: fast and timeout-val are mutually exclusive

http-alg

Description HTTP-ALG Template (Template Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ipv4-list and domain are mutually exclusive

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

timeout-val

Description Timeout in seconds

Type: number

Range: 2-129600

Mutual Exclusion: timeout-val and fast are mutually exclusive

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

rule-cfg_udp-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets; 'idle-timeout': Configure idle timeout;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, idle-timeout

domain

Description DNAT Using IP of a Domain (Domain Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: domain and ipv4-list are mutually exclusive

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55': 110111; '56': 111000; '57': 111001; '58': 111010; '59': 111011; '60': 111100; '61': 111101; '62': 111110; '63': 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description End of Port Range (inclusive)

Type: number

Range: 1-65535

fast

Description 'fast': Fast Aging;

Type: string

Supported Values: fast

Mutual Exclusion: fast and timeout-val are mutually exclusive

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ipv4-list and domain are mutually exclusive

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-list

Description Port-List Name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-port

Description Single Port or Start of Port Range (inclusive), Port 0 is Match Any Port

Type: number

Range: 0-65535

timeout-val

Description Timeout in seconds

Type: number

Range: 2-129600

Mutual Exclusion: timeout-val and fast are mutually exclusive

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

rule-cfg_icmp-others-cfg

Specification	Value
Type	*object*

action-cfg

Description 'action': LSN Rule-List Action; 'no-action': Exclude LSN Rule-List Action;

Type: string

Supported Values: action, no-action

action-type

Description 'dnat': Apply Dest NAT; 'drop': Drop the Packets; 'one-to-one-snat': Apply one-to-one source NAT for the packets; 'pass-through': Pass the Packets Through; 'snat': Redirect the Packets to a Different Source NAT Pool; 'set-dscp': To set dscp value for the packets;

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp

domain

Description DNAT Using IP of a Domain (Domain Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: domain and ipv4-list are mutually exclusive

dscp-direction

Description 'inbound': To set dscp value for inbound packets; 'outbound': To set dscp value for outbound packets;

Type: string

Supported Values: inbound, outbound

dscp-value

Description 'default': Default dscp (000000); 'af11': AF11 (001010); 'af12': AF12 (001100); 'af13': AF13 (001110); 'af21': AF21 (010010); 'af22': AF22 (010100); 'af23': AF23 (010110); 'af31': AF31 (011010); 'af32': AF32 (011100); 'af33': AF33 (011110); 'af41': AF41 (100010); 'af42': AF42 (100100); 'af43': AF43 (100110); 'cs1': CS1 (001000); 'cs2': CS2 (010000); 'cs3': CS3 (011000); 'cs4': CS4 (100000); 'cs5': CS5 (101000); 'cs6': CS6 (110000); 'cs7': CS7 (111000); 'ef': EF (101110); '0': 000000; '1': 000001; '2': 000010; '3': 000011; '4': 000100; '5': 000101; '6': 000110; '7': 000111; '8': 001000; '9': 001001; '10': 001010; '11': 001011; '12': 001100; '13': 001101; '14': 001110; '15': 001111; '16': 010000; '17': 010001; '18': 010010; '19': 010011; '20': 010100; '21': 010101; '22': 010110; '23': 010111; '24': 011000; '25': 011001; '26': 011010; '27': 011011; '28': 011100; '29': 011101; '30': 011110; '31': 011111; '32': 100000; '33': 100001; '34': 100010; '35': 100011; '36': 100100; '37': 100101; '38': 100110; '39': 100111; '40': 101000; '41': 101001; '42': 101010; '43': 101011; '44': 101100; '45': 101101; '46': 101110; '47': 101111; '48': 110000; '49': 110001; '50': 110010; '51': 110011; '52': 110100; '53': 110101; '54': 110110; '55':

110111; ‘56’: 111000; ‘57’: 111001; ‘58’: 111010; ‘59’: 111011; ‘60’: 111100; ‘61’: 111101; ‘62’: 111110; ‘63’: 111111;

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

ipv4-list

Description IP-List (IP-List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ipv4-list and domain are mutually exclusive

no-snat

Description Disable source NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pool

Description NAT Pool (NAT Pool or Pool Group)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description The pool is a shared pool

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

vrid

Description VRRP-A vrid

Type: number

Range: 1-31

2.26.174 cgnv6 lsn-rule-list ip oper

Operational Status for the object ip

ip Specification

Parameter	Value
Type	*Collection*
Collection Name	*ip-list*
Collection URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}
Element Name	ip
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}/oper
Element Attributes	ip_attributes
Partition Visibility	None
Schema	`ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}

ip attributes

Create List

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}

ip attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}/oper

ip attributes

Get List

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}

ip-list

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}/oper

ip attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}/oper

ip attributes

Replace List

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}

ip-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}/oper

ip attributes

ip-list

ip-list is **JSON List** of *ip attributes*

ip-list : [

{ *ip attributes* },

{ *ip attributes* },

...

]

ip attributes

ipv4-addr

Description Configure a Specific Rule-Set (IP Network Address)

Type: string

Format: ipv4-cidr

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

rule-count

Description

Type: number

rule-list

Type: List

oper_rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

Supported Values: action, no-action

action-type

Description

Type: string

Supported Values: dnat, drop, one-to-one-snat, pass-through, snat, set-dscp, template, idle-timeout

dnat-domain-unresolved-drops

Description

Type: number

domain-name

Description

Type: string

Format: string-rlx

dscp-direction

Description

Type: string

Supported Values: inbound, outbound

dscp-match

Description

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

dscp-value

Description

Type: string

Supported Values: default, af11, af12, af13, af21, af22, af23, af31, af32, af33, af41, af42, af43, cs1, cs2, cs3, cs4, cs5, cs6, cs7, ef, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

end-port

Description

Type: number

fast

Description

Type: number

hits

Description

Type: number

http-alg

Description

Type: string

ipv4-list

Description

Type: string

Format: string-rlx

no-snat

Description

Type: number

pool

Description

Type: string

Format: string-rlx

pool-shared

Description

Type: number

port-list

Description

Type: string

Format: string-rlx

proto

Description

Type: string

Supported Values: tcp, udp, icmp, others, dscp, default

start-port

Description

Type: number

timeout-val

Description

Type: number

vrid

Description

Type: number

2.26.175 cgnv6 lsn-rule-list ip stats

Statistics for the object ip

ip Specification

Parameter	Value
Type	*Collection*
Collection Name	*ip-list*
Collection URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}
Element Name	ip
Element URI	/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}/stats
Element Attributes	ip_attributes
Partition Visibility	None
Schema	`ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}

ip attributes

Create List

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}

ip attributes

Get Object

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}/stats

ip attributes

Get List

GET

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}

ip-list

Modify Object

POST

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}/stats

ip attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}/stats

ip attributes

Replace List

PUT

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}

ip-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn-rule-list/{name}/ip/{ipv4-addr}/stats

ip attributes

ip-list

ip-list is **JSON List** of *ip attributes*

ip-list : [

{ *ip attributes* },

{ *ip attributes* },

…

]

ip attributes

ipv4-addr

Description Configure a Specific Rule-Set (IP Network Address)

Type: string

Format: ipv4-cidr

stats

Type: Object

2.26.176 cgnv6 lsn stun-timeout

Set STUN timeout

stun-timeout Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	stun-timeout
Element URI	/axapi/v3/cgnv6/lsn/stun-timeout
Element Attributes	stun-timeout_attributes
Partition Visibility	shared
Schema	`stun-timeout schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/lsn/stun-timeout

stun-timeout_attributes

stun-timeout attributes

tcp-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn/stun-timeout/tcp/{port-start}+{port-end}*

udp-list

Type: List

Reference Object: */axapi/v3/cgnv6/lsn/stun-timeout/udp/{port-start}+{port-end}*

udp-list

Specification	Value
Type	*list*
Block object keys	

port-end

Description Port Range (Port Range End)

Type: number

Range: 1-65535

port-start

Description Port Range (Port Range Start)

Type: number

Range: 1-65535

timeout

Description STUN timeout in minutes (default: 2 minutes)

Type: number

Range: 0-60

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list

Specification	Value
Type	*list*
Block object keys	

port-end

Description Port Range (Port Range End)

Type: number

Range: 1-65535

port-start

Description Port Range (Port Range Start)

Type: number

Range: 1-65535

timeout

Description STUN timeout in minutes (default: 2 minutes)

Type: number

Range: 0-60

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.177 cgnv6 lsn stun-timeout tcp

Set TCP STUN timeout

tcp Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-start, port-end*
Collection Name	*tcp-list*
Collection URI	/axapi/v3/cgnv6/lsn/stun-timeout/tcp
Element Name	tcp
Element URI	/axapi/v3/cgnv6/lsn/stun-timeout/tcp/{port-start}+{port-end}
Element Attributes	tcp_attributes
Partition Visibility	shared
Schema	`tcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/stun-timeout/tcp

tcp attributes

```
POST /axapi/v3/cgnv6/lsn/stun-timeout/tcp/
Payload:
{
    "tcp": {
        "port-start": 1,
        "port-end": 1,
        "timeout": 0
    }
}
```

Create List

POST

/axapi/v3/cgnv6/lsn/stun-timeout/tcp

tcp attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/stun-timeout/tcp/{port-start}+{port-end}

tcp attributes

```
GET /axapi/v3/cgnv6/lsn/stun-timeout/tcp/1+1
Reponse:
```

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```
{
    "tcp": {
        "port-start": 1,
        "port-end": 1,
        "timeout": 0,
        "uuid": "ea1d153a-08a9-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/stun-timeout/tcp/1+1"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/lsn/stun-timeout/tcp

tcp-list

Modify Object

POST

/axapi/v3/cgnv6/lsn/stun-timeout/tcp/{port-start}+{port-end}

tcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/stun-timeout/tcp/{port-start}+{port-end}

tcp attributes

```
PUT /axapi/v3/cgnv6/lsn/stun-timeout/tcp/1+1
Payload:
{
    "tcp": {
        "port-start": 1,
        "port-end": 1,
        "timeout": 0
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/lsn/stun-timeout/tcp

tcp-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/stun-timeout/tcp/{port-start}+{port-end}

tcp attributes

```
DELETE /axapi/v3/cgnv6/lsn/stun-timeout/tcp/1+1
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

tcp-list

tcp-list is **JSON List** of *tcp attributes*

tcp-list : [

{ *tcp attributes* },

{ *tcp attributes* },

...

]

tcp attributes

port-end

Description Port Range (Port Range End)

Type: number

Range: 1-65535

port-start

Description Port Range (Port Range Start)

Type: number

Range: 1-65535

timeout

Description STUN timeout in minutes (default: 2 minutes)

Type: number

Range: 0-60

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.178 cgnv6 lsn stun-timeout udp

Set UDP STUN timeout

udp Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-start, port-end*
Collection Name	*udp-list*
Collection URI	/axapi/v3/cgnv6/lsn/stun-timeout/udp
Element Name	udp
Element URI	/axapi/v3/cgnv6/lsn/stun-timeout/udp/{port-start}+{port-end}
Element Attributes	udp_attributes
Partition Visibility	shared
Schema	`udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/stun-timeout/udp

udp attributes

```
POST /axapi/v3/cgnv6/lsn/stun-timeout/udp/
Payload:
{
    "udp": {
        "port-start": 1,
        "port-end": 1,
        "timeout": 0
    }
}
```

Create List

POST

/axapi/v3/cgnv6/lsn/stun-timeout/udp

udp attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/stun-timeout/udp/{port-start}+{port-end}

udp attributes

```
GET /axapi/v3/cgnv6/lsn/stun-timeout/udp/1+1
Reponse:
```

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```
{
    "udp": {
        "port-start": 1,
        "port-end": 1,
        "timeout": 0,
        "uuid": "0138cb42-08aa-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/stun-timeout/udp/1+1"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/lsn/stun-timeout/udp

udp-list

Modify Object

POST

/axapi/v3/cgnv6/lsn/stun-timeout/udp/{port-start}+{port-end}

udp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/stun-timeout/udp/{port-start}+{port-end}

udp attributes

```
PUT /axapi/v3/cgnv6/lsn/stun-timeout/udp/1+1
Payload:
{
    "udp": {
        "port-start": 1,
        "port-end": 1,
        "timeout": 0
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/lsn/stun-timeout/udp

udp-list

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/stun-timeout/udp/{port-start}+{port-end}

udp attributes

```
DELETE /axapi/v3/cgnv6/lsn/stun-timeout/udp/1+1
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

udp-list

udp-list is **JSON List** of *udp attributes*

udp-list : [

{ *udp attributes* },

{ *udp attributes* },

...

]

udp attributes

port-end

Description Port Range (Port Range End)

Type: number

Range: 1-65535

port-start

Description Port Range (Port Range Start)

Type: number

Range: 1-65535

timeout

Description STUN timeout in minutes (default: 2 minutes)

Type: number

Range: 0-60

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.179 cgnv6 lsn system-status

system-status Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	system-status
Element URI	/axapi/v3/cgnv6/lsn/system-status
Element Attributes	system-status_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/lsn/system-status/oper
Schema	`system-status schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/system-status

system-status attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/system-status

system-status attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/system-status

system-status attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/system-status

system-status attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/system-status

system-status attributes

system-status attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.180 cgnv6 lsn system-status oper

Operational Status for the object system-status

system-status Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	system-status
Element URI	/axapi/v3/cgnv6/lsn/system-status/oper
Element Attributes	system-status_attributes
Partition Visibility	None
Schema	`system-status schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/system-status/oper

system-status attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/system-status/oper

system-status attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/system-status/oper

system-status attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/system-status/oper

system-status attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/system-status/oper

system-status attributes

system-status attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

data-sessions-free

Description

Type: number

data-sessions-used

Description

Type: number

lsn-cps

Description

Type: number

radius-entries-free

Description

Type: number

radius-entries-used

Description

Type: number

smp-sessions-free

Description

Type: number

smp-sessions-used

Description

Type: number

tcp-nat-ports-free

Description

Type: number

tcp-nat-ports-used

Description

Type: number

udp-nat-ports-free

Description

Type: number

udp-nat-ports-used

Description

Type: number

2.26.181 cgnv6 lsn tcp

LSN TCP parameters

tcp Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	tcp
Element URI	/axapi/v3/cgnv6/lsn/tcp
Element Attributes	tcp_attributes
Partition Visibility	shared
Schema	`tcp schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/lsn/tcp

tcp_attributes

tcp attributes

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *mss-clamp*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/tcp/mss-clamp*

reset-on-error

Description: reset-on-error is a **JSON Block**. Please see below for *reset-on-error*

Type: Object

Reference Object: */axapi/v3/cgnv6/lsn/tcp/reset-on-error*

mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: ((576 - 60 - 60))))

Type: number

Range: 0-1460

Default: 456

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'subtract': Specify the value to subtract from the TCP MSS; 'none': No TCP MSS clamping (default);

Type: string

Supported Values: fixed, subtract, none

Default: none

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: not configured)

Type: number

Range: 0-1460

mss-value

Description The max value allowed for the TCP MSS (default: not configured)},

Type: number

Range: 0-1460

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

reset-on-error

Specification	Value
Type	*object*

outbound

Description 'disable': Disable send TCP reset on error;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.182 cgnv6 lsn tcp mss-clamp

LSN TCP MSS Clamping

mss-clamp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	mss-clamp
Element URI	/axapi/v3/cgnv6/lsn/tcp/mss-clamp
Element Attributes	mss-clamp_attributes
Partition Visibility	shared
Schema	`mss-clamp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/tcp/mss-clamp

mss-clamp attributes

```
POST /axapi/v3/cgnv6/lsn/tcp/mss-clamp
Payload:
{
    "mss-clamp": {
        "mss-clamp-type": "fixed",
        "mss-value": 0
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/tcp/mss-clamp

mss-clamp attributes

```
GET /axapi/v3/cgnv6/lsn/tcp/mss-clamp
Reponse:
{
    "mss-clamp": {
        "mss-clamp-type": "fixed",
        "mss-value": 0,
        "uuid": "c5ed13a4-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/tcp/mss-clamp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/tcp/mss-clamp

mss-clamp attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/tcp/mss-clamp

mss-clamp attributes

```
PUT /axapi/v3/cgnv6/lsn/tcp/mss-clamp
Payload:
{
    "mss-clamp": {
        "mss-clamp-type": "fixed",
        "mss-value": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/tcp/mss-clamp

mss-clamp attributes

```
DELETE /axapi/v3/cgnv6/lsn/tcp/mss-clamp
Reponse:
{
    "response": {
        "http-status": 200,
```

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```
        "status": "OK",
        "msg": "Success"
    }
}
```

mss-clamp attributes

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: ((576 - 60 - 60))))

Type: number

Range: 0-1460

Default: 456

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'subtract': Specify the value to subtract from the TCP MSS; 'none': No TCP MSS clamping (default);

Type: string

Supported Values: fixed, subtract, none

Default: none

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: not configured)

Type: number

Range: 0-1460

mss-value

Description The max value allowed for the TCP MSS (default: not configured)},

Type: number

Range: 0-1460

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.183 cgnv6 lsn tcp reset-on-error

Send TCP resets for invalid sessions (Default: enabled)

reset-on-error Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	reset-on-error
Element URI	/axapi/v3/cgnv6/lsn/tcp/reset-on-error
Element Attributes	reset-on-error_attributes
Partition Visibility	shared
Schema	`reset-on-error schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/tcp/reset-on-error

reset-on-error attributes

```
POST /axapi/v3/cgnv6/lsn/tcp/reset-on-error
Payload:
{
    "reset-on-error": {
        "outbound": "disable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lsn/tcp/reset-on-error

reset-on-error attributes

```
GET /axapi/v3/cgnv6/lsn/tcp/reset-on-error
Reponse:
{
    "reset-on-error": {
        "outbound": "disable",
        "uuid": "616821fc-08aa-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lsn/tcp/reset-on-error"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lsn/tcp/reset-on-error

reset-on-error attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/tcp/reset-on-error

reset-on-error attributes

```
PUT /axapi/v3/cgnv6/lsn/tcp/reset-on-error
Payload:
{
    "reset-on-error": {
        "outbound": "disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/tcp/reset-on-error

reset-on-error attributes

```
DELETE /axapi/v3/cgnv6/lsn/tcp/reset-on-error
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

reset-on-error attributes

outbound

Description 'disable': Disable send TCP reset on error;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.184 cgnv6 lsn user-quota-session

LSN Per User Statistics

user-quota-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	user-quota-session
Element URI	/axapi/v3/cgnv6/lsn/user-quota-session
Element Attributes	user-quota-session_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/lsn/user-quota-session/oper
Schema	`user-quota-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/user-quota-session

user-quota-session attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/user-quota-session

user-quota-session attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/user-quota-session

user-quota-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/user-quota-session

user-quota-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/user-quota-session

user-quota-session attributes

user-quota-session attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.185 cgnv6 lsn user-quota-session oper

Operational Status for the object user-quota-session

user-quota-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	user-quota-session
Element URI	/axapi/v3/cgnv6/lsn/user-quota-session/oper
Element Attributes	user-quota-session_attributes
Partition Visibility	None
Schema	`user-quota-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lsn/user-quota-session/oper

user-quota-session attributes

Get Object

GET

/axapi/v3/cgnv6/lsn/user-quota-session/oper

user-quota-session attributes

Modify Object

POST

/axapi/v3/cgnv6/lsn/user-quota-session/oper

user-quota-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/lsn/user-quota-session/oper

user-quota-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lsn/user-quota-session/oper

user-quota-session attributes

user-quota-session attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-partitions

Description

Type: boolean

Supported Values: true, false, 1, 0

inside-addr

Description

Type: string

Format: ipv4-address

nat-addr

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

partition-name

Description

Type: string

pool-shared

Description

Type: boolean

Supported Values: true, false, 1, 0

session-count

Description

Type: number

session-list

Type: List

shared-partition

Description

Type: boolean

Supported Values: true, false, 1, 0

top-by-all-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

top-by-icmp-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

top-by-tcp-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

top-by-udp-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

top-count

Description

Type: number

top-sort-by-cli

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_session-list

Specification	Value
Type	*list*
Block object keys	

flags

Description

Type: string

icmp-quota

Description

Type: number

Range: 1-65535

inside-address

Description

Type: string

Format: ipv4-address

lid-number

Description

Type: number

nat-address

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

session-count

Description

Type: number

session-count-tcp

Description

Type: number

session-count-udp

Description

Type: number

tcp-quota

Description

Type: number

Range: 1-65535

udp-quota

Description

Type: number

Range: 1-65535

2.26.186 cgnv6 lw-4o6

Configure LW-4over6

lw-4o6 Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	lw-4o6
Element URI	/axapi/v3/cgnv6/lw-4o6
Element Attributes	lw-4o6_attributes
Partition Visibility	shared
Schema	`lw-4o6 schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/lw-4o6

lw-4o6_attributes

lw-4o6 attributes

active-binding-table

Description: active-binding-table is a **JSON Block**. Please see below for *active-binding-table*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/active-binding-table*

all-binding-tables

Description: all-binding-tables is a **JSON Block**. Please see below for *all-binding-tables*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/all-binding-tables*

binding-table-files-status

Description: binding-table-files-status is a **JSON Block**. Please see below for *binding-table-files-status*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/binding-table-files-status*

binding-table-list

Type: List

Reference Object: */axapi/v3/cgnv6/lw-4o6/binding-table/{name}*

binding-table-validate

Description: binding-table-validate is a **JSON Block**. Please see below for *binding-table-validate*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/binding-table-validate*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/fragmentation*

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/global*

health-check-gateway-list

Type: List

Reference Object: */axapi/v3/cgnv6/lw-4o6/health-check-gateway/{ipv4-addr}+{ipv6-addr}*

validation-log-files

Description: validation-log-files is a **JSON Block**. Please see below for *validation-log-files*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/validation-log-files*

fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/fragmentation/outbound*

fragmentation_inbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv4, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fragmentation_outbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set)(default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmp, send-icmpv6

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

health-check-gateway-list

Specification	Value
Type	*list*
Block object keys	

ipv4-addr

Description LW-4over6 IPv4 Gateway

Type: string

Format: ipv4-address

ipv6-addr

Description LW-4over6 IPv6 Gateway

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

active-binding-table

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global

Specification	Value
Type	*object*

hairpinning

Description 'filter-all': Disable all Hairpinning; 'filter-none': Allow all Hairpinning (default); 'filter-self-ip': Block Hairpinning to same IP; 'filter-self-ip-port': Block hairpinning to same IP and Port combination;

Type: string

Supported Values: filter-all, filter-none, filter-self-ip, filter-self-ip-port

Default: filter-none

icmp-inbound

Description 'drop': Drop Inbound ICMP packets; 'handle': Handle Inbound ICMP packets(default);

Type: string

Supported Values: drop, handle

Default: handle

inside-src-access-list

Description Access List for inside IPv4 addresses (ACL ID)

Type: number

Range: 1-199

nat-prefix-list

Description Configure LW-4over6 NAT Prefix List (LW-4over6 NAT Prefix Class-list)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

no-forward-match

Description: no-forward-match is a **JSON Block**. Please see below for *global_no-forward-match*

Type: Object

no-reverse-match

Description: no-reverse-match is a **JSON Block**. Please see below for *global_no-reverse-match*

Type: Object

sampling-enable

Type: List

use-binding-table

Description Bind LW-4over6 binding table for use (LW-4over6 Binding Table Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global_no-forward-match

Specification	Value
Type	*object*

send-icmpv6

Description Send ICMPv6 Type 1 Code 5

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'entry_count': Total Entries Configured; 'self_hairpinning_drop': Self-Hairpinning Drops; 'all_hairpinning_drop': All Hairpinning Drops; 'no_match_icmpv6_sent': No-Forward-Match ICMPv6 Sent; 'no_match_icmp_sent': No-Reverse-Match ICMP Sent; 'icmp_inbound_drop': Inbound ICMP Drops; 'fwd_lookup_failed': Forward Route Lookup Failed; 'rev_lookup_failed': Reverse Route Lookup Failed; 'interface_not_configured': LW-4over6 Interfaces not Configured Drops; 'no_binding_table_matches_fwd': No Forward Binding Table Entry Match Drops; 'no_binding_table_matches_rev': No Reverse Binding Table Entry Match Drops; 'session_count': LW-4over6 Session Count; 'system_address_drop': LW-4over6 System Address Drops;

Type: string

Supported Values: all, entry_count, self_hairpinning_drop, all_hairpinning_drop, no_match_icmpv6_sent, no_match_icmp_sent, icmp_inbound_drop, fwd_lookup_failed, rev_lookup_failed, interface_not_configured, no_binding_table_matches_fwd, no_binding_table_matches_rev, session_count, system_address_drop

global_no-reverse-match

Specification	Value
Type	*object*

send-icmp

Description Send ICMP Type 3 Code 1

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

binding-table-validate

Specification	Value
Type	*object*

binding-name

Description LW-4over6 Binding Table Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

all-binding-tables

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

binding-table-files-status

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

validation-log-files

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

binding-table-list

Specification	Value
Type	*list*
Block object keys	

name

Description LW-4over6 Binding Table Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tunnel-address-list

Type: List

Reference Object: */axapi/v3/cgnv6/lw-4o6/binding-table/{name}/tunnel-address/{ipv6-tunnel-addr}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

binding-table-list_tunnel-address-list

Specification	Value
Type	*list*
Block object keys	

ipv6-tunnel-addr

Description Tunnel IPv6 Endpoint Address

Type: string

Format: ipv6-address

nat-address-list

Type: List

Reference Object: */axapi/v3/cgnv6/lw-4o6/binding-table/{name}/tunnel-address/{ipv6-tunnel-addr}/nat-address/{ipv4-nat-addr}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

binding-table-list_tunnel-address-list_nat-address-list

Specification	Value
Type	*list*
Block object keys	

ipv4-nat-addr

Description NAT IPv4 Address

Type: string

Format: ipv4-address

port-range-list

Type: List

Reference Object: */axapi/v3/cgnv6/lw-4o6/binding-table/{name}/tunnel-address/{ipv6-tunnel-addr}/nat-address/{ipv4-nat-addr}/port-range/{port-start}+{port-end}+{tunnel-endpoint-address}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

binding-table-list_tunnel-address-list_nat-address-list_port-range-list

Specification	Value
Type	*list*
Block object keys	

port-end

Description Port Range End

Type: number

Range: 1-65535

port-start

Description Single Port or Port Range Start

Type: number

Range: 1-65535

tunnel-endpoint-address

Description Configure LW-4over6 IPIP Tunnel Endpoint Address (LW-4over6 Tunnel Endpoint Address)

Type: string

Format: ipv6-address

2.26.187 cgnv6 lw-4o6 active-binding-table

Active LW-4over6 binding table

active-binding-table Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	active-binding-table
Element URI	/axapi/v3/cgnv6/lw-4o6/active-binding-table
Element Attributes	active-binding-table_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/lw-4o6/active-binding-table/oper
Schema	`active-binding-table schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/active-binding-table

active-binding-table attributes

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/active-binding-table

active-binding-table attributes

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/active-binding-table

active-binding-table attributes

Replace Object

PUT

/axapi/v3/cgnv6/lw-4o6/active-binding-table

active-binding-table attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lw-4o6/active-binding-table

active-binding-table attributes

active-binding-table attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.188 cgnv6 lw-4o6 active-binding-table oper

Operational Status for the object active-binding-table

active-binding-table Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	active-binding-table
Element URI	/axapi/v3/cgnv6/lw-4o6/active-binding-table/oper
Element Attributes	active-binding-table_attributes
Partition Visibility	None
Schema	`active-binding-table schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/active-binding-table/oper

active-binding-table attributes

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/active-binding-table/oper

active-binding-table attributes

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/active-binding-table/oper

active-binding-table attributes

Replace Object

PUT

/axapi/v3/cgnv6/lw-4o6/active-binding-table/oper

active-binding-table attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lw-4o6/active-binding-table/oper

active-binding-table attributes

active-binding-table attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

entry-list

Type: List

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

aftr-tunnel-address

Description

Type: string

Format: ipv6-address

fwd-match-count

Description

Type: number

nat-address

Description

Type: string

Format: ipv4-address

port-end

Description

Type: number

port-start

Description

Type: number

rev-match-count

Description

Type: number

tunnel-address

Description

Type: string

Format: ipv6-address

2.26.189 cgnv6 lw-4o6 all-binding-tables

Get all LW-4over6 binding tables

all-binding-tables Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	all-binding-tables
Element URI	/axapi/v3/cgnv6/lw-4o6/all-binding-tables
Element Attributes	all-binding-tables_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/lw-4o6/all-binding-tables/oper
Schema	`all-binding-tables schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/all-binding-tables

all-binding-tables attributes

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/all-binding-tables

all-binding-tables attributes

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/all-binding-tables

all-binding-tables attributes

Replace Object

PUT

/axapi/v3/cgnv6/lw-4o6/all-binding-tables

all-binding-tables attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lw-4o6/all-binding-tables

all-binding-tables attributes

all-binding-tables attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.190 cgnv6 lw-4o6 all-binding-tables oper

Operational Status for the object all-binding-tables

all-binding-tables Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	all-binding-tables
Element URI	/axapi/v3/cgnv6/lw-4o6/all-binding-tables/oper
Element Attributes	all-binding-tables_attributes
Partition Visibility	None
Schema	`all-binding-tables schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/all-binding-tables/oper

all-binding-tables attributes

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/all-binding-tables/oper

all-binding-tables attributes

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/all-binding-tables/oper

all-binding-tables attributes

Replace Object

PUT

/axapi/v3/cgnv6/lw-4o6/all-binding-tables/oper

all-binding-tables attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lw-4o6/all-binding-tables/oper

all-binding-tables attributes

all-binding-tables attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

entry-list

Type: List

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

name

Description

Type: string

2.26.191 cgnv6 lw-4o6 binding-table-files-status

LW-4over6 binding table files status

binding-table-files-status Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	binding-table-files-status
Element URI	/axapi/v3/cgnv6/lw-4o6/binding-table-files-status
Element Attributes	binding-table-files-status_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/lw-4o6/binding-table-files-status/oper
Schema	`binding-table-files-status schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/binding-table-files-status

binding-table-files-status attributes

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/binding-table-files-status

binding-table-files-status attributes

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/binding-table-files-status

binding-table-files-status attributes

Replace Object

PUT

/axapi/v3/cgnv6/lw-4o6/binding-table-files-status

binding-table-files-status attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lw-4o6/binding-table-files-status

binding-table-files-status attributes

binding-table-files-status attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.192 cgnv6 lw-4o6 binding-table-files-status oper

Operational Status for the object binding-table-files-status

binding-table-files-status Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	binding-table-files-status
Element URI	/axapi/v3/cgnv6/lw-4o6/binding-table-files-status/oper
Element Attributes	binding-table-files-status_attributes
Partition Visibility	None
Schema	`binding-table-files-status schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/binding-table-files-status/oper

binding-table-files-status attributes

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/binding-table-files-status/oper

binding-table-files-status attributes

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/binding-table-files-status/oper

binding-table-files-status attributes

Replace Object

PUT

/axapi/v3/cgnv6/lw-4o6/binding-table-files-status/oper

binding-table-files-status attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lw-4o6/binding-table-files-status/oper

binding-table-files-status attributes

binding-table-files-status attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

entry-count

Description

Type: number

entry-list

Type: List

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

active

Description

Type: string

modified

Description

Type: string

name

Description

Type: string

2.26.193 cgnv6 lw-4o6 fragmentation

LW-4O6 fragmentation rules

fragmentation Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	fragmentation
Element URI	/axapi/v3/cgnv6/lw-4o6/fragmentation
Element Attributes	fragmentation_attributes
Partition Visibility	shared
Schema	`fragmentation schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/fragmentation

fragmentation_attributes

fragmentation attributes

inbound

Description: inbound is a **JSON Block**. Please see below for *inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/lw-4o6/fragmentation/outbound*

inbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv4, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set)(default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmp, send-icmpv6

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.194 cgnv6 lw-4o6 fragmentation inbound

LW-4O6 fragmentation rules for inbound oversize packets

inbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	inbound
Element URI	/axapi/v3/cgnv6/lw-4o6/fragmentation/inbound
Element Attributes	inbound_attributes
Partition Visibility	shared
Schema	`inbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/fragmentation/inbound

inbound attributes

```
POST /axapi/v3/cgnv6/lw-4o6/fragmentation/inbound
Payload:
{
    "inbound": {
        "df-set": "drop"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/fragmentation/inbound

inbound attributes

```
GET /axapi/v3/cgnv6/lw-4o6/fragmentation/inbound
Reponse:
{
    "inbound": {
        "df-set": "drop",
        "frag-action": "ipv6",
        "uuid": "c5ed371c-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lw-4o6/fragmentation/inbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/fragmentation/inbound

inbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/lw-4o6/fragmentation/inbound

inbound attributes

```
PUT /axapi/v3/cgnv6/lw-4o6/fragmentation/inbound
Payload:
{
    "inbound": {
        "df-set": "ipv4"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lw-4o6/fragmentation/inbound

inbound attributes

```
DELETE /axapi/v3/cgnv6/lw-4o6/fragmentation/inbound
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

inbound attributes

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv4, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.195 cgnv6 lw-4o6 fragmentation outbound

LW-4O6 fragmentation rules for outbound oversize packets

outbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	outbound
Element URI	/axapi/v3/cgnv6/lw-4o6/fragmentation/outbound
Element Attributes	outbound_attributes
Partition Visibility	shared
Schema	`outbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/fragmentation/outbound

outbound attributes

```
POST /axapi/v3/cgnv6/lw-4o6/fragmentation/outbound
Payload:
{
    "outbound": {
        "df-set": "drop"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/fragmentation/outbound

outbound attributes

```
GET /axapi/v3/cgnv6/lw-4o6/fragmentation/outbound
Reponse:
{
    "outbound": {
        "df-set": "drop",
        "frag-action": "ipv4",
        "uuid": "c5ed37bc-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lw-4o6/fragmentation/outbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/fragmentation/outbound

outbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/lw-4o6/fragmentation/outbound

outbound attributes

```
PUT /axapi/v3/cgnv6/lw-4o6/fragmentation/outbound
Payload:
{
    "outbound": {
        "df-set": "ipv4"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lw-4o6/fragmentation/outbound

outbound attributes

```
DELETE /axapi/v3/cgnv6/lw-4o6/fragmentation/outbound
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

outbound attributes

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set)(default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmp, send-icmpv6

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.196 cgnv6 lw-4o6 global

Configure LW-4over6 parameters

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/lw-4o6/global
Element Attributes	global_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/lw-4o6/global/stats
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/global

global attributes

```
POST /axapi/v3/cgnv6/lw-4o6/global
Payload:
{
    "global": {
        "hairpinning": "filter-all"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/global

global attributes

```
GET /axapi/v3/cgnv6/lw-4o6/global
Reponse:
{
    "global": {
        "hairpinning": "filter-all",
        "icmp-inbound": "handle",
        "no-forward-match": {
            "send-icmpv6": 0
        },
        "no-reverse-match": {
            "send-icmp": 0
        },
        "uuid": "c5ed35be-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lw-4o6/global"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/global

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/lw-4o6/global

global attributes

```
PUT /axapi/v3/cgnv6/lw-4o6/global
Payload:
{
    "global": {
        "hairpinning": "filter-none"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/lw-4o6/global

global attributes

```
DELETE /axapi/v3/cgnv6/lw-4o6/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

global attributes

hairpinning

Description 'filter-all': Disable all Hairpinning; 'filter-none': Allow all Hairpinning (default); 'filter-self-ip': Block Hairpinning to same IP; 'filter-self-ip-port': Block hairpinning to same IP and Port combination;

Type: string

Supported Values: filter-all, filter-none, filter-self-ip, filter-self-ip-port

Default: filter-none

icmp-inbound

Description 'drop': Drop Inbound ICMP packets; 'handle': Handle Inbound ICMP packets(default);

Type: string

Supported Values: drop, handle

Default: handle

inside-src-access-list

Description Access List for inside IPv4 addresses (ACL ID)

Type: number

Range: 1-199

nat-prefix-list

Description Configure LW-4over6 NAT Prefix List (LW-4over6 NAT Prefix Class-list)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

no-forward-match

Description: no-forward-match is a **JSON Block**. Please see below for *no-forward-match*

Type: Object

no-reverse-match

Description: no-reverse-match is a **JSON Block**. Please see below for *no-reverse-match*

Type: Object

sampling-enable

Type: List

use-binding-table

Description Bind LW-4over6 binding table for use (LW-4over6 Binding Table Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

no-forward-match

Specification	Value
Type	*object*

send-icmpv6

Description Send ICMPv6 Type 1 Code 5

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'entry_count': Total Entries Configured; 'self_hairpinning_drop': Self-Hairpinning Drops; 'all_hairpinning_drop': All Hairpinning Drops; 'no_match_icmpv6_sent': No-Forward-Match ICMPv6 Sent; 'no_match_icmp_sent': No-Reverse-Match ICMP Sent; 'icmp_inbound_drop': Inbound ICMP Drops; 'fwd_lookup_failed': Forward Route Lookup Failed; 'rev_lookup_failed': Reverse Route Lookup Failed; 'interface_not_configured': LW-4over6 Interfaces not Configured Drops; 'no_binding_table_matches_fwd': No Forward Binding Table Entry Match Drops; 'no_binding_table_matches_rev': No Reverse Binding Table Entry Match Drops; 'session_count': LW-4over6 Session Count; 'system_address_drop': LW-4over6 System Address Drops;

Type: string

Supported Values: all, entry_count, self_hairpinning_drop, all_hairpinning_drop, no_match_icmpv6_sent, no_match_icmp_sent, icmp_inbound_drop, fwd_lookup_failed, rev_lookup_failed, interface_not_configured, no_binding_table_matches_fwd, no_binding_table_matches_rev, session_count, system_address_drop

no-reverse-match

Specification	Value
Type	*object*

send-icmp

Description Send ICMP Type 3 Code 1

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.26.197 cgnv6 lw-4o6 global stats

Statistics for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/lw-4o6/global/stats
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/global/stats

global attributes

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/global/stats

global attributes

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/global/stats

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/lw-4o6/global/stats

global attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lw-4o6/global/stats

global attributes

global attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

all_hairpinning_drop

Description All Hairpinning Drops

Type: number

Format: counter

entry_count

Description Total Entries Configured

Type: number

Format: counter

fwd_lookup_failed

Description Forward Route Lookup Failed

Type: number

Format: counter

icmp_inbound_drop

Description Inbound ICMP Drops

Type: number

Format: counter

interface_not_configured

Description LW-4over6 Interfaces not Configured Drops

Type: number

Format: counter

no_binding_table_matches_fwd

Description No Forward Binding Table Entry Match Drops

Type: number

Format: counter

no_binding_table_matches_rev

Description No Reverse Binding Table Entry Match Drops

Type: number

Format: counter

no_match_icmp_sent

Description No-Reverse-Match ICMP Sent

Type: number

Format: counter

no_match_icmpv6_sent

Description No-Forward-Match ICMPv6 Sent

Type: number

Format: counter

rev_lookup_failed

Description Reverse Route Lookup Failed

Type: number

Format: counter

self_hairpinning_drop

Description Self-Hairpinning Drops

Type: number

Format: counter

2.26.198 cgnv6 lw-4o6 health-check-gateway

Configure LW-4over6 health-check gateway

health-check-gateway Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ipv4-addr, ipv6-addr*
Collection Name	*health-check-gateway-list*
Collection URI	/axapi/v3/cgnv6/lw-4o6/health-check-gateway
Element Name	health-check-gateway
Element URI	/axapi/v3/cgnv6/lw-4o6/health-check-gateway/{ipv4-addr}+{ipv6-addr}
Element Attributes	health-check-gateway_attributes
Partition Visibility	shared
Schema	`health-check-gateway schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/health-check-gateway

health-check-gateway attributes

```
POST /axapi/v3/cgnv6/lw-4o6/health-check-gateway/
Payload:
{
    "health-check-gateway": {
        "ipv4-addr": "3.3.3.3"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/lw-4o6/health-check-gateway

health-check-gateway attributes

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/health-check-gateway/{ipv4-addr}+{ipv6-addr}

health-check-gateway attributes

```
GET /axapi/v3/cgnv6/lw-4o6/health-check-gateway/3.3.3.3
Reponse:
{
    "health-check-gateway": {
        "ipv4-addr": "3.3.3.3",
        "uuid": "05877480-08ac-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/lw-4o6/health-check-gateway/3.3.3.3"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/lw-4o6/health-check-gateway

health-check-gateway-list

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/health-check-gateway/{ipv4-addr}+{ipv6-addr}

health-check-gateway attributes

Replace Object

PUT

/axapi/v3/cgnv6/lw-4o6/health-check-gateway/{ipv4-addr}+{ipv6-addr}

health-check-gateway attributes

```
PUT /axapi/v3/cgnv6/lw-4o6/health-check-gateway/3.3.3.3
Payload:
{
    "health-check-gateway": {
        "ipv4-addr": "3.3.3.3"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/lw-4o6/health-check-gateway

health-check-gateway-list

Delete Object

DELETE

/axapi/v3/cgnv6/lw-4o6/health-check-gateway/{ipv4-addr}+{ipv6-addr}

health-check-gateway attributes

```
DELETE /axapi/v3/cgnv6/lw-4o6/health-check-gateway/3.3.3.3
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

health-check-gateway-list

health-check-gateway-list is **JSON List** of *health-check-gateway attributes*

health-check-gateway-list : [

{ *health-check-gateway attributes* },

{ *health-check-gateway attributes* },

...

]

health-check-gateway attributes

ipv4-addr

Description LW-4over6 IPv4 Gateway

Type: string

Format: ipv4-address

ipv6-addr

Description LW-4over6 IPv6 Gateway

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.199 cgnv6 lw-4o6 save-binding-table

Save LW-4over6 binding table

save-binding-table Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	save-binding-table
Element URI	/axapi/v3/cgnv6/lw-4o6/save-binding-table
Element Attributes	save-binding-table_attributes
Partition Visibility	None
Schema	`save-binding-table schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/save-binding-table

save-binding-table attributes

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/save-binding-table

save-binding-table attributes

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/save-binding-table

save-binding-table attributes

save-binding-table attributes

2.26.200 cgnv6 lw-4o6 validation-log-files

Get LW-4over6 validation log files

validation-log-files Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	validation-log-files
Element URI	/axapi/v3/cgnv6/lw-4o6/validation-log-files
Element Attributes	validation-log-files_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/lw-4o6/validation-log-files/oper
Schema	`validation-log-files schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/validation-log-files

validation-log-files attributes

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/validation-log-files

validation-log-files attributes

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/validation-log-files

validation-log-files attributes

Replace Object

PUT

/axapi/v3/cgnv6/lw-4o6/validation-log-files

validation-log-files attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lw-4o6/validation-log-files

validation-log-files attributes

validation-log-files attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.201 cgnv6 lw-4o6 validation-log-files oper

Operational Status for the object validation-log-files

validation-log-files Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	validation-log-files
Element URI	/axapi/v3/cgnv6/lw-4o6/validation-log-files/oper
Element Attributes	validation-log-files_attributes
Partition Visibility	None
Schema	`validation-log-files schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/lw-4o6/validation-log-files/oper

validation-log-files attributes

Get Object

GET

/axapi/v3/cgnv6/lw-4o6/validation-log-files/oper

validation-log-files attributes

Modify Object

POST

/axapi/v3/cgnv6/lw-4o6/validation-log-files/oper

validation-log-files attributes

Replace Object

PUT

/axapi/v3/cgnv6/lw-4o6/validation-log-files/oper

validation-log-files attributes

Delete Object

DELETE

/axapi/v3/cgnv6/lw-4o6/validation-log-files/oper

validation-log-files attributes

validation-log-files attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

entry-count

Description

Type: number

entry-list

Type: List

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

name

Description

Type: string

2.26.202 cgnv6 map

Mapping of Address and Port with Translation (MAP)

map Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	map
Element URI	/axapi/v3/cgnv6/map
Element Attributes	map_attributes
Partition Visibility	shared
Schema	`map schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/map

map_attributes

map attributes

encapsulation

Description: encapsulation is a **JSON Block**. Please see below for *encapsulation*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation*

translation

Description: translation is a **JSON Block**. Please see below for *translation*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation*

encapsulation

Specification	Value
Type	*object*

domain-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *encapsulation_fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/fragmentation*

encapsulation_fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *encapsulation_fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *encapsulation_fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound*

encapsulation_fragmentation_inbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv4, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

encapsulation_fragmentation_outbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set)(default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmp, send-icmpv6

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

encapsulation_domain-list

Specification	Value
Type	*list*
Block object keys	

basic-mapping-rule

Description: basic-mapping-rule is a **JSON Block**. Please see below for *encapsulation_domain-list_basic-mapping-rule*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule*

description

Description MAP-E domain description

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

format

Description 'draft-03': Construct IPv6 Interface Identifier according to draft-03;

Type: string

Supported Values: draft-03

health-check-gateway

Description: health-check-gateway is a **JSON Block**. Please see below for *encapsulation_domain-list_health-check-gateway*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}/health-check-gateway*

name

Description MAP-E domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/cgnv6-encap-domain-tmpl*

sampling-enable

Type: List

tunnel-endpoint-address

Description Tunnel Endpoint Address for MAP-E domain

Type: string

Format: ipv6-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

encapsulation_domain-list_basic-mapping-rule

Specification	Value
Type	*object*

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

prefix-rule-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule/{name}*

rule-ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

encapsulation_domain-list_basic-mapping-rule_prefix-rule-list

Specification	Value
Type	*list*
Block object keys	

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

ipv4-netmask

Description Subnet mask (subnet bigger than /8 is not allowed)

Type: string

Format: ipv4-netmask-brief

name

Description MAP BMR prefix rule name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

rule-ipv4-prefix

Description IPv4 prefix of BMR

Type: string

Format: ipv4-address

rule-ipv6-prefix

Description IPv6 prefix of BMR

Type: string

Format: ipv6-address-plen

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

encapsulation_domain-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'inbound_packet_received': Inbound IPv4 Packets Received; 'inbound_frag_packet_received': Inbound IPv4 Fragment Packets Received; 'inbound_addr_port_validation_failed': Inbound IPv4 Destination Address Port Validation Failed; 'inbound_rev_lookup_failed': Inbound IPv4 Reverse Route Lookup Failed; 'inbound_dest_unreachable': Inbound IPv6 Destination Address Unreachable; 'outbound_packet_received': Outbound IPv6 Packets Received; 'outbound_frag_packet_received': Outbound IPv6 Fragment Packets Received; 'outbound_addr_validation_failed': Outbound IPv6 Source Address Validation Failed; 'outbound_rev_lookup_failed': Outbound IPv6 Reverse Route Lookup Failed; 'outbound_dest_unreachable': Outbound IPv4 Destination Address Unreachable; 'packet_mtu_exceeded': Packet Exceeded MTU; 'frag_icmp_sent': ICMP Packet Too Big Sent; 'interface_not_configured': Interfaces not Configured Dropped; 'bmr_prefixrules_configured': BMR prefix rules configured; 'helper_count': Helper Count; 'active_dhcpv6_leases': Active DHCPv6 leases;

Type: string

Supported Values: all, inbound_packet_received, inbound_frag_packet_received, inbound_addr_port_validation_failed, inbound_rev_lookup_failed, inbound_dest_unreachable, outbound_packet_received, outbound_frag_packet_received, outbound_addr_validation_failed, outbound_rev_lookup_failed, outbound_dest_unreachable, packet_mtu_exceeded, frag_icmp_sent, interface_not_configured, bmr_prefixrules_configured, helper_count, active_dhcpv6_leases

encapsulation_domain-list_health-check-gateway

Specification	Value
Type	*object*

address-list

Type: List

ipv6-address-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

withdraw-route

Description 'all-link-failure': Withdraw routes on health-check failure of all IPv4 gateways or all IPv6 gateways; 'any-link-failure': Withdraw routes on health-check failure of any gateway (default);

Type: string

Supported Values: all-link-failure, any-link-failure

Default: any-link-failure

encapsulation_domain-list_health-check-gateway_ipv6-address-list

Specification	Value
Type	*list*
Block object keys	

ipv6-gateway

Description IPv6 Gateway

Type: string

Format: ipv6-address

encapsulation_domain-list_health-check-gateway_address-list

Specification	Value
Type	*list*
Block object keys	

ipv4-gateway

Description IPv4 Gateway

Type: string

Format: ipv4-address

translation

Specification	Value
Type	*object*

default-domain

Description: default-domain is a **JSON Block**. Please see below for *translation_default-domain*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/default-domain*

domain-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *translation_fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/fragmentation*

translation_fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *translation_fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *translation_fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/fragmentation/outbound*

translation_fragmentation_inbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

translation_fragmentation_outbound

Specification	Value
Type	*object*

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

translation_domain-list

Specification	Value
Type	*list*
Block object keys	

basic-mapping-rule

Description: basic-mapping-rule is a **JSON Block**. Please see below for *translation_domain-list_basic-mapping-rule*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule*

default-mapping-rule

Description: default-mapping-rule is a **JSON Block**. Please see below for *translation_domain-list_default-mapping-rule*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/default-mapping-rule*

description

Description MAP-T domain description

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

health-check-gateway

Description: health-check-gateway is a **JSON Block**. Please see below for *translation_domain-list_health-check-gateway*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/health-check-gateway*

mtu

Description Domain MTU

Type: number

name

Description MAP-T domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/cgnv6-map-trans-domain-tmpl*

sampling-enable

Type: List

tcp

Description: tcp is a **JSON Block**. Please see below for *translation_domain-list_tcp*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

translation_domain-list_default-mapping-rule

Specification	Value
Type	*object*

rule-ipv6-prefix

Description Rule IPv6 prefix

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

translation_domain-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'inbound_packet_received': Inbound IPv4 Packets Received; 'inbound_frag_packet_received': Inbound IPv4 Fragment Packets Received; 'inbound_addr_port_validation_failed': Inbound IPv4 Destination Address Port Validation Failed; 'inbound_rev_lookup_failed': Inbound IPv4 Reverse Route Lookup Failed; 'inbound_dest_unreachable': Inbound IPv6 Destination Address Unreachable; 'outbound_packet_received': Outbound IPv6 Packets Received; 'outbound_frag_packet_received': Outbound IPv6 Fragment Packets Received; 'outbound_addr_validation_failed': Outbound IPv6 Source Address Validation Failed; 'outbound_rev_lookup_failed': Outbound IPv6 Reverse Route Lookup Failed; 'outbound_dest_unreachable': Outbound IPv4 Destination Address Unreachable; 'packet_mtu_exceeded': Packet Exceeded MTU; 'frag_icmp_sent': ICMP Packet Too Big Sent; 'interface_not_configured': Interfaces not Configured Dropped; 'bmr_prefixrules_configured': BMR prefix rules configured; 'helper_count': Helper Count; 'active_dhcpv6_leases': Active DHCPv6 leases;

Type: string

Supported Values: all, inbound_packet_received, inbound_frag_packet_received, inbound_addr_port_validation_failed, inbound_rev_lookup_failed, inbound_dest_unreachable, outbound_packet_received, outbound_frag_packet_received, outbound_addr_validation_failed, outbound_rev_lookup_failed, outbound_dest_unreachable, packet_mtu_exceeded, frag_icmp_sent, interface_not_configured, bmr_prefixrules_configured, helper_count, active_dhcpv6_leases

translation_domain-list_tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *translation_domain-list_tcp_mss-clamp*

Type: Object

translation_domain-list_tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: 516))

Type: number

Range: 0-1440

Default: 516

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'none': No TCP MSS clamping(default); 'subtract': Specify the value to subtract from the TCP MSS;

Type: string

Supported Values: fixed, none, subtract

Default: none

mss-subtract

Description Specify the value to subtract from the TCP MSS

Type: number

Range: 0-1440

mss-value

Description The max value allowed for the TCP MSS

Type: number

Range: 0-1440

translation_domain-list_health-check-gateway

Specification	Value
Type	*object*

address-list

Type: List

ipv6-address-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

withdraw-route

Description 'all-link-failure': Withdraw routes on health-check failure of all IPv4 gateways or all IPv6 gateways; 'any-link-failure': Withdraw routes on health-check failure of any gateway (default);

Type: string

Supported Values: all-link-failure, any-link-failure

Default: any-link-failure

translation_domain-list_health-check-gateway_ipv6-address-list

Specification	Value
Type	*list*
Block object keys	

ipv6-gateway

Description IPv6 Gateway

Type: string

Format: ipv6-address

translation_domain-list_health-check-gateway_address-list

Specification	Value
Type	*list*
Block object keys	

ipv4-gateway

Description IPv4 Gateway

Type: string

Format: ipv4-address

translation_domain-list_basic-mapping-rule

Specification	Value
Type	*object*

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

prefix-rule-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule/{name}*

rule-ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

translation_domain-list_basic-mapping-rule_prefix-rule-list

Specification	Value
Type	*list*
Block object keys	

ipv4-netmask

Description Subnet mask (subnet bigger than /8 is not allowed)

Type: string

Format: ipv4-netmask-brief

name

Description MAP BMR prefix rule name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-ipv4-prefix

Description IPv4 prefix of BMR

Type: string

Format: ipv4-address

rule-ipv6-prefix

Description IPv6 prefix of BMR

Type: string

Format: ipv6-address-plen

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

translation_default-domain

Specification	Value
Type	*object*

name

Description MAP-T domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/map/translation/domain*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.203 cgnv6 map encapsulation

MAP Encapsulation (MAP-E)

encapsulation Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	encapsulation
Element URI	/axapi/v3/cgnv6/map/encapsulation
Element Attributes	encapsulation_attributes
Partition Visibility	shared
Schema	`encapsulation schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/map/encapsulation

encapsulation_attributes

encapsulation attributes

domain-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/fragmentation*

fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound*

fragmentation_inbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv4, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fragmentation_outbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set)(default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmp, send-icmpv6

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list

Specification	Value
Type	*list*
Block object keys	

basic-mapping-rule

Description: basic-mapping-rule is a **JSON Block**. Please see below for *domain-list_basic-mapping-rule*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule*

description

Description MAP-E domain description

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

format

Description 'draft-03': Construct IPv6 Interface Identifier according to draft-03;

Type: string

Supported Values: draft-03

health-check-gateway

Description: health-check-gateway is a **JSON Block**. Please see below for *domain-list_health-check-gateway*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}/health-check-gateway*

name

Description MAP-E domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/cgnv6-encap-domain-tmpl*

sampling-enable

Type: List

tunnel-endpoint-address

Description Tunnel Endpoint Address for MAP-E domain

Type: string

Format: ipv6-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list_basic-mapping-rule

Specification	Value
Type	*object*

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

prefix-rule-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule/{name}*

rule-ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list_basic-mapping-rule_prefix-rule-list

Specification	Value
Type	*list*
Block object keys	

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

ipv4-netmask

Description Subnet mask (subnet bigger than /8 is not allowed)

Type: string

Format: ipv4-netmask-brief

name

Description MAP BMR prefix rule name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

rule-ipv4-prefix

Description IPv4 prefix of BMR

Type: string

Format: ipv4-address

rule-ipv6-prefix

Description IPv6 prefix of BMR

Type: string

Format: ipv6-address-plen

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'inbound_packet_received': Inbound IPv4 Packets Received; 'inbound_frag_packet_received': Inbound IPv4 Fragment Packets Received; 'inbound_addr_port_validation_failed': Inbound IPv4 Destination Address Port Validation Failed; 'inbound_rev_lookup_failed': Inbound IPv4 Reverse Route Lookup Failed; 'inbound_dest_unreachable': Inbound IPv6 Destination Address Unreachable; 'outbound_packet_received': Outbound IPv6 Packets Received; 'outbound_frag_packet_received': Outbound IPv6 Fragment Packets Received; 'outbound_addr_validation_failed': Outbound IPv6 Source Address Validation Failed; 'outbound_rev_lookup_failed': Outbound IPv6 Reverse Route Lookup Failed; 'outbound_dest_unreachable': Outbound IPv4 Destination Address Unreachable; 'packet_mtu_exceeded': Packet Exceeded MTU; 'frag_icmp_sent': ICMP Packet Too Big Sent; 'interface_not_configured': Interfaces not Configured Dropped; 'bmr_prefixrules_configured': BMR prefix rules configured; 'helper_count': Helper Count; 'active_dhcpv6_leases': Active DHCPv6 leases;

Type: string

Supported Values: all, inbound_packet_received, inbound_frag_packet_received, inbound_addr_port_validation_failed, inbound_rev_lookup_failed, inbound_dest_unreachable, outbound_packet_received, outbound_frag_packet_received, outbound_addr_validation_failed, outbound_rev_lookup_failed, outbound_dest_unreachable, packet_mtu_exceeded, frag_icmp_sent, interface_not_configured, bmr_prefixrules_configured, helper_count, active_dhcpv6_leases

domain-list_health-check-gateway

Specification	Value
Type	*object*

address-list

Type: List

ipv6-address-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

withdraw-route

Description 'all-link-failure': Withdraw routes on health-check failure of all IPv4 gateways or all IPv6 gateways; 'any-link-failure': Withdraw routes on health-check failure of any gateway (default);

Type: string

Supported Values: all-link-failure, any-link-failure

Default: any-link-failure

domain-list_health-check-gateway_ipv6-address-list

Specification	Value
Type	*list*
Block object keys	

ipv6-gateway

Description IPv6 Gateway

Type: string

Format: ipv6-address

domain-list_health-check-gateway_address-list

Specification	Value
Type	*list*
Block object keys	

ipv4-gateway

Description IPv4 Gateway

Type: string

Format: ipv4-address

2.26.204 cgnv6 map encapsulation domain

MAP Encapsulation domain

domain Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*domain-list*
Collection URI	/axapi/v3/cgnv6/map/encapsulation/domain
Element Name	domain
Element URI	/axapi/v3/cgnv6/map/encapsulation/domain/{name}
Element Attributes	domain_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/map/encapsulation/domain/{name}/stats
Schema	`domain schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/encapsulation/domain

domain attributes

```
POST /axapi/v3/cgnv6/map/encapsulation/domain/
Payload:
{
    "domain": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/map/encapsulation/domain

domain attributes

Get Object

GET

/axapi/v3/cgnv6/map/encapsulation/domain/{name}

domain attributes

```
GET /axapi/v3/cgnv6/map/encapsulation/domain/a
Reponse:
{
    "domain": {
        "name": "a",
        "uuid": "67a691c8-08ac-11f0-951d-a9cf5715f49c",
        "user-tag": "a",
        "a10-url": "/axapi/v3/cgnv6/map/encapsulation/domain/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/map/encapsulation/domain

domain-list

Modify Object

POST

/axapi/v3/cgnv6/map/encapsulation/domain/{name}

domain attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/encapsulation/domain/{name}

domain attributes

```
PUT /axapi/v3/cgnv6/map/encapsulation/domain/a
Payload:
{
    "domain": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/map/encapsulation/domain

domain-list

Delete Object

DELETE

/axapi/v3/cgnv6/map/encapsulation/domain/{name}

domain attributes

```
DELETE /axapi/v3/cgnv6/map/encapsulation/domain/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

domain-list

domain-list is **JSON List** of *domain attributes*

domain-list : [

{ *domain attributes* },

{ *domain attributes* },

...

]

domain attributes

basic-mapping-rule

Description: basic-mapping-rule is a **JSON Block**. Please see below for *basic-mapping-rule*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule*

description

Description MAP-E domain description

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

format

Description 'draft-03': Construct IPv6 Interface Identifier according to draft-03;

Type: string

Supported Values: draft-03

health-check-gateway

Description: health-check-gateway is a **JSON Block**. Please see below for *health-check-gateway*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}/health-check-gateway*

name

Description MAP-E domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/cgnv6-encap-domain-tmpl*

sampling-enable

Type: List

tunnel-endpoint-address

Description Tunnel Endpoint Address for MAP-E domain

Type: string

Format: ipv6-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

basic-mapping-rule

Specification	Value
Type	*object*

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

prefix-rule-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule/{name}*

rule-ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

basic-mapping-rule_prefix-rule-list

Specification	Value
Type	*list*
Block object keys	

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

ipv4-netmask

Description Subnet mask (subnet bigger than /8 is not allowed)

Type: string

Format: ipv4-netmask-brief

name

Description MAP BMR prefix rule name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

rule-ipv4-prefix

Description IPv4 prefix of BMR

Type: string

Format: ipv4-address

rule-ipv6-prefix

Description IPv6 prefix of BMR

Type: string

Format: ipv6-address-plen

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'inbound_packet_received': Inbound IPv4 Packets Received; 'inbound_frag_packet_received': Inbound IPv4 Fragment Packets Received; 'inbound_addr_port_validation_failed': Inbound IPv4 Destination Address Port Validation Failed; 'inbound_rev_lookup_failed': Inbound IPv4 Reverse Route Lookup Failed; 'inbound_dest_unreachable': Inbound IPv6 Destination Address Unreachable; 'outbound_packet_received': Outbound IPv6 Packets Received; 'outbound_frag_packet_received': Outbound IPv6 Fragment Packets Received; 'outbound_addr_validation_failed': Outbound IPv6 Source Address Validation Failed; 'outbound_rev_lookup_failed': Outbound IPv6 Reverse Route Lookup

Failed; 'outbound_dest_unreachable': Outbound IPv4 Destination Address Unreachable; 'packet_mtu_exceeded': Packet Exceeded MTU; 'frag_icmp_sent': ICMP Packet Too Big Sent; 'interface_not_configured': Interfaces not Configured Dropped; 'bmr_prefixrules_configured': BMR prefix rules configured; 'helper_count': Helper Count; 'active_dhcpv6_leases': Active DHCPv6 leases;

Type: string

Supported Values: all, inbound_packet_received, inbound_frag_packet_received, inbound_addr_port_validation_failed, inbound_rev_lookup_failed, inbound_dest_unreachable, outbound_packet_received, outbound_frag_packet_received, outbound_addr_validation_failed, outbound_rev_lookup_failed, outbound_dest_unreachable, packet_mtu_exceeded, frag_icmp_sent, interface_not_configured, bmr_prefixrules_configured, helper_count, active_dhcpv6_leases

health-check-gateway

Specification	Value
Type	*object*

address-list

Type: List

ipv6-address-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

withdraw-route

Description 'all-link-failure': Withdraw routes on health-check failure of all IPv4 gateways or all IPv6 gateways; 'any-link-failure': Withdraw routes on health-check failure of any gateway (default);

Type: string

Supported Values: all-link-failure, any-link-failure

Default: any-link-failure

health-check-gateway_ipv6-address-list

Specification	Value
Type	*list*
Block object keys	

ipv6-gateway

Description IPv6 Gateway

Type: string

Format: ipv6-address

health-check-gateway_address-list

Specification	Value
Type	*list*
Block object keys	

ipv4-gateway

Description IPv4 Gateway

Type: string

Format: ipv4-address

2.26.205 cgnv6 map encapsulation domain basic-mapping-rule

Basic mapping rule (BMR)

basic-mapping-rule Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	basic-mapping-rule
Element URI	/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule
Element Attributes	basic-mapping-rule_attributes
Partition Visibility	shared
Schema	`basic-mapping-rule schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule

basic-mapping-rule attributes

```
POST /axapi/v3/cgnv6/map/encapsulation/domain/a/basic-mapping-rule
Payload:
{
    "basic-mapping-rule": {
        "rule-ipv4-address-port-settings": "prefix-addr",
        "ea-length": 0
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule

basic-mapping-rule attributes

```
GET /axapi/v3/cgnv6/map/encapsulation/domain/a/basic-mapping-rule
Reponse:
{
    "basic-mapping-rule": {
        "rule-ipv4-address-port-settings": "prefix-addr",
        "ea-length": 0,
        "uuid": "a3edea32-08ac-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/map/encapsulation/domain/a/basic-mapping-rule"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule

basic-mapping-rule attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule

basic-mapping-rule attributes

```
PUT /axapi/v3/cgnv6/map/encapsulation/domain/a/basic-mapping-rule
Payload:
{
    "basic-mapping-rule": {
        "rule-ipv4-address-port-settings": "prefix-addr",
        "ea-length": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule

basic-mapping-rule attributes

```
DELETE /axapi/v3/cgnv6/map/encapsulation/domain/a/basic-mapping-rule
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

basic-mapping-rule attributes

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

prefix-rule-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule/{name}*

rule-ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

prefix-rule-list

Specification	Value
Type	*list*
Block object keys	

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

ipv4-netmask

Description Subnet mask (subnet bigger than /8 is not allowed)

Type: string

Format: ipv4-netmask-brief

name

Description MAP BMR prefix rule name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

rule-ipv4-prefix

Description IPv4 prefix of BMR

Type: string

Format: ipv4-address

rule-ipv6-prefix

Description IPv6 prefix of BMR

Type: string

Format: ipv6-address-plen

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.206 cgnv6 map encapsulation domain basic-mapping-rule prefix-rule

IPv6 and IPv4 prefix rules

prefix-rule Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*prefix-rule-list*
Collection URI	/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule
Element Name	prefix-rule
Element URI	/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule/{name}
Element Attributes	prefix-rule_attributes
Partition Visibility	shared
Schema	`prefix-rule schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule

prefix-rule attributes

Create List

POST

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule

prefix-rule attributes

Get Object

GET

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule/{name}

prefix-rule attributes

Get List

GET

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule

prefix-rule-list

Modify Object

POST

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule/{name}

prefix-rule attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule/{name}

prefix-rule attributes

Replace List

PUT

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule

prefix-rule-list

Delete Object

DELETE

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/basic-mapping-rule/prefix-rule/{name}

prefix-rule attributes

prefix-rule-list

prefix-rule-list is **JSON List** of *prefix-rule attributes*

prefix-rule-list : [

{ *prefix-rule attributes* },

{ *prefix-rule attributes* },

...

]

prefix-rule attributes

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

ipv4-netmask

Description Subnet mask (subnet bigger than /8 is not allowed)

Type: string

Format: ipv4-netmask-brief

name

Description MAP BMR prefix rule name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

rule-ipv4-prefix

Description IPv4 prefix of BMR

Type: string

Format: ipv4-address

rule-ipv6-prefix

Description IPv6 prefix of BMR

Type: string

Format: ipv6-address-plen

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.207 cgnv6 map encapsulation domain health-check-gateway

Health-check gateway for route withdrawn

health-check-gateway Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	health-check-gateway
Element URI	/axapi/v3/cgnv6/map/encapsulation/domain/{name}/health-check-gateway
Element Attributes	health-check-gateway_attributes
Partition Visibility	shared
Schema	`health-check-gateway schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/health-check-gateway

health-check-gateway attributes

```
POST /axapi/v3/cgnv6/map/encapsulation/domain/a/health-check-gateway
Payload:
{
    "health-check-gateway": {
        "address-list": [
            {
                "ipv4-gateway": "3.3.3.3"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/health-check-gateway

health-check-gateway attributes

```
GET /axapi/v3/cgnv6/map/encapsulation/domain/a/health-check-gateway
Reponse:
{
    "health-check-gateway": {
        "address-list": [
            {
                "ipv4-gateway": "3.3.3.3"
            }
        ],
        "withdraw-route": "any-link-failure",
        "uuid": "00cdd730-08ad-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/map/encapsulation/domain/a/health-check-gateway"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/health-check-gateway

health-check-gateway attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/health-check-gateway

health-check-gateway attributes

```
PUT /axapi/v3/cgnv6/map/encapsulation/domain/a/health-check-gateway
Payload:
{
    "health-check-gateway": {
```

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```
        "address-list": [
            {
                "ipv4-gateway": "3.3.3.4"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/health-check-gateway

health-check-gateway attributes

```
DELETE /axapi/v3/cgnv6/map/encapsulation/domain/a/health-check-gateway
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

health-check-gateway attributes

address-list

Type: List

ipv6-address-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

withdraw-route

Description 'all-link-failure': Withdraw routes on health-check failure of all IPv4 gateways or all IPv6 gateways; 'any-link-failure': Withdraw routes on health-check failure of any gateway (default);

Type: string

Supported Values: all-link-failure, any-link-failure

Default: any-link-failure

ipv6-address-list

Specification	Value
Type	*list*
Block object keys	

ipv6-gateway

Description IPv6 Gateway

Type: string

Format: ipv6-address

address-list

Specification	Value
Type	*list*
Block object keys	

ipv4-gateway

Description IPv4 Gateway

Type: string

Format: ipv4-address

2.26.208 cgnv6 map encapsulation domain stats

Statistics for the object domain

domain Specification

Parameter	Value
Type	*Collection*
Collection Name	*domain-list*
Collection URI	/axapi/v3/cgnv6/map/encapsulation/domain/{name}
Element Name	domain
Element URI	/axapi/v3/cgnv6/map/encapsulation/domain/{name}/stats
Element Attributes	domain_attributes
Partition Visibility	None
Schema	`domain schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/encapsulation/domain/{name}

domain attributes

Create List

POST

/axapi/v3/cgnv6/map/encapsulation/domain/{name}

domain attributes

Get Object

GET

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/stats

domain attributes

Get List

GET

/axapi/v3/cgnv6/map/encapsulation/domain/{name}

domain-list

Modify Object

POST

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/stats

domain attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/stats

domain attributes

Replace List

PUT

/axapi/v3/cgnv6/map/encapsulation/domain/{name}

domain-list

Delete Object

DELETE

/axapi/v3/cgnv6/map/encapsulation/domain/{name}/stats

domain attributes

domain-list

domain-list is **JSON List** of *domain attributes*

```
domain-list : [
        { domain attributes },
        { domain attributes },
        ...
    ]
```

domain attributes

name

Description MAP-E domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

bmr_prefixrules_configured

Description BMR prefix rules configured

Type: number

Format: counter

frag_icmp_sent

Description ICMP Packet Too Big Sent

Type: number

Format: counter

inbound_addr_port_validation_failed

Description Inbound IPv4 Destination Address Port Validation Failed

Type: number

Format: counter

inbound_dest_unreachable

Description Inbound IPv6 Destination Address Unreachable

Type: number

Format: counter

inbound_frag_packet_received

Description Inbound IPv4 Fragment Packets Received

Type: number

Format: counter

inbound_packet_received

Description Inbound IPv4 Packets Received

Type: number

Format: counter

inbound_rev_lookup_failed

Description Inbound IPv4 Reverse Route Lookup Failed

Type: number

Format: counter

interface_not_configured

Description Interfaces not Configured Dropped

Type: number

Format: counter

outbound_addr_validation_failed

Description Outbound IPv6 Source Address Validation Failed

Type: number

Format: counter

outbound_dest_unreachable

Description Outbound IPv4 Destination Address Unreachable

Type: number

Format: counter

outbound_frag_packet_received

Description Outbound IPv6 Fragment Packets Received

Type: number

Format: counter

outbound_packet_received

Description Outbound IPv6 Packets Received

Type: number

Format: counter

outbound_rev_lookup_failed

Description Outbound IPv6 Reverse Route Lookup Failed

Type: number

Format: counter

packet_mtu_exceeded

Description Packet Exceeded MTU

Type: number

Format: counter

2.26.209 cgnv6 map encapsulation fragmentation

MAP-E fragmentation rules

fragmentation Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	fragmentation
Element URI	/axapi/v3/cgnv6/map/encapsulation/fragmentation
Element Attributes	fragmentation_attributes
Partition Visibility	shared
Schema	`fragmentation schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/map/encapsulation/fragmentation

fragmentation_attributes

fragmentation attributes

inbound

Description: inbound is a **JSON Block**. Please see below for *inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound*

inbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv4, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set)(default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmp, send-icmpv6

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.210 cgnv6 map encapsulation fragmentation inbound

MAP-E fragmentation rules for inbound oversize packets

inbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	inbound
Element URI	/axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound
Element Attributes	inbound_attributes
Partition Visibility	shared
Schema	`inbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound

inbound attributes

```
POST /axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound
Payload:
{
    "inbound": {
        "df-set": "drop"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound

inbound attributes

```
GET /axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound
Reponse:
{
    "inbound": {
        "df-set": "drop",
        "frag-action": "ipv6",
        "uuid": "c5edb016-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound

inbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound

inbound attributes

```
PUT /axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound
Payload:
{
    "inbound": {
        "df-set": "ipv4"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound

inbound attributes

```
DELETE /axapi/v3/cgnv6/map/encapsulation/fragmentation/inbound
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

inbound attributes

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv4, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.211 cgnv6 map encapsulation fragmentation outbound

MAP-E fragmentation rules for outbound oversize packets

outbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	outbound
Element URI	/axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound
Element Attributes	outbound_attributes
Partition Visibility	shared
Schema	`outbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound

outbound attributes

```
POST /axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound
Payload:
{
    "outbound": {
        "df-set": "drop"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound

outbound attributes

```
GET /axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound
Reponse:
{
    "outbound": {
        "df-set": "drop",
        "frag-action": "ipv4",
        "uuid": "c5edb0c0-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound

outbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound

outbound attributes

```
PUT /axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound
Payload:
{
    "outbound": {
        "df-set": "ipv4"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound

outbound attributes

```
DELETE /axapi/v3/cgnv6/map/encapsulation/fragmentation/outbound
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

outbound attributes

df-set

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set)(default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmp, send-icmpv6

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.212 cgnv6 map translation

MAP Translation (MAP-T)

translation Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	translation
Element URI	/axapi/v3/cgnv6/map/translation
Element Attributes	translation_attributes
Partition Visibility	shared
Schema	`translation schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/map/translation

translation_attributes

translation attributes

default-domain

Description: default-domain is a **JSON Block**. Please see below for *default-domain*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/default-domain*

domain-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/fragmentation*

fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/fragmentation/outbound*

fragmentation_inbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fragmentation_outbound

Specification	Value
Type	*object*

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list

Specification	Value
Type	*list*
Block object keys	

basic-mapping-rule

Description: basic-mapping-rule is a **JSON Block**. Please see below for *domain-list_basic-mapping-rule*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule*

default-mapping-rule

Description: default-mapping-rule is a **JSON Block**. Please see below for *domain-list_default-mapping-rule*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/default-mapping-rule*

description

Description MAP-T domain description

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

health-check-gateway

Description: health-check-gateway is a **JSON Block**. Please see below for *domain-list_health-check-gateway*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/health-check-gateway*

mtu

Description Domain MTU

Type: number

name

Description MAP-T domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/cgnv6-map-trans-domain-tmpl*

sampling-enable

Type: List

tcp

Description: tcp is a **JSON Block**. Please see below for *domain-list_tcp*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list_default-mapping-rule

Specification	Value
Type	*object*

rule-ipv6-prefix

Description Rule IPv6 prefix

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'inbound_packet_received': Inbound IPv4 Packets Received; 'inbound_frag_packet_received': Inbound IPv4 Fragment Packets Received; 'inbound_addr_port_validation_failed': Inbound IPv4 Destination Address Port Validation Failed; 'inbound_rev_lookup_failed': Inbound IPv4 Reverse Route Lookup Failed; 'inbound_dest_unreachable': Inbound IPv6 Destination Address Unreachable; 'outbound_packet_received': Outbound IPv6 Packets

Received; 'outbound_frag_packet_received': Outbound IPv6 Fragment Packets Received; 'outbound_addr_validation_failed': Outbound IPv6 Source Address Validation Failed; 'outbound_rev_lookup_failed': Outbound IPv6 Reverse Route Lookup Failed; 'outbound_dest_unreachable': Outbound IPv4 Destination Address Unreachable; 'packet_mtu_exceeded': Packet Exceeded MTU; 'frag_icmp_sent': ICMP Packet Too Big Sent; 'interface_not_configured': Interfaces not Configured Dropped; 'bmr_prefixrules_configured': BMR prefix rules configured; 'helper_count': Helper Count; 'active_dhcpv6_leases': Active DHCPv6 leases;

Type: string

Supported Values: all, inbound_packet_received, inbound_frag_packet_received, inbound_addr_port_validation_failed, inbound_rev_lookup_failed, inbound_dest_unreachable, outbound_packet_received, outbound_frag_packet_received, outbound_addr_validation_failed, outbound_rev_lookup_failed, outbound_dest_unreachable, packet_mtu_exceeded, frag_icmp_sent, interface_not_configured, bmr_prefixrules_configured, helper_count, active_dhcpv6_leases

domain-list_tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *domain-list_tcp_mss-clamp*

Type: Object

domain-list_tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: 516))

Type: number

Range: 0-1440

Default: 516

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'none': No TCP MSS clamping(default); 'subtract': Specify the value to subtract from the TCP MSS;

Type: string

Supported Values: fixed, none, subtract

Default: none

mss-subtract

Description Specify the value to subtract from the TCP MSS

Type: number

Range: 0-1440

mss-value

Description The max value allowed for the TCP MSS

Type: number

Range: 0-1440

domain-list_health-check-gateway

Specification	Value
Type	*object*

address-list

Type: List

ipv6-address-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

withdraw-route

Description 'all-link-failure': Withdraw routes on health-check failure of all IPv4 gateways or all IPv6 gateways; 'any-link-failure': Withdraw routes on health-check failure of any gateway (default);

Type: string

Supported Values: all-link-failure, any-link-failure

Default: any-link-failure

domain-list_health-check-gateway_ipv6-address-list

Specification	Value
Type	*list*
Block object keys	

ipv6-gateway

Description IPv6 Gateway

Type: string

Format: ipv6-address

domain-list_health-check-gateway_address-list

Specification	Value
Type	*list*
Block object keys	

ipv4-gateway

Description IPv4 Gateway

Type: string

Format: ipv4-address

domain-list_basic-mapping-rule

Specification	Value
Type	*object*

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

prefix-rule-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule/{name}*

rule-ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list_basic-mapping-rule_prefix-rule-list

Specification	Value
Type	*list*
Block object keys	

ipv4-netmask

Description Subnet mask (subnet bigger than /8 is not allowed)

Type: string

Format: ipv4-netmask-brief

name

Description MAP BMR prefix rule name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-ipv4-prefix

Description IPv4 prefix of BMR

Type: string

Format: ipv4-address

rule-ipv6-prefix

Description IPv6 prefix of BMR

Type: string

Format: ipv6-address-plen

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

default-domain

Specification	Value
Type	*object*

name

Description MAP-T domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/map/translation/domain*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.213 cgnv6 map translation default-domain

Set Default MAP-T domain

default-domain Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	default-domain
Element URI	/axapi/v3/cgnv6/map/translation/default-domain
Element Attributes	default-domain_attributes
Partition Visibility	shared
Schema	`default-domain schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/translation/default-domain

default-domain attributes

Get Object

GET

/axapi/v3/cgnv6/map/translation/default-domain

default-domain attributes

Modify Object

POST

/axapi/v3/cgnv6/map/translation/default-domain

default-domain attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/translation/default-domain

default-domain attributes

Delete Object

DELETE

/axapi/v3/cgnv6/map/translation/default-domain

default-domain attributes

default-domain attributes

name

Description MAP-T domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/map/translation/domain*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.214 cgnv6 map translation domain

MAP Translation domain

domain Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*domain-list*
Collection URI	/axapi/v3/cgnv6/map/translation/domain
Element Name	domain
Element URI	/axapi/v3/cgnv6/map/translation/domain/{name}
Element Attributes	domain_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/map/translation/domain/{name}/stats
Schema	`domain schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/translation/domain

domain attributes

```
POST /axapi/v3/cgnv6/map/translation/domain/
Payload:
{
    "domain": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/map/translation/domain

domain attributes

Get Object

GET

/axapi/v3/cgnv6/map/translation/domain/{name}

domain attributes

```
GET /axapi/v3/cgnv6/map/translation/domain/a
Reponse:
```

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```
{
    "domain": {
        "name": "a",
        "tcp": {
            "mss-clamp": {
                "mss-clamp-type": "none"
            }
        },
        "uuid": "9d4d50b8-08ad-11f0-951d-a9cf5715f49c",
        "user-tag": "a",
        "a10-url": "/axapi/v3/cgnv6/map/translation/domain/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/map/translation/domain

domain-list

Modify Object

POST

/axapi/v3/cgnv6/map/translation/domain/{name}

domain attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/translation/domain/{name}

domain attributes

```
PUT /axapi/v3/cgnv6/map/translation/domain/a
Payload:
{
    "domain": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/map/translation/domain

domain-list

Delete Object

DELETE

/axapi/v3/cgnv6/map/translation/domain/{name}

domain attributes

```
DELETE /axapi/v3/cgnv6/map/translation/domain/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

domain-list

domain-list is **JSON List** of *domain attributes*

domain-list : [

{ *domain attributes* },

{ *domain attributes* },

...

]

domain attributes

basic-mapping-rule

Description: basic-mapping-rule is a **JSON Block**. Please see below for *basic-mapping-rule*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule*

default-mapping-rule

Description: default-mapping-rule is a **JSON Block**. Please see below for *default-mapping-rule*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/default-mapping-rule*

description

Description MAP-T domain description

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

health-check-gateway

Description: health-check-gateway is a **JSON Block**. Please see below for *health-check-gateway*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/health-check-gateway*

mtu

Description Domain MTU

Type: number

name

Description MAP-T domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/cgnv6-map-trans-domain-tmpl*

sampling-enable

Type: List

tcp

Description: tcp is a **JSON Block**. Please see below for *tcp*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

default-mapping-rule

Specification	Value
Type	*object*

rule-ipv6-prefix

Description Rule IPv6 prefix

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'inbound_packet_received': Inbound IPv4 Packets Received; 'inbound_frag_packet_received': Inbound IPv4 Fragment Packets Received; 'inbound_addr_port_validation_failed': Inbound IPv4 Destination Address Port Validation Failed; 'inbound_rev_lookup_failed': Inbound IPv4 Reverse Route Lookup Failed; 'inbound_dest_unreachable': Inbound IPv6 Destination Address Unreachable; 'outbound_packet_received': Outbound IPv6 Packets Received; 'outbound_frag_packet_received': Outbound IPv6 Fragment Packets Received; 'outbound_addr_validation_failed': Outbound IPv6 Source Address Validation Failed; 'outbound_rev_lookup_failed': Outbound IPv6 Reverse Route Lookup Failed; 'outbound_dest_unreachable': Outbound IPv4 Destination Address Unreachable; 'packet_mtu_exceeded': Packet Exceeded MTU; 'frag_icmp_sent': ICMP Packet Too Big Sent; 'interface_not_configured': Interfaces not Configured Dropped; 'bmr_prefixrules_configured': BMR prefix rules configured; 'helper_count': Helper Count; 'active_dhcpv6_leases': Active DHCPv6 leases;

Type: string

Supported Values: all, inbound_packet_received, inbound_frag_packet_received, inbound_addr_port_validation_failed, inbound_rev_lookup_failed, inbound_dest_unreachable, outbound_packet_received, outbound_frag_packet_received, outbound_addr_validation_failed, outbound_rev_lookup_failed, outbound_dest_unreachable, packet_mtu_exceeded, frag_icmp_sent, interface_not_configured, bmr_prefixrules_configured, helper_count, active_dhcpv6_leases

tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *tcp_mss-clamp*

Type: Object

tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: 516))

Type: number

Range: 0-1440

Default: 516

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'none': No TCP MSS clamping(default); 'subtract': Specify the value to subtract from the TCP MSS;

Type: string

Supported Values: fixed, none, subtract

Default: none

mss-subtract

Description Specify the value to subtract from the TCP MSS

Type: number

Range: 0-1440

mss-value

Description The max value allowed for the TCP MSS

Type: number

Range: 0-1440

health-check-gateway

Specification	Value
Type	*object*

address-list

Type: List

ipv6-address-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

withdraw-route

Description 'all-link-failure': Withdraw routes on health-check failure of all IPv4 gateways or all IPv6 gateways; 'any-link-failure': Withdraw routes on health-check failure of any gateway (default);

Type: string

Supported Values: all-link-failure, any-link-failure

Default: any-link-failure

health-check-gateway_ipv6-address-list

Specification	Value
Type	*list*
Block object keys	

ipv6-gateway

Description IPv6 Gateway

Type: string

Format: ipv6-address

health-check-gateway_address-list

Specification	Value
Type	*list*
Block object keys	

ipv4-gateway

Description IPv4 Gateway

Type: string

Format: ipv4-address

basic-mapping-rule

Specification	Value
Type	*object*

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

prefix-rule-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule/{name}*

rule-ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

basic-mapping-rule_prefix-rule-list

Specification	Value
Type	*list*
Block object keys	

ipv4-netmask

Description Subnet mask (subnet bigger than /8 is not allowed)

Type: string

Format: ipv4-netmask-brief

name

Description MAP BMR prefix rule name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-ipv4-prefix

Description IPv4 prefix of BMR

Type: string

Format: ipv4-address

rule-ipv6-prefix

Description IPv6 prefix of BMR

Type: string

Format: ipv6-address-plen

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.215 cgnv6 map translation domain basic-mapping-rule

Basic mapping rule (BMR)

basic-mapping-rule Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	basic-mapping-rule
Element URI	/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule
Element Attributes	basic-mapping-rule_attributes
Partition Visibility	shared
Schema	`basic-mapping-rule schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule

basic-mapping-rule attributes

```
POST /axapi/v3/cgnv6/map/translation/domain/a/basic-mapping-rule
Payload:
{
    "basic-mapping-rule": {
        "rule-ipv4-address-port-settings": "prefix-addr",
        "ea-length": 0
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule

basic-mapping-rule attributes

```
GET /axapi/v3/cgnv6/map/translation/domain/a/basic-mapping-rule
Reponse:
{
    "basic-mapping-rule": {
        "rule-ipv4-address-port-settings": "prefix-addr",
```

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```
        "ea-length": 0,
        "uuid": "1b610f4e-08ae-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/map/translation/domain/a/basic-mapping-rule"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule

basic-mapping-rule attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule

basic-mapping-rule attributes

```
PUT /axapi/v3/cgnv6/map/translation/domain/a/basic-mapping-rule
Payload:
{
    "basic-mapping-rule": {
        "rule-ipv4-address-port-settings": "prefix-addr",
        "ea-length": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule

basic-mapping-rule attributes

```
DELETE /axapi/v3/cgnv6/map/translation/domain/a/basic-mapping-rule
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

basic-mapping-rule attributes

ea-length

Description Length of Embedded Address (EA) bits

Type: number

Range: 0-23

port-start

Description Starting Port, Must be Power of 2 value or zero

Type: number

Range: 0-32768

prefix-rule-list

Type: List

Reference Object: */axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule/{name}*

rule-ipv4-address-port-settings

Description 'prefix-addr': Each CE is assigned an IPv4 prefix; 'single-addr': Each CE is assigned an IPv4 address; 'shared-addr': Each CE is assigned a shared IPv4 address;

Type: string

Supported Values: prefix-addr, single-addr, shared-addr

share-ratio

Description Port sharing ratio for each NAT IP. Must be Power of 2 value

Type: number

Range: 1-65536

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

prefix-rule-list

Specification	Value
Type	*list*
Block object keys	

ipv4-netmask

Description Subnet mask (subnet bigger than /8 is not allowed)

Type: string

Format: ipv4-netmask-brief

name

Description MAP BMR prefix rule name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-ipv4-prefix

Description IPv4 prefix of BMR

Type: string

Format: ipv4-address

rule-ipv6-prefix

Description IPv6 prefix of BMR

Type: string

Format: ipv6-address-plen

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.216 cgnv6 map translation domain basic-mapping-rule prefix-rule

IPv6 and IPv4 prefix rules

prefix-rule Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*prefix-rule-list*
Collection URI	/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule
Element Name	prefix-rule
Element URI	/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule/{name}
Element Attributes	prefix-rule_attributes
Partition Visibility	shared
Schema	`prefix-rule schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule

prefix-rule attributes

Create List

POST

/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule

prefix-rule attributes

Get Object

GET

/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule/{name}

prefix-rule attributes

Get List

GET

/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule

prefix-rule-list

Modify Object

POST

/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule/{name}

prefix-rule attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule/{name}

prefix-rule attributes

Replace List

PUT

/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule

prefix-rule-list

Delete Object

DELETE

/axapi/v3/cgnv6/map/translation/domain/{name}/basic-mapping-rule/prefix-rule/{name}

prefix-rule attributes

prefix-rule-list

prefix-rule-list is **JSON List** of *prefix-rule attributes*

prefix-rule-list : [

{ *prefix-rule attributes* },

{ *prefix-rule attributes* },

...

]

prefix-rule attributes

ipv4-netmask

Description Subnet mask (subnet bigger than /8 is not allowed)

Type: string

Format: ipv4-netmask-brief

name

Description MAP BMR prefix rule name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

rule-ipv4-prefix

Description IPv4 prefix of BMR

Type: string

Format: ipv4-address

rule-ipv6-prefix

Description IPv6 prefix of BMR

Type: string

Format: ipv6-address-plen

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.217 cgnv6 map translation domain default-mapping-rule

Default mapping rule (DMR)

default-mapping-rule Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	default-mapping-rule
Element URI	/axapi/v3/cgnv6/map/translation/domain/{name}/default-mapping-rule
Element Attributes	default-mapping-rule_attributes
Partition Visibility	shared
Schema	`default-mapping-rule schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/translation/domain/{name}/default-mapping-rule

default-mapping-rule attributes

```
POST /axapi/v3/cgnv6/map/translation/domain/a/default-mapping-rule
Payload:
{
    "default-mapping-rule": {
        "rule-ipv6-prefix": "2003::1/64"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/map/translation/domain/{name}/default-mapping-rule

default-mapping-rule attributes

```
GET /axapi/v3/cgnv6/map/translation/domain/a/default-mapping-rule
Reponse:
{
    "default-mapping-rule": {
        "rule-ipv6-prefix": "2003::1/64",
        "uuid": "93641662-08ae-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/map/translation/domain/a/default-mapping-rule"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/map/translation/domain/{name}/default-mapping-rule

default-mapping-rule attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/translation/domain/{name}/default-mapping-rule

default-mapping-rule attributes

```
PUT /axapi/v3/cgnv6/map/translation/domain/a/default-mapping-rule
Payload:
{
    "default-mapping-rule": {
        "rule-ipv6-prefix": "2003::1/64"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/map/translation/domain/{name}/default-mapping-rule

default-mapping-rule attributes

```
DELETE /axapi/v3/cgnv6/map/translation/domain/a/default-mapping-rule
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

default-mapping-rule attributes

rule-ipv6-prefix

Description Rule IPv6 prefix

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.218 cgnv6 map translation domain health-check-gateway

Health-check gateway for route withdrawn

health-check-gateway Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	health-check-gateway
Element URI	/axapi/v3/cgnv6/map/translation/domain/{name}/health-check-gateway
Element Attributes	health-check-gateway_attributes
Partition Visibility	shared
Schema	`health-check-gateway schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/translation/domain/{name}/health-check-gateway

health-check-gateway attributes

```
POST /axapi/v3/cgnv6/map/translation/domain/a/health-check-gateway
Payload:
{
    "health-check-gateway": {
        "address-list": [
            {
```

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```
                "ipv4-gateway": "3.3.3.3"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/map/translation/domain/{name}/health-check-gateway

health-check-gateway attributes

```
GET /axapi/v3/cgnv6/map/translation/domain/a/health-check-gateway
Reponse:
{
    "health-check-gateway": {
        "address-list": [
            {
                "ipv4-gateway": "3.3.3.3"
            }
        ],
        "withdraw-route": "any-link-failure",
        "uuid": "aeaf1fc0-08ae-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/map/translation/domain/a/health-check-gateway"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/map/translation/domain/{name}/health-check-gateway

health-check-gateway attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/translation/domain/{name}/health-check-gateway

health-check-gateway attributes

```
PUT /axapi/v3/cgnv6/map/translation/domain/a/health-check-gateway
Payload:
{
    "health-check-gateway": {
        "address-list": [
            {
                "ipv4-gateway": "3.3.3.4"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/map/translation/domain/{name}/health-check-gateway

health-check-gateway attributes

```
DELETE /axapi/v3/cgnv6/map/translation/domain/a/health-check-gateway
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

health-check-gateway attributes

address-list

Type: List

ipv6-address-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

withdraw-route

Description 'all-link-failure': Withdraw routes on health-check failure of all IPv4 gateways or all IPv6 gateways; 'any-link-failure': Withdraw routes on health-check failure of any gateway (default);

Type: string

Supported Values: all-link-failure, any-link-failure

Default: any-link-failure

ipv6-address-list

Specification	Value
Type	*list*
Block object keys	

ipv6-gateway

Description IPv6 Gateway

Type: string

Format: ipv6-address

address-list

Specification	Value
Type	*list*
Block object keys	

ipv4-gateway

Description IPv4 Gateway

Type: string

Format: ipv4-address

2.26.219 cgnv6 map translation domain stats

Statistics for the object domain

domain Specification

Parameter	Value
Type	*Collection*
Collection Name	*domain-list*
Collection URI	/axapi/v3/cgnv6/map/translation/domain/{name}
Element Name	domain
Element URI	/axapi/v3/cgnv6/map/translation/domain/{name}/stats
Element Attributes	domain_attributes
Partition Visibility	None
Schema	`domain schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/translation/domain/{name}

domain attributes

Create List

POST

/axapi/v3/cgnv6/map/translation/domain/{name}

domain attributes

Get Object

GET

/axapi/v3/cgnv6/map/translation/domain/{name}/stats

domain attributes

Get List

GET

/axapi/v3/cgnv6/map/translation/domain/{name}

domain-list

Modify Object

POST

/axapi/v3/cgnv6/map/translation/domain/{name}/stats

domain attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/translation/domain/{name}/stats

domain attributes

Replace List

PUT

/axapi/v3/cgnv6/map/translation/domain/{name}

domain-list

Delete Object

DELETE

/axapi/v3/cgnv6/map/translation/domain/{name}/stats

domain attributes

domain-list

domain-list is **JSON List** of *domain attributes*

domain-list : [

{ *domain attributes* },

{ *domain attributes* },

...

]

domain attributes

name

Description MAP-T domain name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

bmr_prefixrules_configured

Description BMR prefix rules configured

Type: number

Format: counter

frag_icmp_sent

Description ICMP Packet Too Big Sent

Type: number

Format: counter

inbound_addr_port_validation_failed

Description Inbound IPv4 Destination Address Port Validation Failed

Type: number

Format: counter

inbound_dest_unreachable

Description Inbound IPv6 Destination Address Unreachable

Type: number

Format: counter

inbound_frag_packet_received

Description Inbound IPv4 Fragment Packets Received

Type: number

Format: counter

inbound_packet_received

Description Inbound IPv4 Packets Received

Type: number

Format: counter

inbound_rev_lookup_failed

Description Inbound IPv4 Reverse Route Lookup Failed

Type: number

Format: counter

interface_not_configured

Description Interfaces not Configured Dropped

Type: number

Format: counter

outbound_addr_validation_failed

Description Outbound IPv6 Source Address Validation Failed

Type: number

Format: counter

outbound_dest_unreachable

Description Outbound IPv4 Destination Address Unreachable

Type: number

Format: counter

outbound_frag_packet_received

Description Outbound IPv6 Fragment Packets Received

Type: number

Format: counter

outbound_packet_received

Description Outbound IPv6 Packets Received

Type: number

Format: counter

outbound_rev_lookup_failed

Description Outbound IPv6 Reverse Route Lookup Failed

Type: number

Format: counter

packet_mtu_exceeded

Description Packet Exceeded MTU

Type: number

Format: counter

2.26.220 cgnv6 map translation fragmentation

MAP-T fragmentation rules

fragmentation Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	fragmentation
Element URI	/axapi/v3/cgnv6/map/translation/fragmentation
Element Attributes	fragmentation_attributes
Partition Visibility	shared
Schema	`fragmentation schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/map/translation/fragmentation

fragmentation_attributes

fragmentation attributes

inbound

Description: inbound is a **JSON Block**. Please see below for *inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/map/translation/fragmentation/outbound*

inbound

Specification	Value
Type	*object*

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound

Specification	Value
Type	*object*

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.221 cgnv6 map translation fragmentation inbound

MAP-T fragmentation rules for inbound oversize packets

inbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	inbound
Element URI	/axapi/v3/cgnv6/map/translation/fragmentation/inbound
Element Attributes	inbound_attributes
Partition Visibility	shared
Schema	`inbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/translation/fragmentation/inbound

inbound attributes

```
POST /axapi/v3/cgnv6/map/translation/fragmentation/inbound
Payload:
{
    "inbound": {
        "df-set": "drop"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/map/translation/fragmentation/inbound

inbound attributes

```
GET /axapi/v3/cgnv6/map/translation/fragmentation/inbound
Reponse:
{
    "inbound": {
        "df-set": "drop",
        "frag-action": "ipv6",
        "uuid": "c5edae40-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/map/translation/fragmentation/inbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/map/translation/fragmentation/inbound

inbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/translation/fragmentation/inbound

inbound attributes

```
PUT /axapi/v3/cgnv6/map/translation/fragmentation/inbound
Payload:
{
    "inbound": {
        "df-set": "ipv6"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/map/translation/fragmentation/inbound

inbound attributes

```
DELETE /axapi/v3/cgnv6/map/translation/fragmentation/inbound
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

inbound attributes

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.222 cgnv6 map translation fragmentation outbound

MAP-T fragmentation rules for outbound oversize packets

outbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	outbound
Element URI	/axapi/v3/cgnv6/map/translation/fragmentation/outbound
Element Attributes	outbound_attributes
Partition Visibility	shared
Schema	`outbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/map/translation/fragmentation/outbound

outbound attributes

```
POST /axapi/v3/cgnv6/map/translation/fragmentation/outbound
Payload:
{
    "outbound": {
        "frag-action": "drop"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/map/translation/fragmentation/outbound

outbound attributes

```
GET /axapi/v3/cgnv6/map/translation/fragmentation/outbound
Reponse:
{
    "outbound": {
        "frag-action": "drop",
        "uuid": "c5edaee0-0890-11f0-a250-a9cf5715f49c",
```

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```
        "a10-url": "/axapi/v3/cgnv6/map/translation/fragmentation/outbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/map/translation/fragmentation/outbound

outbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/map/translation/fragmentation/outbound

outbound attributes

```
PUT /axapi/v3/cgnv6/map/translation/fragmentation/outbound
Payload:
{
    "outbound": {
        "frag-action": "drop"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/map/translation/fragmentation/outbound

outbound attributes

```
DELETE /axapi/v3/cgnv6/map/translation/fragmentation/outbound
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

outbound attributes

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.223 cgnv6 nat

Configure CGNv6 NAT

nat Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	nat
Element URI	/axapi/v3/cgnv6/nat
Element Attributes	nat_attributes
Partition Visibility	shared
Schema	`nat schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/nat

nat_attributes

nat attributes

exclude-port

Description: exclude-port is a **JSON Block**. Please see below for *exclude-port*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/exclude-port*

histogram

Description: histogram is a **JSON Block**. Please see below for *histogram*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/histogram*

icmp

Description: icmp is a **JSON Block**. Please see below for *icmp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/icmp*

icmpv6

Description: icmpv6 is a **JSON Block**. Please see below for *icmpv6*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/icmpv6*

inside

Description: inside is a **JSON Block**. Please see below for *inside*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/inside*

pool-group-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat/pool-group/{pool-group-name}*

pool-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat/pool/{pool-name}*

range-list-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat/range-list/{name}+{partition}*

shared-pool

Description: shared-pool is a **JSON Block**. Please see below for *shared-pool*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/shared-pool*

shared-pool-group

Description: shared-pool-group is a **JSON Block**. Please see below for *shared-pool-group*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/shared-pool-group*

shared-pool

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

shared-pool-group

Specification	Value
Type	*object*

members

Description: members is a **JSON Block**. Please see below for *shared-pool-group_members*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/shared-pool-group/members*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

shared-pool-group_members

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pool-group-list

Specification	Value
Type	*list*
Block object keys	

member-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat/pool-group/{pool-group-name}/member/{pool-name}*

pool-group-name

Description Specify pool group name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Specify VRRP-A vrid

Type: number

Range: 1-31

pool-group-list_member-list

Specification	Value
Type	*list*
Block object keys	

pool-name

Description Specify CGNv6 NAT pool name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

histogram

Specification	Value
Type	*object*

bin-count

Description Number of bins in the histogram (default: 50)

Type: number

Range: 10-100

Default: 50

bin-skew

Description Percentage of bins that represent the upper bound (default: 75)

Type: number

Range: 50-80

Default: 75

data-skew

Description Percentage of data that represents the upper bound (default: 25)

Type: number

Range: 5-50

Default: 25

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmpv6

Specification	Value
Type	*object*

respond-to-ping

Description Respond to ICMPv6 echo requests to NAT pool IPs (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

range-list-list

Specification	Value
Type	*list*
Block object keys	

global-netmaskv4

Description Mask for this Address range

Type: string

Format: ipv4-netmask

global-start-ipv4-addr

Description Global Start IPv4 Address of this list

Type: string

Format: ipv4-address

local-netmaskv4

Description Mask for this Address range

Type: string

Format: ipv4-netmask

local-start-ipv4-addr

Description Local Start IPv4 Address of this list

Type: string

Format: ipv4-address

name

Description Name for this Static List

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-count

Description Number of addresses to be translated in this range

Type: number

Range: 1-200000

v4-vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

exclude-port

Specification	Value
Type	*object*

tcp

Description: tcp is a **JSON Block**. Please see below for *exclude-port_tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/exclude-port/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *exclude-port_udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/exclude-port/udp*

exclude-port_udp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

exclude-port_udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

exclude-port_tcp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

exclude-port_tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

icmp

Specification	Value
Type	*object*

always-source-nat-errors

Description Source NAT intermediate routers' IPs for ICMP errors (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

respond-to-ping

Description Respond to ICMP echo requests to NAT pool IPs (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

inside

Specification	Value
Type	*object*

source

Description: source is a **JSON Block**. Please see below for *inside_source*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/inside/source*

inside_source

Specification	Value
Type	*object*

static-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat/inside/source/static/{src-address}+{partition}*

statistics

Description: statistics is a **JSON Block**. Please see below for *inside_source_statistics*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/inside/source/statistics*

inside_source_statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

inside_source_static-list

Specification	Value
Type	*list*
Block object keys	

nat-address

Description NAT Address

Type: string

Format: ipv4-address

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

src-address

Description Original Source Address

Type: string

Format: ipv4-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

pool-list

Specification	Value
Type	*list*
Block object keys	

all

Description Share with all partitions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

end-address

Description Configure end IP address of NAT pool

Type: string

Format: ipv4-address

exclude-ip

Type: List

group

Description Share with a partition group (Partition Group Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

max-users-per-ip

Description Number of users that can be assigned to a NAT IP

Type: number

Range: 1-64512

netmask

Description Configure mask for pool

Type: string

Format: ipv4-netmask-brief

partition

Description Share with a single partition (Partition Name)

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

per-batch-port-usage-warning-threshold

Description Configure warning log threshold for per batch port usage (default: disabled) (Number of ports)

Type: number

Range: 32-4096

pool-name

Description Specify pool name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-batch-v2-size

Description '64': Allocate 64 ports at a time; '128': Allocate 128 ports at a time; '256': Allocate 256 ports at a time; '512': Allocate 512 ports at a time; '1024': Allocate 1024 ports at a time; '2048': Allocate 2048 ports at a time; '4096': Allocate 4096 ports at a time;

Type: string

Supported Values: 64, 128, 256, 512, 1024, 2048, 4096

service-config-template

Description Service-template name to bind

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description Share this pool with other partitions (default: not shared)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

simultaneous-batch-allocation

Description Allocate same TCP and UDP batches at once

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-address

Description Configure start IP address of NAT pool

Type: string

Format: ipv4-address

tcp-time-wait-interval

Description Minutes before TCP NAT ports can be reused

Type: number

Range: 0-10

usable-nat-ports

Description Configure usable NAT ports

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports-end

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-nat-ports-start

Description Start Port of Usable NAT Ports (needs to be even)

Type: number

Range: 1024-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Configure VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

pool-list_exclude-ip

Specification	Value
Type	*list*
Block object keys	

exclude-ip-end

Description Address range end

Type: string

Format: ipv4-address

exclude-ip-start

Description Single IP address or IP address range start

Type: string

Format: ipv4-address

2.26.224 cgnv6 nat46-stateless

Configure Stateless NAT46

nat46-stateless Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	nat46-stateless
Element URI	/axapi/v3/cgnv6/nat46-stateless
Element Attributes	nat46-stateless_attributes
Partition Visibility	shared
Schema	`nat46-stateless schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/nat46-stateless

nat46-stateless_attributes

nat46-stateless attributes

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat46-stateless/fragmentation*

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat46-stateless/global*

partition-prefix-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat46-stateless/partition-prefix/{partition}*

prefix

Description: prefix is a **JSON Block**. Please see below for *prefix*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat46-stateless/prefix*

static-dest-mapping-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat46-stateless/static-dest-mapping/{v4-address}+{v6-address}*

static-dest-mapping-list

Specification	Value
Type	*list*
Block object keys	

count

Description Set number of consecutive mappings (Number of mappings)

Type: number

shared

Description Share/Expose this mapping with other partitions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

to-shared

Description Send NATed traffic through shared partition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-address

Description IPv4 address

Type: string

Format: ipv4-address

v6-address

Description IPv6 address

Type: string

Format: ipv6-address

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound*

fragmentation_inbound

Specification	Value
Type	*object*

action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fragmentation_outbound

Specification	Value
Type	*object*

action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv6

Default: ipv6

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv6, send-icmp

Default: send-icmp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global

Specification	Value
Type	*object*

sampling-enable

Type: List

tcp

Description: tcp is a **JSON Block**. Please see below for *global_tcp*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'outbound_ipv4_received': Outbound IPv4 packets received; 'outbound_ipv4_drop': Outbound IPv4 packets dropped; 'outbound_ipv4_fragment_received': Outbound IPv4 fragment packets received; 'outbound_ipv6_unreachable': Outbound IPv6 destination unreachable; 'outbound_ipv6_fragmented': Outbound IPv6 packets fragmented; 'inbound_ipv6_received': Inbound IPv6 packets received; 'inbound_ipv6_drop': Inbound IPv6 packets dropped; 'inbound_ipv6_fragment_received': Inbound IPv6 fragment packets received; 'inbound_ipv4_unreachable': Inbound IPv4 destination unreachable; 'inbound_ipv4_fragmented': Inbound IPv4 packets fragmented; 'packet_too_big': Packet too big; 'fragment_error': Fragment processing errors; 'icmpv6_to_icmp': ICMPv6 to ICMP; 'icmpv6_to_icmp_error': ICMPv6 to ICMP errors; 'icmp_to_icmpv6': ICMP to ICMPv6; 'icmp_to_icmpv6_error': ICMP to ICMPv6 errors; 'ha_standby': HA is standby; 'other_error': Other errors; 'conn_count': conn count;

Type: string

Supported Values: all, outbound_ipv4_received, outbound_ipv4_drop, outbound_ipv4_fragment_received, outbound_ipv6_unreachable, outbound_ipv6_fragmented, inbound_ipv6_received, inbound_ipv6_drop, inbound_ipv6_fragment_received, inbound_ipv4_unreachable, inbound_ipv4_fragmented, packet_too_big, fragment_error, icmpv6_to_icmp, icmpv6_to_icmp_error, icmp_to_icmpv6, icmp_to_icmpv6_error, ha_standby, other_error, conn_count

global_tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *global_tcp_mss-clamp*

Type: Object

global_tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: ((576 - 60 - 60))))

Type: number

Range: 0-1420

Default: 456

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'none': No TCP MSS clamping; 'subtract': Specify the value to subtract from the TCP MSS (default: 20);

Type: string

Supported Values: fixed, none, subtract

Default: subtract

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: 20)

Type: number

Range: 0-1420

Default: 20

mss-value

Description The max value allowed for the TCP MSS (default: not configured)

Type: number

Range: 0-1420

prefix

Specification	Value
Type	*object*

ipv6-prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

partition-prefix-list

Specification	Value
Type	*list*
Block object keys	

ipv6-prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

partition

Description Partition Name

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

2.26.225 cgnv6 nat46-stateless fragmentation

Stateless NAT46 parameters

fragmentation Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	fragmentation
Element URI	/axapi/v3/cgnv6/nat46-stateless/fragmentation
Element Attributes	fragmentation_attributes
Partition Visibility	shared
Schema	`fragmentation schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/nat46-stateless/fragmentation

fragmentation_attributes

fragmentation attributes

inbound

Description: inbound is a **JSON Block**. Please see below for *inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound*

inbound

Specification	Value
Type	*object*

action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound

Specification	Value
Type	*object*

action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv6

Default: ipv6

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv6, send-icmp

Default: send-icmp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.226 cgnv6 nat46-stateless fragmentation inbound

Stateless NAT46 fragmentation rules for inbound oversize packets

inbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	inbound
Element URI	/axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound
Element Attributes	inbound_attributes
Partition Visibility	shared
Schema	`inbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound

inbound attributes

```
POST /axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound
Payload:
{
    "inbound": {
        "action": "drop"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound

inbound attributes

```
GET /axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound
Reponse:
{
    "inbound": {
```

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```
        "action": "drop",
        "uuid": "c5ed42b6-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound

inbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound

inbound attributes

```
PUT /axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound
Payload:
{
    "inbound": {
        "action": "drop"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound

inbound attributes

```
DELETE /axapi/v3/cgnv6/nat46-stateless/fragmentation/inbound
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

inbound attributes

action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.227 cgnv6 nat46-stateless fragmentation outbound

Stateless NAT46 fragmentation rules for outbound oversize packets

outbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	outbound
Element URI	/axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound
Element Attributes	outbound_attributes
Partition Visibility	shared
Schema	`outbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound

outbound attributes

```
POST /axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound
Payload:
{
    "outbound": {
        "df-set": "send-icmp",
        "count": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound

outbound attributes

```
GET /axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound
Reponse:
{
    "outbound": {
        "df-set": "send-icmp",
        "count": 1,
        "action": "ipv6",
        "uuid": "c5ed4360-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound

outbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound

outbound attributes

```
PUT /axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound
Payload:
{
    "outbound": {
        "df-set": "send-icmp",
        "count": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound

outbound attributes

```
DELETE /axapi/v3/cgnv6/nat46-stateless/fragmentation/outbound
Reponse:
{
    "response": {
```

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```
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

outbound attributes

action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv6

Default: ipv6

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv6, send-icmp

Default: send-icmp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.228 cgnv6 nat46-stateless global

Stateless NAT46 Statistics

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/nat46-stateless/global
Element Attributes	global_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/nat46-stateless/global/stats
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat46-stateless/global

global attributes

```
POST /axapi/v3/cgnv6/nat46-stateless/global
Payload:
{
    "global": {
        "tcp": {
            "mss-clamp": {
                "mss-clamp-type": "fixed",
                "mss-value": 0
            }
        }
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat46-stateless/global

global attributes

```
GET /axapi/v3/cgnv6/nat46-stateless/global
Reponse:
{
    "global": {
        "tcp": {
            "mss-clamp": {
                "mss-clamp-type": "fixed",
                "mss-value": 0
            }
        },
        "uuid": "c5ed41ee-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat46-stateless/global"
```

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```
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat46-stateless/global

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat46-stateless/global

global attributes

```
PUT /axapi/v3/cgnv6/nat46-stateless/global
Payload:
{
    "global": {
        "tcp": {
            "mss-clamp": {
                "mss-clamp-type": "fixed",
                "mss-value": 1
            }
        }
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat46-stateless/global

global attributes

```
DELETE /axapi/v3/cgnv6/nat46-stateless/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

global attributes

sampling-enable

Type: List

tcp

Description: tcp is a **JSON Block**. Please see below for *tcp*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'outbound_ipv4_received': Outbound IPv4 packets received; 'outbound_ipv4_drop': Outbound IPv4 packets dropped; 'outbound_ipv4_fragment_received': Outbound IPv4 fragment packets received; 'outbound_ipv6_unreachable': Outbound IPv6 destination unreachable; 'outbound_ipv6_fragmented': Outbound IPv6 packets fragmented; 'inbound_ipv6_received': Inbound IPv6 packets received; 'inbound_ipv6_drop': Inbound IPv6 packets dropped; 'inbound_ipv6_fragment_received': Inbound IPv6 fragment packets received; 'inbound_ipv4_unreachable': Inbound IPv4 destination unreachable; 'inbound_ipv4_fragmented': Inbound IPv4 packets fragmented; 'packet_too_big': Packet too big; 'fragment_error': Fragment processing errors; 'icmpv6_to_icmp': ICMPv6 to ICMP; 'icmpv6_to_icmp_error': ICMPv6 to ICMP errors; 'icmp_to_icmpv6': ICMP to ICMPv6; 'icmp_to_icmpv6_error': ICMP to ICMPv6 errors; 'ha_standby': HA is standby; 'other_error': Other errors; 'conn_count': conn count;

Type: string

Supported Values: all, outbound_ipv4_received, outbound_ipv4_drop, outbound_ipv4_fragment_received, outbound_ipv6_unreachable, outbound_ipv6_fragmented, inbound_ipv6_received, inbound_ipv6_drop, inbound_ipv6_fragment_received, inbound_ipv4_unreachable, inbound_ipv4_fragmented, packet_too_big, fragment_error, icmpv6_to_icmp, icmpv6_to_icmp_error, icmp_to_icmpv6, icmp_to_icmpv6_error, ha_standby, other_error, conn_count

tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *tcp_mss-clamp*

Type: Object

tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: ((576 - 60 - 60))))

Type: number

Range: 0-1420

Default: 456

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'none': No TCP MSS clamping; 'subtract': Specify the value to subtract from the TCP MSS (default: 20);

Type: string

Supported Values: fixed, none, subtract

Default: subtract

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: 20)

Type: number

Range: 0-1420

Default: 20

mss-value

Description The max value allowed for the TCP MSS (default: not configured)

Type: number

Range: 0-1420

2.26.229 cgnv6 nat46-stateless global stats

Statistics for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/nat46-stateless/global/stats
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat46-stateless/global/stats

global attributes

Get Object

GET

/axapi/v3/cgnv6/nat46-stateless/global/stats

global attributes

Modify Object

POST

/axapi/v3/cgnv6/nat46-stateless/global/stats

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat46-stateless/global/stats

global attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat46-stateless/global/stats

global attributes

global attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

conn_count

Description conn count

Type: number

Format: counter

fragment_error

Description Fragment processing errors

Type: number

Format: counter

ha_standby

Description HA is standby

Type: number

Format: counter

icmp_to_icmpv6

Description ICMP to ICMPv6

Type: number

Format: counter

icmp_to_icmpv6_error

Description ICMP to ICMPv6 errors

Type: number

Format: counter

icmpv6_to_icmp

Description ICMPv6 to ICMP

Type: number

Format: counter

icmpv6_to_icmp_error

Description ICMPv6 to ICMP errors

Type: number

Format: counter

inbound_ipv4_fragmented

Description Inbound IPv4 packets fragmented

Type: number

Format: counter

inbound_ipv4_unreachable

Description Inbound IPv4 destination unreachable

Type: number

Format: counter

inbound_ipv6_drop

Description Inbound IPv6 packets dropped

Type: number

Format: counter

inbound_ipv6_fragment_received

Description Inbound IPv6 fragment packets received

Type: number

Format: counter

inbound_ipv6_received

Description Inbound IPv6 packets received

Type: number

Format: counter

other_error

Description Other errors

Type: number

Format: counter

outbound_ipv4_drop

Description Outbound IPv4 packets dropped

Type: number

Format: counter

outbound_ipv4_fragment_received

Description Outbound IPv4 fragment packets received

Type: number

Format: counter

outbound_ipv4_received

Description Outbound IPv4 packets received

Type: number

Format: counter

outbound_ipv6_fragmented

Description Outbound IPv6 packets fragmented

Type: number

Format: counter

outbound_ipv6_unreachable

Description Outbound IPv6 destination unreachable

Type: number

Format: counter

packet_too_big

Description Packet too big

Type: number

Format: counter

2.26.230 cgnv6 nat46-stateless partition-prefix

Configure NAT46 prefix for a L3V partition traffic

partition-prefix Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*partition*
Collection Name	*partition-prefix-list*
Collection URI	/axapi/v3/cgnv6/nat46-stateless/partition-prefix
Element Name	partition-prefix
Element URI	/axapi/v3/cgnv6/nat46-stateless/partition-prefix/{partition}
Element Attributes	partition-prefix_attributes
Partition Visibility	shared
Schema	`partition-prefix schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat46-stateless/partition-prefix

partition-prefix attributes

```
POST /axapi/v3/cgnv6/nat46-stateless/partition-prefix/
Payload:
{
    "partition-prefix": {
        "partition": "a",
        "ipv6-prefix": "2003::1/96"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/nat46-stateless/partition-prefix

partition-prefix attributes

Get Object

GET

/axapi/v3/cgnv6/nat46-stateless/partition-prefix/{partition}

partition-prefix attributes

```
GET /axapi/v3/cgnv6/nat46-stateless/partition-prefix/a
Reponse:
{
    "partition-prefix": {
        "partition": "a",
        "ipv6-prefix": "2003::1/96",
        "uuid": "d957a106-08af-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat46-stateless/partition-prefix/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/nat46-stateless/partition-prefix

partition-prefix-list

Modify Object

POST

/axapi/v3/cgnv6/nat46-stateless/partition-prefix/{partition}

partition-prefix attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat46-stateless/partition-prefix/{partition}

partition-prefix attributes

```
PUT /axapi/v3/cgnv6/nat46-stateless/partition-prefix/a
Payload:
{
    "partition-prefix": {
        "partition": "a",
        "ipv6-prefix": "2003::1/96"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/nat46-stateless/partition-prefix

partition-prefix-list

Delete Object

DELETE

/axapi/v3/cgnv6/nat46-stateless/partition-prefix/{partition}

partition-prefix attributes

```
DELETE /axapi/v3/cgnv6/nat46-stateless/partition-prefix/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

partition-prefix-list

partition-prefix-list is **JSON List** of *partition-prefix attributes*

partition-prefix-list : [

{ *partition-prefix attributes* },

{ *partition-prefix attributes* },

...

]

partition-prefix attributes

ipv6-prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

partition

Description Partition Name

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

2.26.231 cgnv6 nat46-stateless prefix

Enable Stateless NAT46 IPv6 source address

prefix Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	prefix
Element URI	/axapi/v3/cgnv6/nat46-stateless/prefix
Element Attributes	prefix_attributes
Partition Visibility	shared
Schema	`prefix schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat46-stateless/prefix

prefix attributes

```
POST /axapi/v3/cgnv6/nat46-stateless/prefix
Payload:
{
    "prefix": {
        "ipv6-prefix": "2003::1/96"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat46-stateless/prefix

prefix attributes

```
GET /axapi/v3/cgnv6/nat46-stateless/prefix
Reponse:
{
    "prefix": {
        "ipv6-prefix": "2003::1/96",
        "uuid": "fa6b7b10-08af-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat46-stateless/prefix"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat46-stateless/prefix

prefix attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat46-stateless/prefix

prefix attributes

```
PUT /axapi/v3/cgnv6/nat46-stateless/prefix
Payload:
{
    "prefix": {
        "ipv6-prefix": "2003::2/96"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat46-stateless/prefix

prefix attributes

```
DELETE /axapi/v3/cgnv6/nat46-stateless/prefix
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

prefix attributes

ipv6-prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

2.26.232 cgnv6 nat46-stateless static-dest-mapping

Stateless NAT46 mapping (IPv4 <-> IPv6)

static-dest-mapping Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*v4-address, v6-address*
Collection Name	*static-dest-mapping-list*
Collection URI	/axapi/v3/cgnv6/nat46-stateless/static-dest-mapping
Element Name	static-dest-mapping
Element URI	/axapi/v3/cgnv6/nat46-stateless/static-dest-mapping/{v4-address}+{v6-address}
Element Attributes	static-dest-mapping_attributes
Partition Visibility	shared
Schema	`static-dest-mapping schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat46-stateless/static-dest-mapping

static-dest-mapping attributes

```
POST /axapi/v3/cgnv6/nat46-stateless/static-dest-mapping/
Payload:
{
    "static-dest-mapping": {
        "v6-address": "2003::1",
        "v4-address": "3.3.3.3",
        "count": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/nat46-stateless/static-dest-mapping

static-dest-mapping attributes

Get Object

GET

/axapi/v3/cgnv6/nat46-stateless/static-dest-mapping/{v4-address}+{v6-address}

static-dest-mapping attributes

```
GET /axapi/v3/cgnv6/nat46-stateless/static-dest-mapping/3.3.3.3+2003::1
Reponse:
{
    "static-dest-mapping": {
        "v4-address": "3.3.3.3",
```

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```
        "v6-address": "2003::1",
        "count": 1,
        "shared": 0,
        "uuid": "17671f58-08b0-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat46-stateless/static-dest-mapping/3.3.3.3+2003%3A
↪%3A1"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/nat46-stateless/static-dest-mapping

static-dest-mapping-list

Modify Object

POST

/axapi/v3/cgnv6/nat46-stateless/static-dest-mapping/{v4-address}+{v6-address}

static-dest-mapping attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat46-stateless/static-dest-mapping/{v4-address}+{v6-address}

static-dest-mapping attributes

```
PUT /axapi/v3/cgnv6/nat46-stateless/static-dest-mapping/3.3.3.3+2003::1
Payload:
{
    "static-dest-mapping": {
        "v6-address": "2003::1",
        "v4-address": "3.3.3.3",
        "count": 1
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/nat46-stateless/static-dest-mapping

static-dest-mapping-list

Delete Object

DELETE

/axapi/v3/cgnv6/nat46-stateless/static-dest-mapping/{v4-address}+{v6-address}

static-dest-mapping attributes

```
DELETE /axapi/v3/cgnv6/nat46-stateless/static-dest-mapping/3.3.3.3+2003::1
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

static-dest-mapping-list

static-dest-mapping-list is **JSON List** of *static-dest-mapping attributes*

static-dest-mapping-list : [

{ *static-dest-mapping attributes* },

{ *static-dest-mapping attributes* },

...

]

static-dest-mapping attributes

count

Description Set number of consecutive mappings (Number of mappings)

Type: number

shared

Description Share/Expose this mapping with other partitions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

to-shared

Description Send NATed traffic through shared partition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-address

Description IPv4 address

Type: string

Format: ipv4-address

v6-address

Description IPv6 address

Type: string

Format: ipv6-address

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

2.26.233 cgnv6 nat64

Configure NAT64

nat64 Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	nat64
Element URI	/axapi/v3/cgnv6/nat64
Element Attributes	nat64_attributes
Partition Visibility	shared
Schema	`nat64 schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/nat64

nat64_attributes

nat64 attributes

alg

Description: alg is a **JSON Block**. Please see below for *alg*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg*

enhanced-user-tracking

Description: enhanced-user-tracking is a **JSON Block**. Please see below for *enhanced-user-tracking*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/enhanced-user-tracking*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/fragmentation*

full-cone-session

Description: full-cone-session is a **JSON Block**. Please see below for *full-cone-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/full-cone-session*

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/global*

hw-accelerate

Description: hw-accelerate is a **JSON Block**. Please see below for *hw-accelerate*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/hw-accelerate*

prefix-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat64/prefix/{prefix-val}*

user-quota-session

Description: user-quota-session is a **JSON Block**. Please see below for *user-quota-session*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/user-quota-session*

fragmentation

Specification	Value
Type	*object*

df-bit-transparency

Description: df-bit-transparency is a **JSON Block**. Please see below for *fragmentation_df-bit-transparency*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency*

inbound

Description: inbound is a **JSON Block**. Please see below for *fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/fragmentation/outbound*

fragmentation_inbound

Specification	Value
Type	*object*

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fragmentation_outbound

Specification	Value
Type	*object*

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation (default); 'send-icmpv6': Send ICMPv6 Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fragmentation_df-bit-transparency

Specification	Value
Type	*object*

df-bit-value

Description 'enable': Add an empty IPv6 fragmentation header if IPv4 DF bit is zero;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

full-cone-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg

Specification	Value
Type	*object*

esp

Description: esp is a **JSON Block**. Please see below for *alg_esp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/esp*

ftp

Description: ftp is a **JSON Block**. Please see below for *alg_ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/ftp*

h323

Description: h323 is a **JSON Block**. Please see below for *alg_h323*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/h323*

mgcp

Description: mgcp is a **JSON Block**. Please see below for *alg_mgcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/mgcp*

pptp

Description: pptp is a **JSON Block**. Please see below for *alg_pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/pptp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *alg_rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *alg_sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *alg_tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/tftp*

alg_ftp

Specification	Value
Type	*object*

ftp-enable

Description 'disable': Disable NAT64 FTP ALG;

Type: string

Supported Values: disable

trans-eprt-to-port

Description 'disable': disable;

Type: string

Supported Values: disable

trans-epsv-to-pasv

Description 'disable': disable;

Type: string

Supported Values: disable

trans-lprt-to-port

Description 'disable': disable;

Type: string

Supported Values: disable

trans-lpsv-to-pasv

Description 'disable': disable;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

xlat-no-trans-pasv

Description 'enable': enable;

Type: string

Supported Values: enable

alg_sip

Specification	Value
Type	*object*

sip-enable

Description 'enable': Enable NAT64 SIP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_esp

Specification	Value
Type	*object*

esp-enable

Description 'enable': Enable NAT64 ESP ALG; 'enable-with-ctrl': Enable ESP NAT64 ALG with control session;

Type: string

Supported Values: enable, enable-with-ctrl

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_esp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'nat-ip-conflict': NAT IP Conflict;

Type: string

Supported Values: all, session-created, nat-ip-conflict

alg_pptp

Specification	Value
Type	*object*

pptp-enable

Description 'enable': Enable NAT64 PPTP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_rtsp

Specification	Value
Type	*object*

rtsp-enable

Description 'enable': Enable NAT64 RTSP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_h323

Specification	Value
Type	*object*

h323-enable

Description 'enable': Enable NAT64 H323 ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_tftp

Specification	Value
Type	*object*

tftp-enable

Description 'enable': Enable NAT64 TFTP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_mgcp

Specification	Value
Type	*object*

mgcp-enable

Description 'enable': Enable NAT64 MGCP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global

Specification	Value
Type	*object*

all

Description All packet sizes

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force-non-zero-ipv4-id

Description Enable non-zero ID field in IPv4 header if no IPv6 fragment & IPv4 pkt size is more than 88 & less than or equal to 1280 bytes

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmp

Description: icmp is a **JSON Block**. Please see below for *global_icmp*

Type: Object

inside

Description: inside is a **JSON Block**. Please see below for *global_inside*

Type: Object

sampling-enable

Type: List

tcp

Description: tcp is a **JSON Block**. Please see below for *global_tcp*

Type: Object

user-quota-prefix-length

Description User Quota Prefix Length (Default: 128)

Type: number

Range: 1-128

Default: 128

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global_inside

Specification	Value
Type	*object*

source

Description: source is a **JSON Block**. Please see below for *global_inside_source*

Type: Object

global_inside_source

Specification	Value
Type	*object*

class-list

Description Class-list to match for NAT64

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_tcp_allocated': Total TCP Ports Allocated; 'total_tcp_freed': Total TCP Ports Freed; 'total_udp_allocated': Total UDP Ports Allocated; 'total_udp_freed': Total UDP Ports Freed; 'total_icmp_allocated': Total ICMP Ports Allocated; 'total_icmp_freed': Total ICMP Ports Freed; 'data_session_created': Data Session Created; 'data_session_freed': Data Session Freed; 'user_quota_created': User-Quota Created; 'user_quota_put_in_del_q': User-Quota Freed; 'user_quota_failure': User-Quota Creation Failed; 'nat_port_unavailable_tcp': TCP NAT Port Unavailable; 'nat_port_unavailable_udp': UDP NAT Port Unavailable; 'nat_port_unavailable_icmp': ICMP NAT Port Unavailable; 'new_user_resource_unavailable': New User NAT Resource Unavailable; 'tcp_user_quota_exceeded': TCP User-Quota Exceeded; 'udp_user_quota_exceeded': UDP User-Quota Exceeded; 'icmp_user_quota_exceeded': ICMP User-Quota Exceeded; 'extended_quota_matched': Extended User-Quota Matched; 'extended_quota_exceeded': Extended User-Quota Exceeded; 'data_sesn_user_quota_exceeded': Data Session User-Quota Exceeded; 'data_sesn_rate_user_quota_exceeded': Conn Rate User-Quota Exceeded; 'tcp_fullcone_created': TCP Full-cone Session Created; 'tcp_fullcone_freed': TCP Full-cone Session Freed; 'udp_fullcone_created': UDP Full-cone Session Created; 'udp_fullcone_freed': UDP Full-cone Session Freed; 'fullcone_failure': Full-cone Session Creation Failed; 'hairpin': Hairpin Session Created; 'fullcone_self_hairpinning_drop': Self-Hairpinning Drop; 'endpoint_indep_map_match': Endpoint-Independent Mapping Matched; 'endpoint_indep_filter_match': Endpoint-Independent Filtering Matched; 'inbound_filtered': Endpoint-Dependent Filtering Drop; 'eif_limit_exceeded': Endpoint-Independent Filtering Inbound Limit Exceeded; 'total_tcp_overloaded': TCP Port Overloaded; 'total_udp_overloaded': UDP Port Overloaded; 'port_overloading_smp_inserted_tcp': TCP Port Overloading Session Created; 'port_overloading_smp_inserted_udp': UDP Port Overloading Session Created; 'port_overloading_smp_free_tcp': TCP Port Overloading Session Freed; 'port_overloading_smp_free_udp': UDP Port Overloading Session Freed; 'nat_pool_unusable': NAT Pool Unusable; 'ha_nat_pool_unusable': HA NAT Pool Unusable; 'ha_nat_pool_batch_type_mismatch': HA NAT Pool Batch Type Mismatch; 'no_radius_profile_match': No RADIUS Profile Match; 'l3': Layer 3 Forwarded Packets; 'source_matches_prefix': Source Address Prefix Match Drop; 'lid_drop': LSN LID Drop; 'lid_pass_through': LSN LID Pass-through; 'no_class_list_match': No Class-List Match; 'user_quota_mem_allocated': User-Quota Memory Allocated; 'user_quota_mem_freed': User-Quota Memory Freed; 'user_quota_created_shadow': Total User-Quota Created; 'quota_marked_deleted': User-Quota Marked Deleted; 'quota_delete_not_in_bucket': User-Quota Delete Not In Bucket; 'user_quota_put_in_del_q_shadow': Total User-Quota Put In Del Q; 'prefix_quota_created': Total Prefix Quota Created; 'prefix_quota_put_in_del_q': Total Prefix Quota Freed; 'prefix_quota_failure': Total Prefix Quota Failure; 'total_user_quota_created': Total Quota Structure Created; 'total_user_quota_put_in_del_q': Total Quota Structure Freed; 'total_user_quota_failure': Total Quota Structure Failure; 'tcp_out_of_state_rst_sent': Total Out of State TCP RST sent; 'tcp_out_of_state_rst_dropped': Total Out of State TCP RST dropped; 'icmp_out_of_state_uqe_admin_filtered_sent': Total User Quota Exceeded ICMP admin filtered sent; 'icmp_out_of_state_uqe_host_unreachable_sent': Total User Quota Exceeded ICMP host unreachable sent; 'icmp_out_of_state_uqe_dropped': Total User Queue Exceeded ICMP notification dropped; 'user_quota_not_found':

User-Quota Not Found; 'tcp_fullcone_created_shadow': Total TCP Full-cone sessions created; 'tcp_fullcone_freed_shadow': Total TCP Full-cone sessions freed; 'udp_fullcone_created_shadow': Total UDP Full-cone sessions created; 'udp_fullcone_freed_shadow': Total UDP Full-cone sessions freed; 'udp_alg_fullcone_created': Total UDP ALG Full-cone sessions created; 'udp_alg_fullcone_freed': Total UDP ALG Full-cone sessions freed; 'fullcone_created': Total Full-cone sessions created; 'fullcone_freed': Total Full-cone sessions freed; 'data_session_created_shadow': Total Data Sessions Created; 'data_session_freed_shadow': Total Data Sessions Freed; 'data_session_user_quota_mismatch': Data Session Counter Per User Mismatch; 'extended_quota_mismatched': Extended User-Quota Mismatched; 'nat_port_unavailable_other': Other NAT Port Unavailable; 'nat_port_unavailable': Total NAT Port Unavailable; 'new_user_resource_unavailable_tcp': TCP New User NAT Resource Unavailable; 'new_user_resource_unavailable_udp': UDP New User NAT Resource Unavailable; 'new_user_resource_unavailable_icmp': ICMP New User NAT Resource Unavailable; 'new_user_resource_unavailable_other': Other New User NAT Resource Unavailable; 'total_tcp_allocated_shadow': Total TCP Ports Allocated; 'total_tcp_freed_shadow': Total TCP Ports Freed; 'total_udp_allocated_shadow': Total UDP Ports Allocated; 'total_udp_freed_shadow': Total UDP Ports Freed; 'total_icmp_allocated_shadow': Total ICMP Ports Allocated; 'total_icmp_freed_shadow': Total ICMP Ports Freed; 'udp_alg_no_quota': UDP ALG User-Quota Not Found; 'udp_alg_eim_mismatch': UDP ALG Endpoint-Independent Mapping Mismatch; 'udp_alg_no_nat_ip': UDP ALG User-Quota Unknown NAT IP; 'udp_alg_alloc_failure': UDP ALG Port Allocation Failure; 'sip_alg_no_quota': SIP ALG User-Quota Not Found; 'sip_alg_quota_inc_failure': SIP ALG User-Quota Exceeded; 'sip_alg_no_nat_ip': SIP ALG Unknown NAT IP; 'sip_alg_reuse_contact_fullcone': SIP ALG Reuse Contact Full-cone Session; 'sip_alg_contact_fullcone_mismatch': SIP ALG Contact Full-cone Session Mismatch; 'sip_alg_alloc_contact_port_failure': SIP ALG Alloc Contact NAT Port Failure; 'sip_alg_create_contact_fullcone_failure': SIP ALG Create Contact Full-cone Session Failure; 'sip_alg_release_contact_port_failure': SIP ALG Release Contact NAT Port Failure; 'sip_alg_single_rtp_fullcone': SIP ALG Single RTP Full-cone Found; 'sip_alg_single_rtcp_fullcone': SIP ALG Single RTCP Full-cone Found; 'sip_alg_rtcp_fullcone_mismatch': SIP ALG RTCP Full-cone NAT Port Mismatch; 'sip_alg_reuse_rtp_rtcp_fullcone': SIP ALG Reuse RTP/RTCP Full-cone Session; 'sip_alg_alloc_rtp_rtcp_port_failure': SIP ALG Alloc RTP/RTCP NAT Ports Failure; 'sip_alg_alloc_single_port_failure': SIP ALG Alloc Single RTP or RTCP NAT Port Failure; 'sip_alg_create_single_fullcone_failure': SIP ALG Create Single RTP or RTCP Full-cone Session Failure; 'sip_alg_create_rtp_fullcone_failure': SIP ALG Create RTP Full-cone Session Failure; 'sip_alg_create_rtcp_fullcone_failure': SIP ALG Create RTCP Full-cone Session Failure; 'sip_alg_port_pair_alloc_from_consecutive': SIP ALG Port Pair Allocated From Consecutive; 'sip_alg_port_pair_alloc_from_partition': SIP ALG Port Pair Allocated From Partition; 'sip_alg_port_pair_alloc_from_pool_port_batch': SIP ALG Port Pair Allocated From Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_consecutive': SIP ALG Port Pair Allocated From Quota Consecutive; 'sip_alg_port_pair_alloc_from_quota_partition': SIP ALG Port Pair Allocated From Quota Partition; 'sip_alg_port_pair_alloc_from_quota_partition_error': SIP ALG Port Pair Allocated From Quota Partition Error; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch': SIP ALG Port Pair Allocated From Quota Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag': SIP ALG Port Pair Allocated From Quota Port Batch Version 2 with Frag Free Ports;

Type: string

Supported Values: all, total_tcp_allocated, total_tcp_freed, total_udp_allocated, total_udp_freed, total_icmp_allocated, total_icmp_freed, data_session_created, data_session_freed, user_quota_created, user_quota_put_in_del_q, user_quota_failure, nat_port_unavailable_tcp, nat_port_unavailable_udp, nat_port_unavailable_icmp, new_user_resource_unavailable, tcp_user_quota_exceeded, udp_user_quota_exceeded,

icmp_user_quota_exceeded, extended_quota_matched, extended_quota_exceeded, data_sesn_user_quota_exceeded, data_sesn_rate_user_quota_exceeded, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_failure, hairpin, full-cone_self_hairpinning_drop, endpoint_indep_map_match, endpoint_indep_filter_match, inbound_filtered, eif_limit_exceeded, total_tcp_overloaded, total_udp_overloaded, port_overloading_smp_inserted_tcp, port_overloading_smp_inserted_udp, port_overloading_smp_free_tcp, port_overloading_smp_free_udp, nat_pool_unusable, ha_nat_pool_unusable, ha_nat_pool_batch_type_mismatch, no_radius_profile_match, l3, source_matches_prefix, lid_drop, lid_pass_through, no_class_list_match, user_quota_mem_allocated, user_quota_mem_freed, user_quota_created_shadow, quota_marked_deleted, quota_delete_not_in_bucket, user_quota_put_in_del_q_shadow, prefix_quota_created, prefix_quota_put_in_del_q, prefix_quota_failure, total_user_quota_created, total_user_quota_put_in_del_q, to-tal_user_quota_failure, tcp_out_of_state_rst_sent, tcp_out_of_state_rst_dropped, icmp_out_of_state_uqe_admin_filtered_sent, icmp_out_of_state_uqe_host_unreachable_sent, icmp_out_of_state_uqe_dropped, user_quota_not_found, tcp_fullcone_created_shadow, tcp_fullcone_freed_shadow, udp_fullcone_created_shadow, udp_fullcone_freed_shadow, udp_alg_fullcone_created, udp_alg_fullcone_freed, fullcone_created, full-cone_freed, data_session_created_shadow, data_session_freed_shadow, data_session_user_quota_mismatch, extended_quota_mismatched, nat_port_unavailable_other, nat_port_unavailable, new_user_resource_unavailable_tcp, new_user_resource_unavailable_udp, new_user_resource_unavailable_icmp, new_user_resource_unavailable_other, total_tcp_allocated_shadow, to-tal_tcp_freed_shadow, total_udp_allocated_shadow, total_udp_freed_shadow, total_icmp_allocated_shadow, total_icmp_freed_shadow, udp_alg_no_quota, udp_alg_eim_mismatch, udp_alg_no_nat_ip, udp_alg_alloc_failure, sip_alg_no_quota, sip_alg_quota_inc_failure, sip_alg_no_nat_ip, sip_alg_reuse_contact_fullcone, sip_alg_contact_fullcone_mismatch, sip_alg_alloc_contact_port_failure, sip_alg_create_contact_fullcone_failure, sip_alg_release_contact_port_failure, sip_alg_single_rtp_fullcone, sip_alg_single_rtcp_fullcone, sip_alg_rtcp_fullcone_mismatch, sip_alg_reuse_rtp_rtcp_fullcone, sip_alg_alloc_rtp_rtcp_port_failure, sip_alg_alloc_single_port_failure, sip_alg_create_single_fullcone_failure, sip_alg_create_rtp_fullcone_failure, sip_alg_create_rtcp_fullcone_failure, sip_alg_port_pair_alloc_from_consecutive, sip_alg_port_pair_alloc_from_partition, sip_alg_port_pair_alloc_from_pool_port_batch, sip_alg_port_pair_alloc_from_quota_consecutive, sip_alg_port_pair_alloc_from_quota_partition, sip_alg_port_pair_alloc_from_quota_partition_error, sip_alg_port_pair_alloc_from_quota_pool_port_batch, sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag

counters2

Description 'h323_alg_no_quota': H323 ALG User-Quota Not Found; 'h323_alg_quota_inc_failure': H323 ALG User-Quota Exceeded; 'h323_alg_no_nat_ip': H323 ALG Unknown NAT IP; 'h323_alg_reuse_fullcone': H323 ALG Reuse Full-cone Session; 'h323_alg_fullcone_mismatch': H323 ALG Full-cone Session Mismatch; 'h323_alg_alloc_port_failure': H323 ALG Alloc NAT Port Failure; 'h323_alg_create_fullcone_failure': H323 ALG Create Full-cone Session Failure; 'h323_alg_release_port_failure': H323 ALG Release NAT Port Failure; 'h323_alg_single_rtp_fullcone': H323 ALG Single RTP Full-cone Found; 'h323_alg_single_rtcp_fullcone': H323 ALG Single RTCP Full-cone Found; 'h323_alg_rtcp_fullcone_mismatch': H323 ALG RTCP Full-cone NAT Port Mismatch; 'h323_alg_reuse_rtp_rtcp_fullcone': H323 ALG Reuse RTP/RTCP Full-cone Session; 'h323_alg_alloc_rtp_rtcp_port_failure': H323 ALG Alloc RTP/RTCP NAT Ports Failure; 'h323_alg_alloc_single_port_failure': H323 ALG Alloc Single RTP or RTCP NAT Port Failure; 'h323_alg_create_single_fullcone_failure': H323 ALG Create Single RTP or RTCP Full-cone Session Failure;

'h323_alg_create_rtp_fullcone_failure': H323 ALG Create RTP Full-cone Session Failure; 'h323_alg_create_rtcp_fullcone_failure': H323 ALG Create RTCP Full-cone Session Failure; 'h323_alg_port_pair_alloc_from_consecutive': H323 ALG Port Pair Allocated From Consecutive; 'h323_alg_port_pair_alloc_from_partition': H323 ALG Port Pair Allocated From Partition; 'h323_alg_port_pair_alloc_from_pool_port_batch': H323 ALG Port Pair Allocated From Pool Port Batch; 'h323_alg_port_pair_alloc_from_quota_consecutive': H323 ALG Port Pair Allocated From Quota Consecutive; 'h323_alg_port_pair_alloc_from_quota_partition': H323 ALG Port Pair Allocated From Quota Partition; 'h323_alg_port_pair_alloc_from_quota_partition_error': H323 ALG Port Pair Allocated From Quota Partition Error; 'h323_alg_port_pair_alloc_from_quota_pool_port_batch': H323 ALG Port Pair Allocated From Quota Pool Port Batch; 'port_batch_quota_extension_alloc_failure': Port Batch Extension Alloc Failure (No memory); 'port_batch_free_quota_not_found': Port Batch Quota Not Found on Free; 'port_batch_free_port_not_found': Port Batch Port Not Found on Free; 'port_batch_free_wrong_partition': Port Batch Free Wrong Partition; 'radius_query_quota_ext_alloc_failure': RADIUS Query Container Alloc (No Memoty); 'radius_query_quota_ext_alloc_race_free': RADIUS Query Container Alloc Race Free; 'quota_extension_added': Quota Extension Added to Quota; 'quota_extension_removed': Quota Extension Removed from Quota; 'quota_extension_remove_not_found': Quota Extension Not Found on Remove; 'ha_sync_port_batch_sent': HA Port Batch Extension Sync Sent; 'ha_sync_port_batch_rcv': HA Port Batch Extension Sync Received; 'ha_send_port_batch_not_found': HA Port Batch Not Found on Sync Send; 'ha_rcv_port_not_in_port_batch': HA Port Not in Port Batch on Sync Rcv; 'bad_port_to_free': Freeing Bad Port; 'consecutive_port_free': Port Freed from Consecutive Pool; 'partition_port_free': Port Freed from Partition; 'pool_port_batch_port_free': Port Freed from Pool Port Batch; 'port_allocated_from_quota_consecutive': Port Allocated from Quota Consecutive; 'port_allocated_from_quota_partition': Port Allocated from Quota Partition; 'port_allocated_from_quota_pool_port_batch': Port Allocated from Quota Pool Port Batch; 'port_freed_from_quota_consecutive': Port Freed from Quota Consecutive; 'port_freed_from_quota_partition': Port Freed from Quota Partition; 'port_freed_from_quota_pool_port_batch': Port Freed from Quota Pool Port Batch; 'port_batch_allocated_to_quota': Port Batch Allocated to Quota; 'port_batch_freed_from_quota': Port Batch Freed From Quota; 'specific_port_allocated_from_quota_consecutive': Specific Port Allocated from Quota Consecutive; 'specific_port_allocated_from_quota_partition': Specific Port Allocated from Quota Partition; 'specific_port_allocated_from_quota_pool_port_batch': Specific Port Allocated from Quota Pool Port Batch; 'port_batch_container_alloc_failure': Port Batch Container Alloc Out of Memory; 'port_batch_container_alloc_race_free': Port Batch Container Race Free; 'port_overloading_destination_conflict': Port Overloading Destination Conflict; 'port_overloading_out_of_memory': Port Overloading Out of Memory; 'port_overloading_assign_user': Port Overloading Port Assign User; 'port_overloading_assign_user_port_batch': Port Overloading Port Assign User Port Batch; 'port_overloading_inc': Port Overloading Port Increment; 'port_overloading_dec_on_conflict': Port Overloading Port Decrement on Conflict; 'port_overloading_dec_on_free': Port Overloading Port Decrement on Free; 'port_overloading_free_port_on_conflict': Port Overloading Free Port on Conflict; 'port_overloading_free_port_batch_on_conflict': Port Overloading Free Port Batch on Conflict; 'port_overloading_inc_overflow': Port Overloading Inc Overflow; 'port_overloading_attempt_consecutive_ports': Port Overloading on Consecutive Ports; 'port_overloading_attempt_same_partition': Port Overloading on Same Partition; 'port_overloading_attempt_diff_partition': Port Overloading on Different Partition; 'port_overloading_attempt_failed': Port Overloading Attempt Failed; 'port_overloading_conn_free_retry_lookup': Port Overloading Conn Free Retry Lookup; 'port_overloading_conn_free_not_found': Port Overloading Conn Free

Not Found; 'port_overloading_smp_mem_allocated': Port Overloading SMP Session Allocated; 'port_overloading_smp_mem_freed': Port Overloading SMP Session Freed; 'port_overloading_smp_inserted': Port Overloading SMP Inserted; 'port_overloading_smp_inserted_tcp_shadow': Total Port Overloading SMP TCP Inserted; 'port_overloading_smp_inserted_udp_shadow': Total Port Overloading SMP UDP Inserted; 'port_overloading_smp_free_tcp_shadow': Total Port Overloading SMP TCP Freed; 'port_overloading_smp_free_udp_shadow': Total Port Overloading SMP UDP Freed; 'port_overloading_smp_put_in_del_q_from_conn': Port Overloading SMP Free From Conn; 'port_overloading_smp_free_dec_failure': Port Overloading SMP Free Dec Failure; 'port_overloading_smp_free_no_quota': Port Overloading SMP Free No Quota; 'port_overloading_smp_free_port': Port Overloading SMP Free Port; 'port_overloading_smp_free_port_from_quota': Port Overloading SMP Free Port From Quota; 'port_overloading_for_no_ports': Port Overloading for No Ports; 'port_overloading_for_no_ports_success': Port Overloading for No Ports Success; 'port_overloading_for_quota_exceeded': Port Overloading for Quota Exceeded; 'port_overloading_for_quota_exceeded_success': Port Overloading for Quota Exceeded Success; 'port_overloading_for_quota_exceeded_race': Port Overloading for Quota Exceeded Race; 'port_overloading_for_quota_exceeded_race_success': Port Overloading for Quota Exceeded Race Success; 'port_overloading_for_new_user': Port Overloading for New User; 'port_overloading_for_new_user_success': Port Overloading for New User Success; 'ha_port_overloading_attempt_failed': HA Port Overloading Attempt Failed; 'ha_port_overloading_for_no_ports': HA Port Overloading for No Ports; 'ha_port_overloading_for_no_ports_success': HA Port Overloading for No Ports Success; 'ha_port_overloading_for_quota_exceeded': HA Port Overloading for Quota Exceeded; 'ha_port_overloading_for_quota_exceeded_success': HA Port Overloading for Quota Exceeded Success; 'ha_port_overloading_for_quota_exceeded_race': HA Port Overloading for Quota Exceeded Race; 'ha_port_overloading_for_quota_exceeded_race_success': HA Port Overloading for Quota Exceeded Race Success; 'ha_port_overloading_for_new_user': HA Port Overloading for New User; 'ha_port_overloading_for_new_user_success': HA Port Overloading for New User Success;

Type: string

Supported Values: h323_alg_no_quota, h323_alg_quota_inc_failure, h323_alg_no_nat_ip, h323_alg_reuse_fullcone, h323_alg_fullcone_mismatch, h323_alg_alloc_port_failure, h323_alg_create_fullcone_failure, h323_alg_release_port_failure, h323_alg_single_rtp_fullcone, h323_alg_single_rtcp_fullcone, h323_alg_rtcp_fullcone_mismatch, h323_alg_reuse_rtp_rtcp_fullcone, h323_alg_alloc_rtp_rtcp_port_failure, h323_alg_alloc_single_port_failure, h323_alg_create_single_fullcone_failure, h323_alg_create_rtp_fullcone_failure, h323_alg_create_rtcp_fullcone_failure, h323_alg_port_pair_alloc_from_consecutive, h323_alg_port_pair_alloc_from_partition, h323_alg_port_pair_alloc_from_pool_port_batch, h323_alg_port_pair_alloc_from_quota_consecutive, h323_alg_port_pair_alloc_from_quota_partition, h323_alg_port_pair_alloc_from_quota_partition_error, h323_alg_port_pair_alloc_from_quota_pool_port_batch, port_batch_quota_extension_alloc_failure, port_batch_free_quota_not_found, port_batch_free_port_not_found, port_batch_free_wrong_partition, radius_query_quota_ext_alloc_failure, radius_query_quota_ext_alloc_race_free, quota_extension_added, quota_extension_removed, quota_extension_remove_not_found, ha_sync_port_batch_sent, ha_sync_port_batch_rcv, ha_send_port_batch_not_found, ha_rcv_port_not_in_port_batch, bad_port_to_free, consecutive_port_free, partition_port_free, pool_port_batch_port_free, port_allocated_from_quota_consecutive, port_allocated_from_quota_partition, port_allocated_from_quota_pool_port_batch, port_freed_from_quota_consecutive, port_freed_from_quota_partition, port_freed_from_quota_pool_port_batch, port_batch_allocated_to_quota, port_batch_freed_from_quota, spe-

cific_port_allocated_from_quota_consecutive, specific_port_allocated_from_quota_partition, specific_port_allocated_from_quota_pool_port_batch, port_batch_container_alloc_failure, port_batch_container_alloc_race_free, port_overloading_destination_conflict, port_overloading_out_of_memory, port_overloading_assign_user, port_overloading_assign_user_port_batch, port_overloading_inc, port_overloading_dec_on_conflict, port_overloading_dec_on_free, port_overloading_free_port_on_conflict, port_overloading_free_port_batch_on_conflict, port_overloading_inc_overflow, port_overloading_attempt_consecutive_ports, port_overloading_attempt_same_partition, port_overloading_attempt_diff_partition, port_overloading_attempt_failed, port_overloading_conn_free_retry_lookup, port_overloading_conn_free_not_found, port_overloading_smp_mem_allocated, port_overloading_smp_mem_freed, port_overloading_smp_inserted, port_overloading_smp_inserted_tcp_shadow, port_overloading_smp_inserted_udp_shadow, port_overloading_smp_free_tcp_shadow, port_overloading_smp_free_udp_shadow, port_overloading_smp_put_in_del_q_from_conn, port_overloading_smp_free_dec_failure, port_overloading_smp_free_no_quota, port_overloading_smp_free_port, port_overloading_smp_free_port_from_quota, port_overloading_for_no_ports, port_overloading_for_no_ports_success, port_overloading_for_quota_exceeded, port_overloading_for_quota_exceeded_success, port_overloading_for_quota_exceeded_race, port_overloading_for_quota_exceeded_race_success, port_overloading_for_new_user, port_overloading_for_new_user_success, ha_port_overloading_attempt_failed, ha_port_overloading_for_no_ports, ha_port_overloading_for_no_ports_success, ha_port_overloading_for_quota_exceeded, ha_port_overloading_for_quota_exceeded_success, ha_port_overloading_for_quota_exceeded_race, ha_port_overloading_for_quota_exceeded_race_success, ha_port_overloading_for_new_user, ha_port_overloading_for_new_user_success

counters3

Description 'nat_pool_force_delete': NAT Pool Force Delete; 'quota_ext_too_many': Quota Ext Too Many; 'nat_pool_not_found_on_free': NAT Pool Not Found on Free; 'standby_class_list_drop': Standby Class-List Drop; 'dst_prefix_mismatch': Destination Prefix Mismatch Drop; 'fullcone_inbound_nat_pool_mismatch': Full-cone Session NAT Pool Mismatch; '6rd_no_match_domain_drop': Sixrd Packets Domain Not Found; 'ha_prefix_not_found': HA No Matching Prefix Found; 'nat_pool_attempt_adding_multiple_free_batches': Attempt Adding Multiple Free Batches to Quota; 'nat_pool_add_free_batch_failed': Add Batch to Quota Failed; 'mgcp_alg_no_quota': MGCP ALG User-Quota Not Found; 'mgcp_alg_quota_inc_failure': MGCP ALG User-Quota Exceeded; 'mgcp_alg_no_nat_ip': MGCP ALG Unknown NAT IP; 'mgcp_alg_reuse_fullcone': MGCP ALG Reuse Full-cone Session; 'mgcp_alg_fullcone_mismatch': MGCP ALG Full-cone Session Mismatch; 'mgcp_alg_alloc_port_failure': MGCP ALG Alloc NAT Port Failure; 'mgcp_alg_create_fullcone_failure': MGCP ALG Create Full-cone Session Failure; 'mgcp_alg_release_port_failure': MGCP ALG Release NAT Port Failure; 'mgcp_alg_single_rtp_fullcone': MGCP ALG Single RTP Full-cone Found; 'mgcp_alg_single_rtcp_fullcone': MGCP ALG Single RTCP Full-cone Found; 'mgcp_alg_rtcp_fullcone_mismatch': MGCP ALG RTCP Full-cone NAT Port Mismatch; 'mgcp_alg_reuse_rtp_rtcp_fullcone': MGCP ALG Reuse RTP/RTCP Full-cone Session; 'mgcp_alg_alloc_rtp_rtcp_port_failure': MGCP ALG Alloc RTP/RTCP NAT Ports Failure; 'mgcp_alg_alloc_single_port_failure': MGCP ALG Alloc Single RTP or RTCP NAT Port Failure; 'mgcp_alg_create_single_fullcone_failure': MGCP ALG Create Single RTP or RTCP Full-cone Session Failure; 'mgcp_alg_create_rtp_fullcone_failure': MGCP ALG Create RTP Full-cone Session Failure; 'mgcp_alg_create_rtcp_fullcone_failure': MGCP ALG Create RTCP Full-cone Session Failure; 'mgcp_alg_port_pair_alloc_from_consecutive': MGCP ALG Port Pair Allocated From Consecutive; 'mgcp_alg_port_pair_alloc_from_partition': MGCP ALG Port Pair Allocated

From Partition; 'mgcp_alg_port_pair_alloc_from_pool_port_batch': MGCP ALG Port Pair Allocated From Pool Port Batch; 'mgcp_alg_port_pair_alloc_from_quota_consecutive': MGCP ALG Port Pair Allocated From Quota Consecutive; 'mgcp_alg_port_pair_alloc_from_quota_partition': MGCP ALG Port Pair Allocated From Quota Partition; 'mgcp_alg_port_pair_alloc_from_quota_partition_error': MGCP ALG Port Pair Allocated From Quota Partition Error; 'mgcp_alg_port_pair_alloc_from_quota_pool_port_batch': MGCP ALG Port Pair Allocated From Quota Pool Port Batch; 'user_quota_unusable_drop': User-Quota Unusable Drop; 'user_quota_unusable': User-Quota Marked Unusable; 'nat_pool_same_port_batch_udp_failed': Simultaneous Batch Allocation UDP Port Allocation Failed; 'adc_port_allocation_failed': ADC Port Allocation Failed; 'adc_port_allocation_ineligible': ADC Port Allocation Not Allowed; 'fwd_ingress_packets_tcp': Forward Ingress Packets TCP; 'fwd_egress_packets_tcp': Forward Egress Packets TCP; 'rev_ingress_packets_tcp': Reverse Ingress Packets TCP; 'rev_egress_packets_tcp': Reverse Egress Packets TCP; 'fwd_ingress_bytes_tcp': Forward Ingress Bytes TCP; 'fwd_egress_bytes_tcp': Forward Egress Bytes TCP; 'rev_ingress_bytes_tcp': Reverse Ingress Bytes TCP; 'rev_egress_bytes_tcp': Reverse Egress Bytes TCP; 'fwd_ingress_packets_udp': Forward Ingress Packets UDP; 'fwd_egress_packets_udp': Forward Egress Packets UDP; 'rev_ingress_packets_udp': Reverse Ingress Packets UDP; 'rev_egress_packets_udp': Reverse Egress Packets UDP; 'fwd_ingress_bytes_udp': Forward Ingress Bytes UDP; 'fwd_egress_bytes_udp': Forward Egress Bytes UDP; 'rev_ingress_bytes_udp': Reverse Ingress Bytes UDP; 'rev_egress_bytes_udp': Reverse Egress Bytes UDP; 'fwd_ingress_packets_icmp': Forward Ingress Packets ICMP; 'fwd_egress_packets_icmp': Forward Egress Packets ICMP; 'rev_ingress_packets_icmp': Reverse Ingress Packets ICMP; 'rev_egress_packets_icmp': Reverse Egress Packets ICMP; 'fwd_ingress_bytes_icmp': Forward Ingress Bytes ICMP; 'fwd_egress_bytes_icmp': Forward Egress Bytes ICMP; 'rev_ingress_bytes_icmp': Reverse Ingress Bytes ICMP; 'rev_egress_bytes_icmp': Reverse Egress Bytes ICMP; 'fwd_ingress_packets_others': Forward Ingress Packets OTHERS; 'fwd_egress_packets_others': Forward Egress Packets OTHERS; 'rev_ingress_packets_others': Reverse Ingress Packets OTHERS; 'rev_egress_packets_others': Reverse Egress Packets OTHERS; 'fwd_ingress_bytes_others': Forward Ingress Bytes OTHERS; 'fwd_egress_bytes_others': Forward Egress Bytes OTHERS; 'rev_ingress_bytes_others': Reverse Ingress Bytes OTHERS; 'rev_egress_bytes_others': Reverse Egress Bytes OTHERS; 'fwd_ingress_pkt_size_range1': Forward Ingress Packet size between 0 and 200; 'fwd_ingress_pkt_size_range2': Forward Ingress Packet size between 201 and 800; 'fwd_ingress_pkt_size_range3': Forward Ingress Packet size between 801 and 1550; 'fwd_ingress_pkt_size_range4': Forward Ingress Packet size between 1551 and 9000; 'fwd_egress_pkt_size_range1': Forward Egress Packet size between 0 and 200; 'fwd_egress_pkt_size_range2': Forward Egress Packet size between 201 and 800; 'fwd_egress_pkt_size_range3': Forward Egress Packet size between 801 and 1550; 'fwd_egress_pkt_size_range4': Forward Egress Packet size between 1551 and 9000; 'rev_ingress_pkt_size_range1': Reverse Ingress Packet size between 0 and 200; 'rev_ingress_pkt_size_range2': Reverse Ingress Packet size between 201 and 800; 'rev_ingress_pkt_size_range3': Reverse Ingress Packet size between 801 and 1550; 'rev_ingress_pkt_size_range4': Reverse Ingress Packet size between 1551 and 9000; 'rev_egress_pkt_size_range1': Reverse Egress Packet size between 0 and 200; 'rev_egress_pkt_size_range2': Reverse Egress Packet size between 201 and 800; 'rev_egress_pkt_size_range3': Reverse Egress Packet size between 801 and 1550; 'rev_egress_pkt_size_range4': Reverse Egress Packet size between 1551 and 9000; 'prefix_quota_mismatch': Prefix Quota NAT IP Mismatch;

Type: string

Supported Values: nat_pool_force_delete, quota_ext_too_many,

nat_pool_not_found_on_free, standby_class_list_drop, dst_prefix_mismatch, fullcone_inbound_nat_pool_mismatch, 6rd_no_match_domain_drop, ha_prefix_not_found, nat_pool_attempt_adding_multiple_free_batches, nat_pool_add_free_batch_failed, mgcp_alg_no_quota, mgcp_alg_quota_inc_failure, mgcp_alg_no_nat_ip, mgcp_alg_reuse_fullcone, mgcp_alg_fullcone_mismatch, mgcp_alg_alloc_port_failure, mgcp_alg_create_fullcone_failure, mgcp_alg_release_port_failure, mgcp_alg_single_rtp_fullcone, mgcp_alg_single_rtcp_fullcone, mgcp_alg_rtcp_fullcone_mismatch, mgcp_alg_reuse_rtp_rtcp_fullcone, mgcp_alg_alloc_rtp_rtcp_port_failure, mgcp_alg_alloc_single_port_failure, mgcp_alg_create_single_fullcone_failure, mgcp_alg_create_rtp_fullcone_failure, mgcp_alg_create_rtcp_fullcone_failure, mgcp_alg_port_pair_alloc_from_consecutive, mgcp_alg_port_pair_alloc_from_partition, mgcp_alg_port_pair_alloc_from_pool_port_batch, mgcp_alg_port_pair_alloc_from_quota_consecutive, mgcp_alg_port_pair_alloc_from_quota_partition, mgcp_alg_port_pair_alloc_from_quota_partition_error, mgcp_alg_port_pair_alloc_from_quota_pool_port_batch, user_quota_unusable_drop, user_quota_unusable, nat_pool_same_port_batch_udp_failed, adc_port_allocation_failed, adc_port_allocation_ineligible, fwd_ingress_packets_tcp, fwd_egress_packets_tcp, rev_ingress_packets_tcp, rev_egress_packets_tcp, fwd_ingress_bytes_tcp, fwd_egress_bytes_tcp, rev_ingress_bytes_tcp, rev_egress_bytes_tcp, fwd_ingress_packets_udp, fwd_egress_packets_udp, rev_ingress_packets_udp, rev_egress_packets_udp, fwd_ingress_bytes_udp, fwd_egress_bytes_udp, rev_ingress_bytes_udp, rev_egress_bytes_udp, fwd_ingress_packets_icmp, fwd_egress_packets_icmp, rev_ingress_packets_icmp, rev_egress_packets_icmp, fwd_ingress_bytes_icmp, fwd_egress_bytes_icmp, rev_ingress_bytes_icmp, rev_egress_bytes_icmp, fwd_ingress_packets_others, fwd_egress_packets_others, rev_ingress_packets_others, rev_egress_packets_others, fwd_ingress_bytes_others, fwd_egress_bytes_others, rev_ingress_bytes_others, rev_egress_bytes_others, fwd_ingress_pkt_size_range1, fwd_ingress_pkt_size_range2, fwd_ingress_pkt_size_range3, fwd_ingress_pkt_size_range4, fwd_egress_pkt_size_range1, fwd_egress_pkt_size_range2, fwd_egress_pkt_size_range3, fwd_egress_pkt_size_range4, rev_ingress_pkt_size_range1, rev_ingress_pkt_size_range2, rev_ingress_pkt_size_range3, rev_ingress_pkt_size_range4, rev_egress_pkt_size_range1, rev_egress_pkt_size_range2, rev_egress_pkt_size_range3, rev_egress_pkt_size_range4, prefix_quota_mismatch, port_overloading_port_tcp_inserted, port_overloading_port_udp_inserted, port_overloading_port_free_tcp, port_overloading_port_free_udp

global_tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *global_tcp_mss-clamp*

Type: Object

reset-on-error

Description: reset-on-error is a **JSON Block**. Please see below for *global_tcp_reset-on-error*

Type: Object

global_tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: 476))

Type: number

Range: 0-1420

Default: 476

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'none': No TCP MSS clamping; 'subtract': Specify the value to subtract from the TCP MSS (default: 20);

Type: string

Supported Values: fixed, none, subtract

Default: subtract

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: 20)

Type: number

Range: 0-1420

Default: 20

mss-value

Description The max value allowed for the TCP MSS (default: not configured)

Type: number

Range: 0-1420

global_tcp_reset-on-error

Specification	Value
Type	*object*

outbound

Description 'disable': Disable send TCP reset on error;

Type: string

Supported Values: disable

global_icmp

Specification	Value
Type	*object*

send-on-port-unavailable

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered; 'disable': Disable ICMP port unavailable message (default);

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: disable

send-on-user-quota-exceeded

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered (default); 'disable': Disable ICMP quota exceeded message;

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: admin-filtered

hw-accelerate

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

hw-accelerate_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'entry-create': HW Entries Created; 'entry-create-failure': HW Entry Creation Failed; 'entry-create-fail-server-down': HW Entry Creation Failed - server down; 'entry-create-fail-max-entry': HW Entry Creation Failed - max entries exceeded; 'entry-free': HW Entries Freed; 'entry-free-opp-entry': HW Entries Freed - opposite tuple entry aged-out; 'entry-free-no-hw-prog': HW Entry Freed - no HW prog; 'entry-free-no-conn': HW Entry Freed - no matched conn; 'entry-free-no-sw-entry': HW Entry Freed - no software entry; 'entry-counter': HW Entries Count; 'entry-age-out': HW Entries Aged Out; 'entry-age-out-idle': HW Entries Aged Out - idle timeout; 'entry-age-out-tcp-fin': HW Entries Aged Out - TCP FIN; 'entry-age-out-tcp-rst': HW Entries Aged Out - TCP RST; 'entry-age-out-invalid-dst': HW Entries Aged Out - invalid dst; 'entry-force-hw-invalidate': HW Entries Force HW Invalidate; 'entry-invalidate-server-down': HW Entries Invalidate due to server down; 'tcam-create': TCAM Flows Created; 'tcam-free': TCAM Flows Freed; 'tcam-counter': TCAM Flow Count;

Type: string

Supported Values: all, entry-create, entry-create-failure, entry-create-fail-server-down, entry-create-fail-max-entry, entry-free, entry-free-opp-entry, entry-free-no-hw-prog, entry-free-no-conn, entry-free-no-sw-entry, entry-counter, entry-age-out, entry-age-out-idle, entry-age-out-tcp-fin, entry-age-out-tcp-rst, entry-age-out-invalid-dst, entry-force-hw-invalidate, entry-invalidate-server-down, tcam-create, tcam-free, tcam-counter

prefix-list

Specification	Value
Type	*list*
Block object keys	

class-list

Description Class-list to match for NAT64

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

prefix-val

Description NAT64 Prefix

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

user-quota-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

enhanced-user-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.234 cgnv6 nat64 alg

NAT64 ALG Parameters

alg Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	alg
Element URI	/axapi/v3/cgnv6/nat64/alg
Element Attributes	alg_attributes
Partition Visibility	shared
Schema	`alg schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/nat64/alg

alg_attributes

alg attributes

esp

Description: esp is a **JSON Block**. Please see below for *esp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/esp*

ftp

Description: ftp is a **JSON Block**. Please see below for *ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/ftp*

h323

Description: h323 is a **JSON Block**. Please see below for *h323*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/h323*

mgcp

Description: mgcp is a **JSON Block**. Please see below for *mgcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/mgcp*

pptp

Description: pptp is a **JSON Block**. Please see below for *pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/pptp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/alg/tftp*

ftp

Specification	Value
Type	*object*

ftp-enable

Description 'disable': Disable NAT64 FTP ALG;

Type: string

Supported Values: disable

trans-eprt-to-port

Description 'disable': disable;

Type: string

Supported Values: disable

trans-epsv-to-pasv

Description 'disable': disable;

Type: string

Supported Values: disable

trans-lprt-to-port

Description 'disable': disable;

Type: string

Supported Values: disable

trans-lpsv-to-pasv

Description 'disable': disable;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

xlat-no-trans-pasv

Description 'enable': enable;

Type: string

Supported Values: enable

sip

Specification	Value
Type	*object*

sip-enable

Description 'enable': Enable NAT64 SIP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

esp

Specification	Value
Type	*object*

esp-enable

Description 'enable': Enable NAT64 ESP ALG; 'enable-with-ctrl': Enable ESP NAT64 ALG with control session;

Type: string

Supported Values: enable, enable-with-ctrl

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

esp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'nat-ip-conflict': NAT IP Conflict;

Type: string

Supported Values: all, session-created, nat-ip-conflict

pptp

Specification	Value
Type	*object*

pptp-enable

Description 'enable': Enable NAT64 PPTP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rtsp

Specification	Value
Type	*object*

rtsp-enable

Description 'enable': Enable NAT64 RTSP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

h323

Specification	Value
Type	*object*

h323-enable

Description 'enable': Enable NAT64 H323 ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tftp

Specification	Value
Type	*object*

tftp-enable

Description 'enable': Enable NAT64 TFTP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mgcp

Specification	Value
Type	*object*

mgcp-enable

Description 'enable': Enable NAT64 MGCP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.235 cgnv6 nat64 alg esp

NAT64 ESP ALG (default: disabled)

esp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	esp
Element URI	/axapi/v3/cgnv6/nat64/alg/esp
Element Attributes	esp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/nat64/alg/esp/stats
Schema	`esp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/alg/esp

esp attributes

```
POST /axapi/v3/cgnv6/nat64/alg/esp
Payload:
{
    "esp": {
        "esp-enable": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat64/alg/esp

esp attributes

```
GET /axapi/v3/cgnv6/nat64/alg/esp
Reponse:
{
    "esp": {
        "esp-enable": "enable",
        "uuid": "c5ed2862-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat64/alg/esp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat64/alg/esp

esp attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/alg/esp

esp attributes

```
PUT /axapi/v3/cgnv6/nat64/alg/esp
Payload:
{
    "esp": {
        "esp-enable": "enable-with-ctrl"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/alg/esp

esp attributes

```
DELETE /axapi/v3/cgnv6/nat64/alg/esp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

esp attributes

esp-enable

Description 'enable': Enable NAT64 ESP ALG; 'enable-with-ctrl': Enable ESP NAT64 ALG with control session;

Type: string

Supported Values: enable, enable-with-ctrl

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'nat-ip-conflict': NAT IP Conflict;

Type: string

Supported Values: all, session-created, nat-ip-conflict

2.26.236 cgnv6 nat64 alg esp stats

Statistics for the object esp

esp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	esp
Element URI	/axapi/v3/cgnv6/nat64/alg/esp/stats
Element Attributes	esp_attributes
Partition Visibility	None
Schema	`esp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/alg/esp/stats

esp attributes

Get Object

GET

/axapi/v3/cgnv6/nat64/alg/esp/stats

esp attributes

Modify Object

POST

/axapi/v3/cgnv6/nat64/alg/esp/stats

esp attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/alg/esp/stats

esp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/alg/esp/stats

esp attributes

esp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

nat-ip-conflict

Description NAT IP Conflict

Type: number

Format: counter

session-created

Description ESP Sessions Created

Type: number

Format: counter

2.26.237 cgnv6 nat64 alg ftp

NAT64 FTP ALG (default: enabled)

ftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ftp
Element URI	/axapi/v3/cgnv6/nat64/alg/ftp
Element Attributes	ftp_attributes
Partition Visibility	shared
Schema	`ftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/alg/ftp

ftp attributes

```
POST /axapi/v3/cgnv6/nat64/alg/ftp
Payload:
{
    "ftp": {
        "ftp-enable": "disable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat64/alg/ftp

ftp attributes

```
GET /axapi/v3/cgnv6/nat64/alg/ftp
Reponse:
{
    "ftp": {
        "ftp-enable": "disable",
        "uuid": "8ea20240-08b0-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat64/alg/ftp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat64/alg/ftp

ftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/alg/ftp

ftp attributes

```
PUT /axapi/v3/cgnv6/nat64/alg/ftp
Payload:
{
    "ftp": {
        "ftp-enable": "disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/alg/ftp

ftp attributes

```
DELETE /axapi/v3/cgnv6/nat64/alg/ftp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

ftp attributes

ftp-enable

Description 'disable': Disable NAT64 FTP ALG;

Type: string

Supported Values: disable

trans-eprt-to-port

Description 'disable': disable;

Type: string

Supported Values: disable

trans-epsv-to-pasv

Description 'disable': disable;

Type: string

Supported Values: disable

trans-lprt-to-port

Description 'disable': disable;

Type: string

Supported Values: disable

trans-lpsv-to-pasv

Description 'disable': disable;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

xlat-no-trans-pasv

Description 'enable': enable;

Type: string

Supported Values: enable

2.26.238 cgnv6 nat64 alg h323

NAT64 H323 ALG (default: disabled)

h323 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	h323
Element URI	/axapi/v3/cgnv6/nat64/alg/h323
Element Attributes	h323_attributes
Partition Visibility	shared
Schema	`h323 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/alg/h323

h323 attributes

```
POST /axapi/v3/cgnv6/nat64/alg/h323
Payload:
{
    "h323": {
        "h323-enable": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat64/alg/h323

h323 attributes

```
GET /axapi/v3/cgnv6/nat64/alg/h323
Reponse:
{
    "h323": {
        "h323-enable": "enable",
        "uuid": "bacac71c-08b0-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat64/alg/h323"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat64/alg/h323

h323 attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/alg/h323

h323 attributes

```
PUT /axapi/v3/cgnv6/nat64/alg/h323
Payload:
{
    "h323": {
        "h323-enable": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/alg/h323

h323 attributes

```
DELETE /axapi/v3/cgnv6/nat64/alg/h323
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

h323 attributes

h323-enable

Description 'enable': Enable NAT64 H323 ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.239 cgnv6 nat64 alg mgcp

NAT64 MGCP ALG (default: disabled)

mgcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	mgcp
Element URI	/axapi/v3/cgnv6/nat64/alg/mgcp
Element Attributes	mgcp_attributes
Partition Visibility	shared
Schema	`mgcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/alg/mgcp

mgcp attributes

```
POST /axapi/v3/cgnv6/nat64/alg/mgcp
Payload:
{
    "mgcp": {
        "mgcp-enable": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat64/alg/mgcp

mgcp attributes

```
GET /axapi/v3/cgnv6/nat64/alg/mgcp
Reponse:
{
    "mgcp": {
        "mgcp-enable": "enable",
        "uuid": "d64501d8-08b0-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat64/alg/mgcp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat64/alg/mgcp

mgcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/alg/mgcp

mgcp attributes

```
PUT /axapi/v3/cgnv6/nat64/alg/mgcp
Payload:
{
    "mgcp": {
        "mgcp-enable": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/alg/mgcp

mgcp attributes

```
DELETE /axapi/v3/cgnv6/nat64/alg/mgcp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

mgcp attributes

mgcp-enable

Description 'enable': Enable NAT64 MGCP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.240 cgnv6 nat64 alg pptp

NAT64 PPTP ALG (default: disabled)

pptp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pptp
Element URI	/axapi/v3/cgnv6/nat64/alg/pptp
Element Attributes	pptp_attributes
Partition Visibility	shared
Schema	`pptp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/alg/pptp

pptp attributes

```
POST /axapi/v3/cgnv6/nat64/alg/pptp
Payload:
{
    "pptp": {
        "pptp-enable": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat64/alg/pptp

pptp attributes

```
GET /axapi/v3/cgnv6/nat64/alg/pptp
Reponse:
{
    "pptp": {
        "pptp-enable": "enable",
        "uuid": "f0eba0aa-08b0-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat64/alg/pptp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat64/alg/pptp

pptp attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/alg/pptp

pptp attributes

```
PUT /axapi/v3/cgnv6/nat64/alg/pptp
Payload:
{
    "pptp": {
        "pptp-enable": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/alg/pptp

pptp attributes

```
DELETE /axapi/v3/cgnv6/nat64/alg/pptp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

pptp attributes

pptp-enable

Description 'enable': Enable NAT64 PPTP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.241 cgnv6 nat64 alg rtsp

NAT64 RTSP ALG (default: disabled)

rtsp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rtsp
Element URI	/axapi/v3/cgnv6/nat64/alg/rtsp
Element Attributes	rtsp_attributes
Partition Visibility	shared
Schema	`rtsp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/alg/rtsp

rtsp attributes

```
POST /axapi/v3/cgnv6/nat64/alg/rtsp
Payload:
{
    "rtsp": {
        "rtsp-enable": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat64/alg/rtsp

rtsp attributes

```
GET /axapi/v3/cgnv6/nat64/alg/rtsp
Reponse:
{
    "rtsp": {
        "rtsp-enable": "enable",
        "uuid": "0924000e-08b1-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat64/alg/rtsp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat64/alg/rtsp

rtsp attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/alg/rtsp

rtsp attributes

```
PUT /axapi/v3/cgnv6/nat64/alg/rtsp
Payload:
{
    "rtsp": {
        "rtsp-enable": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/alg/rtsp

rtsp attributes

```
DELETE /axapi/v3/cgnv6/nat64/alg/rtsp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

rtsp attributes

rtsp-enable

Description 'enable': Enable NAT64 RTSP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.242 cgnv6 nat64 alg sip

NAT64 SIP ALG (default: disabled)

sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sip
Element URI	/axapi/v3/cgnv6/nat64/alg/sip
Element Attributes	sip_attributes
Partition Visibility	shared
Schema	`sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/alg/sip

sip attributes

```
POST /axapi/v3/cgnv6/nat64/alg/sip
Payload:
{
    "sip": {
        "sip-enable": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat64/alg/sip

sip attributes

```
GET /axapi/v3/cgnv6/nat64/alg/sip
Reponse:
{
    "sip": {
        "sip-enable": "enable",
        "uuid": "21fa7d1a-08b1-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat64/alg/sip"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat64/alg/sip

sip attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/alg/sip

sip attributes

```
PUT /axapi/v3/cgnv6/nat64/alg/sip
Payload:
{
    "sip": {
        "sip-enable": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/alg/sip

sip attributes

```
DELETE /axapi/v3/cgnv6/nat64/alg/sip
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

sip attributes

sip-enable

Description 'enable': Enable NAT64 SIP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.243 cgnv6 nat64 alg tftp

NAT64 TFTP ALG (default: disabled)

tftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tftp
Element URI	/axapi/v3/cgnv6/nat64/alg/tftp
Element Attributes	tftp_attributes
Partition Visibility	shared
Schema	`tftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/alg/tftp

tftp attributes

```
POST /axapi/v3/cgnv6/nat64/alg/tftp
Payload:
{
    "tftp": {
        "tftp-enable": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat64/alg/tftp

tftp attributes

```
GET /axapi/v3/cgnv6/nat64/alg/tftp
Reponse:
{
    "tftp": {
        "tftp-enable": "enable",
        "uuid": "3a814058-08b1-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat64/alg/tftp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat64/alg/tftp

tftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/alg/tftp

tftp attributes

```
PUT /axapi/v3/cgnv6/nat64/alg/tftp
Payload:
{
    "tftp": {
        "tftp-enable": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/alg/tftp

tftp attributes

```
DELETE /axapi/v3/cgnv6/nat64/alg/tftp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

tftp attributes

tftp-enable

Description 'enable': Enable NAT64 TFTP ALG;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.244 cgnv6 nat64 enhanced-user-tracking

NAT64 Enhanced User Data

enhanced-user-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	enhanced-user-tracking
Element URI	/axapi/v3/cgnv6/nat64/enhanced-user-tracking
Element Attributes	enhanced-user-tracking_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/nat64/enhanced-user-tracking/oper
Schema	`enhanced-user-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/enhanced-user-tracking

enhanced-user-tracking attributes

Get Object

GET

/axapi/v3/cgnv6/nat64/enhanced-user-tracking

enhanced-user-tracking attributes

Modify Object

POST

/axapi/v3/cgnv6/nat64/enhanced-user-tracking

enhanced-user-tracking attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/enhanced-user-tracking

enhanced-user-tracking attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/enhanced-user-tracking

enhanced-user-tracking attributes

enhanced-user-tracking attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.245 cgnv6 nat64 enhanced-user-tracking oper

Operational Status for the object enhanced-user-tracking

enhanced-user-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	enhanced-user-tracking
Element URI	/axapi/v3/cgnv6/nat64/enhanced-user-tracking/oper
Element Attributes	enhanced-user-tracking_attributes
Partition Visibility	None
Schema	`enhanced-user-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/enhanced-user-tracking/oper

enhanced-user-tracking attributes

Get Object

GET

/axapi/v3/cgnv6/nat64/enhanced-user-tracking/oper

enhanced-user-tracking attributes

Modify Object

POST

/axapi/v3/cgnv6/nat64/enhanced-user-tracking/oper

enhanced-user-tracking attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/enhanced-user-tracking/oper

enhanced-user-tracking attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/enhanced-user-tracking/oper

enhanced-user-tracking attributes

enhanced-user-tracking attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-partitions

Description

Type: boolean

Supported Values: true, false, 1, 0

inside-addr-v6

Description

Type: string

Format: ipv6-address

nat-pool-name

Description

Type: string

partition-name

Description

Type: string

pool-shared

Description

Type: boolean

Supported Values: true, false, 1, 0

prefix-filter

Description

Type: string

Format: ipv6-address-plen

shared-partition

Description

Type: boolean

Supported Values: true, false, 1, 0

user-count

Description

Type: number

user-list

Type: List

oper_user-list

Specification	Value
Type	*list*
Block object keys	

dwl-bytes

Description

Type: number

dwl-packets

Description

Type: number

icmp-peak

Description

Type: number

Range: 1-65535

icmp-quota

Description

Type: number

Range: 1-65535

inside-address

Description

Type: string

Format: ipv6-address

nat-address

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

prefix-len

Description

Type: number

session-count

Description

Type: number

session-count-tcp

Description

Type: number

session-count-udp

Description

Type: number

session-peak

Description

Type: number

tcp-peak

Description

Type: number

Range: 1-65535

tcp-quota

Description

Type: number

Range: 1-65535

total-session-count

Description

Type: number

udp-peak

Description

Type: number

Range: 1-65535

udp-quota

Description

Type: number

Range: 1-65535

upl-bytes

Description

Type: number

upl-packets

Description

Type: number

2.26.246 cgnv6 nat64 fragmentation

NAT64 Fragmentation parameters

fragmentation Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	fragmentation
Element URI	/axapi/v3/cgnv6/nat64/fragmentation
Element Attributes	fragmentation_attributes
Partition Visibility	shared
Schema	`fragmentation schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/nat64/fragmentation

fragmentation_attributes

fragmentation attributes

df-bit-transparency

Description: df-bit-transparency is a **JSON Block**. Please see below for *df-bit-transparency*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency*

inbound

Description: inbound is a **JSON Block**. Please see below for *inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat64/fragmentation/outbound*

inbound

Specification	Value
Type	*object*

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound

Specification	Value
Type	*object*

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation (default); 'send-icmpv6': Send ICMPv6 Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

df-bit-transparency

Specification	Value
Type	*object*

df-bit-value

Description 'enable': Add an empty IPv6 fragmentation header if IPv4 DF bit is zero;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.247 cgnv6 nat64 fragmentation df-bit-transparency

Add an empty IPv6 fragmentation header if IPv4 DF bit is zero (default:disabled)

df-bit-transparency Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	df-bit-transparency
Element URI	/axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency
Element Attributes	df-bit-transparency_attributes
Partition Visibility	shared
Schema	`df-bit-transparency schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency

df-bit-transparency attributes

```
POST /axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency
Payload:
{
    "df-bit-transparency": {
        "df-bit-value": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency

df-bit-transparency attributes

```
GET /axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency
Reponse:
{
    "df-bit-transparency": {
        "df-bit-value": "enable",
        "uuid": "7e2d54b8-08b1-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency

df-bit-transparency attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency

df-bit-transparency attributes

```
PUT /axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency
Payload:
{
    "df-bit-transparency": {
        "df-bit-value": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency

df-bit-transparency attributes

```
DELETE /axapi/v3/cgnv6/nat64/fragmentation/df-bit-transparency
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

df-bit-transparency attributes

df-bit-value

Description 'enable': Add an empty IPv6 fragmentation header if IPv4 DF bit is zero;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.248 cgnv6 nat64 fragmentation inbound

Fragmentation Behavior from NAT outside to NAT inside

inbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	inbound
Element URI	/axapi/v3/cgnv6/nat64/fragmentation/inbound
Element Attributes	inbound_attributes
Partition Visibility	shared
Schema	`inbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/fragmentation/inbound

inbound attributes

```
POST /axapi/v3/cgnv6/nat64/fragmentation/inbound
Payload:
{
    "inbound": {
        "df-set": "send-icmp",
        "count": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat64/fragmentation/inbound

inbound attributes

```
GET /axapi/v3/cgnv6/nat64/fragmentation/inbound
Reponse:
{
    "inbound": {
        "df-set": "send-icmp",
        "count": 1,
        "frag-action": "ipv6",
        "uuid": "c5ed2a56-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat64/fragmentation/inbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat64/fragmentation/inbound

inbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/fragmentation/inbound

inbound attributes

```
PUT /axapi/v3/cgnv6/nat64/fragmentation/inbound
Payload:
{
    "inbound": {
        "df-set": "send-icmp",
        "count": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/fragmentation/inbound

inbound attributes

```
DELETE /axapi/v3/cgnv6/nat64/fragmentation/inbound
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

inbound attributes

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

Default: 1

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default);

Type: string

Supported Values: drop, ipv6, send-icmp

Default: send-icmp

frag-action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 fragmentation for oversize packets (default);

Type: string

Supported Values: drop, ipv6

Default: ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.249 cgnv6 nat64 fragmentation outbound

Fragmentation Behavior from NAT inside to NAT outside

outbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	outbound
Element URI	/axapi/v3/cgnv6/nat64/fragmentation/outbound
Element Attributes	outbound_attributes
Partition Visibility	shared
Schema	`outbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/fragmentation/outbound

outbound attributes

```
POST /axapi/v3/cgnv6/nat64/fragmentation/outbound
Payload:
{
    "outbound": {
        "frag-action": "drop"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat64/fragmentation/outbound

outbound attributes

```
GET /axapi/v3/cgnv6/nat64/fragmentation/outbound
Reponse:
{
    "outbound": {
        "frag-action": "drop",
        "uuid": "c5ed2af6-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat64/fragmentation/outbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat64/fragmentation/outbound

outbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/fragmentation/outbound

outbound attributes

```
PUT /axapi/v3/cgnv6/nat64/fragmentation/outbound
Payload:
{
    "outbound": {
        "frag-action": "drop"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/fragmentation/outbound

outbound attributes

```
DELETE /axapi/v3/cgnv6/nat64/fragmentation/outbound
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

outbound attributes

frag-action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation (default); 'send-icmpv6': Send ICMPv6 Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv4, send-icmpv6

Default: ipv4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.250 cgnv6 nat64 full-cone-session

Full Cone Sessions

full-cone-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	full-cone-session
Element URI	/axapi/v3/cgnv6/nat64/full-cone-session
Element Attributes	full-cone-session_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/nat64/full-cone-session/oper
Schema	`full-cone-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/full-cone-session

full-cone-session attributes

Get Object

GET

/axapi/v3/cgnv6/nat64/full-cone-session

full-cone-session attributes

Modify Object

POST

/axapi/v3/cgnv6/nat64/full-cone-session

full-cone-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/full-cone-session

full-cone-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/full-cone-session

full-cone-session attributes

full-cone-session attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.251 cgnv6 nat64 full-cone-session oper

Operational Status for the object full-cone-session

full-cone-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	full-cone-session
Element URI	/axapi/v3/cgnv6/nat64/full-cone-session/oper
Element Attributes	full-cone-session_attributes
Partition Visibility	None
Schema	`full-cone-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/full-cone-session/oper

full-cone-session attributes

Get Object

GET

/axapi/v3/cgnv6/nat64/full-cone-session/oper

full-cone-session attributes

Modify Object

POST

/axapi/v3/cgnv6/nat64/full-cone-session/oper

full-cone-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/full-cone-session/oper

full-cone-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/full-cone-session/oper

full-cone-session attributes

full-cone-session attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-partitions

Description

Type: boolean

Supported Values: true, false, 1, 0

debug-session

Description

Type: boolean

Supported Values: true, false, 1, 0

graceful

Description

Type: boolean

Supported Values: true, false, 1, 0

inside-addr-v6

Description

Type: string

Format: ipv6-address

inside-addr-v6-end

Description

Type: string

Format: ipv6-address

inside-addr-v6-start

Description

Type: string

Format: ipv6-address

inside-port

Description

Type: number

nat-addr

Description

Type: string

Format: ipv4-address

nat-addr-end

Description

Type: string

Format: ipv4-address

nat-addr-start

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

nat-port

Description

Type: number

partition-name

Description

Type: string

pcp

Description

Type: boolean

Supported Values: true, false, 1, 0

pool-shared

Description

Type: boolean

Supported Values: true, false, 1, 0

session-count

Description

Type: number

session-list

Type: List

shared-partition

Description

Type: boolean

Supported Values: true, false, 1, 0

total-session-count

Description

Type: number

oper_session-list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: string

cpu

Description

Type: number

flags

Description

Type: string

inbound

Description

Type: number

inside-address

Description

Type: string

inside-port

Description

Type: number

nat-address

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

nat-port

Description

Type: number

outbound

Description

Type: number

protocol

Description

Type: string

2.26.252 cgnv6 nat64 global

Configure NAT64 parameters

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/nat64/global
Element Attributes	global_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/nat64/global/stats
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/global

global attributes

```
POST /axapi/v3/cgnv6/nat64/global
Payload:
{
    "global": {
        "user-quota-prefix-length": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat64/global

global attributes

```
GET /axapi/v3/cgnv6/nat64/global
Reponse:
{
    "global": {
        "user-quota-prefix-length": 1,
        "tcp": {
            "mss-clamp": {
                "mss-clamp-type": "subtract",
                "mss-subtract": 20,
                "min": 476
            }
        },
        "force-non-zero-ipv4-id": 0,
        "icmp": {
            "send-on-port-unavailable": "disable",
            "send-on-user-quota-exceeded": "admin-filtered"
        },
```

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```
        "uuid": "c5ed27a4-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat64/global"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat64/global

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/global

global attributes

```
PUT /axapi/v3/cgnv6/nat64/global
Payload:
{
    "global": {
        "user-quota-prefix-length": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/global

global attributes

```
DELETE /axapi/v3/cgnv6/nat64/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

global attributes

all

Description All packet sizes

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force-non-zero-ipv4-id

Description Enable non-zero ID field in IPv4 header if no IPv6 fragment & IPv4 pkt size is more than 88 & less than or equal to 1280 bytes

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmp

Description: icmp is a **JSON Block**. Please see below for *icmp*

Type: Object

inside

Description: inside is a **JSON Block**. Please see below for *inside*

Type: Object

sampling-enable

Type: List

tcp

Description: tcp is a **JSON Block**. Please see below for *tcp*

Type: Object

user-quota-prefix-length

Description User Quota Prefix Length (Default: 128)

Type: number

Range: 1-128

Default: 128

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

inside

Specification	Value
Type	*object*

source

Description: source is a **JSON Block**. Please see below for *inside_source*

Type: Object

inside_source

Specification	Value
Type	*object*

class-list

Description Class-list to match for NAT64

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total_tcp_allocated': Total TCP Ports Allocated; 'total_tcp_freed': Total TCP Ports Freed; 'total_udp_allocated': Total UDP Ports Allocated; 'total_udp_freed': Total UDP Ports Freed; 'total_icmp_allocated': Total ICMP Ports Allocated; 'total_icmp_freed': Total ICMP Ports Freed; 'data_session_created': Data Session Created; 'data_session_freed': Data Session Freed; 'user_quota_created': User-Quota Created; 'user_quota_put_in_del_q': User-Quota Freed; 'user_quota_failure': User-Quota Creation Failed; 'nat_port_unavailable_tcp': TCP NAT Port Unavailable; 'nat_port_unavailable_udp': UDP NAT Port Unavailable; 'nat_port_unavailable_icmp': ICMP NAT Port Unavailable; 'new_user_resource_unavailable': New User NAT Resource Unavailable; 'tcp_user_quota_exceeded': TCP User-Quota Exceeded; 'udp_user_quota_exceeded': UDP User-Quota Exceeded; 'icmp_user_quota_exceeded': ICMP User-Quota Exceeded; 'extended_quota_matched': Extended User-Quota Matched; 'extended_quota_exceeded': Extended User-Quota Exceeded; 'data_sesn_user_quota_exceeded': Data Session User-Quota Exceeded; 'data_sesn_rate_user_quota_exceeded': Conn Rate User-Quota Exceeded; 'tcp_fullcone_created': TCP Full-cone Session Created; 'tcp_fullcone_freed': TCP Full-cone Session Freed; 'udp_fullcone_created': UDP Full-cone Session Created;

'udp_fullcone_freed': UDP Full-cone Session Freed; 'fullcone_failure': Full-cone Session Creation Failed; 'hairpin': Hairpin Session Created; 'fullcone_self_hairpinning_drop': Self-Hairpinning Drop; 'endpoint_indep_map_match': Endpoint-Independent Mapping Matched; 'endpoint_indep_filter_match': Endpoint-Independent Filtering Matched; 'inbound_filtered': Endpoint-Dependent Filtering Drop; 'eif_limit_exceeded': Endpoint-Independent Filtering Inbound Limit Exceeded; 'total_tcp_overloaded': TCP Port Overloaded; 'total_udp_overloaded': UDP Port Overloaded; 'port_overloading_smp_inserted_tcp': TCP Port Overloading Session Created; 'port_overloading_smp_inserted_udp': UDP Port Overloading Session Created; 'port_overloading_smp_free_tcp': TCP Port Overloading Session Freed; 'port_overloading_smp_free_udp': UDP Port Overloading Session Freed; 'nat_pool_unusable': NAT Pool Unusable; 'ha_nat_pool_unusable': HA NAT Pool Unusable; 'ha_nat_pool_batch_type_mismatch': HA NAT Pool Batch Type Mismatch; 'no_radius_profile_match': No RADIUS Profile Match; 'l3': Layer 3 Forwarded Packets; 'source_matches_prefix': Source Address Prefix Match Drop; 'lid_drop': LSN LID Drop; 'lid_pass_through': LSN LID Pass-through; 'no_class_list_match': No Class-List Match; 'user_quota_mem_allocated': User-Quota Memory Allocated; 'user_quota_mem_freed': User-Quota Memory Freed; 'user_quota_created_shadow': Total User-Quota Created; 'quota_marked_deleted': User-Quota Marked Deleted; 'quota_delete_not_in_bucket': User-Quota Delete Not In Bucket; 'user_quota_put_in_del_q_shadow': Total User-Quota Put In Del Q; 'prefix_quota_created': Total Prefix Quota Created; 'prefix_quota_put_in_del_q': Total Prefix Quota Freed; 'prefix_quota_failure': Total Prefix Quota Failure; 'total_user_quota_created': Total Quota Structure Created; 'total_user_quota_put_in_del_q': Total Quota Structure Freed; 'total_user_quota_failure': Total Quota Structure Failure; 'tcp_out_of_state_rst_sent': Total Out of State TCP RST sent; 'tcp_out_of_state_rst_dropped': Total Out of State TCP RST dropped; 'icmp_out_of_state_uqe_admin_filtered_sent': Total User Quota Exceeded ICMP admin filtered sent; 'icmp_out_of_state_uqe_host_unreachable_sent': Total User Quota Exceeded ICMP host unreachable sent; 'icmp_out_of_state_uqe_dropped': Total User Queue Exceeded ICMP notification dropped; 'user_quota_not_found': User-Quota Not Found; 'tcp_fullcone_created_shadow': Total TCP Full-cone sessions created; 'tcp_fullcone_freed_shadow': Total TCP Full-cone sessions freed; 'udp_fullcone_created_shadow': Total UDP Full-cone sessions created; 'udp_fullcone_freed_shadow': Total UDP Full-cone sessions freed; 'udp_alg_fullcone_created': Total UDP ALG Full-cone sessions created; 'udp_alg_fullcone_freed': Total UDP ALG Full-cone sessions freed; 'fullcone_created': Total Full-cone sessions created; 'fullcone_freed': Total Full-cone sessions freed; 'data_session_created_shadow': Total Data Sessions Created; 'data_session_freed_shadow': Total Data Sessions Freed; 'data_session_user_quota_mismatch': Data Session Counter Per User Mismatch; 'extended_quota_mismatched': Extended User-Quota Mismatched; 'nat_port_unavailable_other': Other NAT Port Unavailable; 'nat_port_unavailable': Total NAT Port Unavailable; 'new_user_resource_unavailable_tcp': TCP New User NAT Resource Unavailable; 'new_user_resource_unavailable_udp': UDP New User NAT Resource Unavailable; 'new_user_resource_unavailable_icmp': ICMP New User NAT Resource Unavailable; 'new_user_resource_unavailable_other': Other New User NAT Resource Unavailable; 'total_tcp_allocated_shadow': Total TCP Ports Allocated; 'total_tcp_freed_shadow': Total TCP Ports Freed; 'total_udp_allocated_shadow': Total UDP Ports Allocated; 'total_udp_freed_shadow': Total UDP Ports Freed; 'total_icmp_allocated_shadow': Total ICMP Ports Allocated; 'total_icmp_freed_shadow': Total ICMP Ports Freed; 'udp_alg_no_quota': UDP ALG User-Quota Not Found; 'udp_alg_eim_mismatch': UDP ALG Endpoint-Independent Mapping Mismatch; 'udp_alg_no_nat_ip': UDP ALG User-Quota Unknown NAT IP; 'udp_alg_alloc_failure': UDP ALG Port Allocation Failure; 'sip_alg_no_quota': SIP ALG User-Quota Not Found; 'sip_alg_quota_inc_failure': SIP ALG User-Quota Exceeded; 'sip_alg_no_nat_ip': SIP ALG Unknown NAT IP; 'sip_alg_reuse_contact_fullcone': SIP ALG Reuse Contact Full-cone Session; 'sip_alg_contact_fullcone_mismatch': SIP

ALG Contact Full-cone Session Mismatch; 'sip_alg_alloc_contact_port_failure': SIP ALG Alloc Contact NAT Port Failure; 'sip_alg_create_contact_fullcone_failure': SIP ALG Create Contact Full-cone Session Failure; 'sip_alg_release_contact_port_failure': SIP ALG Release Contact NAT Port Failure; 'sip_alg_single_rtp_fullcone': SIP ALG Single RTP Full-cone Found; 'sip_alg_single_rtcp_fullcone': SIP ALG Single RTCP Full-cone Found; 'sip_alg_rtcp_fullcone_mismatch': SIP ALG RTCP Full-cone NAT Port Mismatch; 'sip_alg_reuse_rtp_rtcp_fullcone': SIP ALG Reuse RTP/RTCP Full-cone Session; 'sip_alg_alloc_rtp_rtcp_port_failure': SIP ALG Alloc RTP/RTCP NAT Ports Failure; 'sip_alg_alloc_single_port_failure': SIP ALG Alloc Single RTP or RTCP NAT Port Failure; 'sip_alg_create_single_fullcone_failure': SIP ALG Create Single RTP or RTCP Full-cone Session Failure; 'sip_alg_create_rtp_fullcone_failure': SIP ALG Create RTP Full-cone Session Failure; 'sip_alg_create_rtcp_fullcone_failure': SIP ALG Create RTCP Full-cone Session Failure; 'sip_alg_port_pair_alloc_from_consecutive': SIP ALG Port Pair Allocated From Consecutive; 'sip_alg_port_pair_alloc_from_partition': SIP ALG Port Pair Allocated From Partition; 'sip_alg_port_pair_alloc_from_pool_port_batch': SIP ALG Port Pair Allocated From Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_consecutive': SIP ALG Port Pair Allocated From Quota Consecutive; 'sip_alg_port_pair_alloc_from_quota_partition': SIP ALG Port Pair Allocated From Quota Partition; 'sip_alg_port_pair_alloc_from_quota_partition_error': SIP ALG Port Pair Allocated From Quota Partition Error; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch': SIP ALG Port Pair Allocated From Quota Pool Port Batch; 'sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag': SIP ALG Port Pair Allocated From Quota Port Batch Version 2 with Frag Free Ports;

Type: string

Supported Values: all, total_tcp_allocated, total_tcp_freed, total_udp_allocated, total_udp_freed, total_icmp_allocated, total_icmp_freed, data_session_created, data_session_freed, user_quota_created, user_quota_put_in_del_q, user_quota_failure, nat_port_unavailable_tcp, nat_port_unavailable_udp, nat_port_unavailable_icmp, new_user_resource_unavailable, tcp_user_quota_exceeded, udp_user_quota_exceeded, icmp_user_quota_exceeded, extended_quota_matched, extended_quota_exceeded, data_sesn_user_quota_exceeded, data_sesn_rate_user_quota_exceeded, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_failure, hairpin, fullcone_self_hairpinning_drop, endpoint_indep_map_match, endpoint_indep_filter_match, inbound_filtered, eif_limit_exceeded, total_tcp_overloaded, total_udp_overloaded, port_overloading_smp_inserted_tcp, port_overloading_smp_inserted_udp, port_overloading_smp_free_tcp, port_overloading_smp_free_udp, nat_pool_unusable, ha_nat_pool_unusable, ha_nat_pool_batch_type_mismatch, no_radius_profile_match, l3, source_matches_prefix, lid_drop, lid_pass_through, no_class_list_match, user_quota_mem_allocated, user_quota_mem_freed, user_quota_created_shadow, quota_marked_deleted, quota_delete_not_in_bucket, user_quota_put_in_del_q_shadow, prefix_quota_created, prefix_quota_put_in_del_q, prefix_quota_failure, total_user_quota_created, total_user_quota_put_in_del_q, total_user_quota_failure, tcp_out_of_state_rst_sent, tcp_out_of_state_rst_dropped, icmp_out_of_state_uqe_admin_filtered_sent, icmp_out_of_state_uqe_host_unreachable_sent, icmp_out_of_state_uqe_dropped, user_quota_not_found, tcp_fullcone_created_shadow, tcp_fullcone_freed_shadow, udp_fullcone_created_shadow, udp_fullcone_freed_shadow, udp_alg_fullcone_created, udp_alg_fullcone_freed, fullcone_created, fullcone_freed, data_session_created_shadow, data_session_freed_shadow, data_session_user_quota_mismatch, extended_quota_mismatched, nat_port_unavailable_other, nat_port_unavailable, new_user_resource_unavailable_tcp, new_user_resource_unavailable_udp, new_user_resource_unavailable_icmp, new_user_resource_unavailable_other, total_tcp_allocated_shadow, total_tcp_freed_shadow, total_udp_allocated_shadow, total_udp_freed_shadow, total_icmp_allocated_shadow, total_icmp_freed_shadow, udp_alg_no_quota,

udp_alg_eim_mismatch, udp_alg_no_nat_ip, udp_alg_alloc_failure, sip_alg_no_quota, sip_alg_quota_inc_failure, sip_alg_no_nat_ip, sip_alg_reuse_contact_fullcone, sip_alg_contact_fullcone_mismatch, sip_alg_alloc_contact_port_failure, sip_alg_create_contact_fullcone_failure, sip_alg_release_contact_port_failure, sip_alg_single_rtp_fullcone, sip_alg_single_rtcp_fullcone, sip_alg_rtcp_fullcone_mismatch, sip_alg_reuse_rtp_rtcp_fullcone, sip_alg_alloc_rtp_rtcp_port_failure, sip_alg_alloc_single_port_failure, sip_alg_create_single_fullcone_failure, sip_alg_create_rtp_fullcone_failure, sip_alg_create_rtcp_fullcone_failure, sip_alg_port_pair_alloc_from_consecutive, sip_alg_port_pair_alloc_from_partition, sip_alg_port_pair_alloc_from_pool_port_batch, sip_alg_port_pair_alloc_from_quota_consecutive, sip_alg_port_pair_alloc_from_quota_partition, sip_alg_port_pair_alloc_from_quota_partition_error, sip_alg_port_pair_alloc_from_quota_pool_port_batch, sip_alg_port_pair_alloc_from_quota_pool_port_batch_with_frag

counters2

Description 'h323_alg_no_quota': H323 ALG User-Quota Not Found; 'h323_alg_quota_inc_failure': H323 ALG User-Quota Exceeded; 'h323_alg_no_nat_ip': H323 ALG Unknown NAT IP; 'h323_alg_reuse_fullcone': H323 ALG Reuse Full-cone Session; 'h323_alg_fullcone_mismatch': H323 ALG Full-cone Session Mismatch; 'h323_alg_alloc_port_failure': H323 ALG Alloc NAT Port Failure; 'h323_alg_create_fullcone_failure': H323 ALG Create Full-cone Session Failure; 'h323_alg_release_port_failure': H323 ALG Release NAT Port Failure; 'h323_alg_single_rtp_fullcone': H323 ALG Single RTP Full-cone Found; 'h323_alg_single_rtcp_fullcone': H323 ALG Single RTCP Full-cone Found; 'h323_alg_rtcp_fullcone_mismatch': H323 ALG RTCP Full-cone NAT Port Mismatch; 'h323_alg_reuse_rtp_rtcp_fullcone': H323 ALG Reuse RTP/RTCP Full-cone Session; 'h323_alg_alloc_rtp_rtcp_port_failure': H323 ALG Alloc RTP/RTCP NAT Ports Failure; 'h323_alg_alloc_single_port_failure': H323 ALG Alloc Single RTP or RTCP NAT Port Failure; 'h323_alg_create_single_fullcone_failure': H323 ALG Create Single RTP or RTCP Full-cone Session Failure; 'h323_alg_create_rtp_fullcone_failure': H323 ALG Create RTP Full-cone Session Failure; 'h323_alg_create_rtcp_fullcone_failure': H323 ALG Create RTCP Full-cone Session Failure; 'h323_alg_port_pair_alloc_from_consecutive': H323 ALG Port Pair Allocated From Consecutive; 'h323_alg_port_pair_alloc_from_partition': H323 ALG Port Pair Allocated From Partition; 'h323_alg_port_pair_alloc_from_pool_port_batch': H323 ALG Port Pair Allocated From Pool Port Batch; 'h323_alg_port_pair_alloc_from_quota_consecutive': H323 ALG Port Pair Allocated From Quota Consecutive; 'h323_alg_port_pair_alloc_from_quota_partition': H323 ALG Port Pair Allocated From Quota Partition; 'h323_alg_port_pair_alloc_from_quota_partition_error': H323 ALG Port Pair Allocated From Quota Partition Error; 'h323_alg_port_pair_alloc_from_quota_pool_port_batch': H323 ALG Port Pair Allocated From Quota Pool Port Batch; 'port_batch_quota_extension_alloc_failure': Port Batch Extension Alloc Failure (No memory); 'port_batch_free_quota_not_found': Port Batch Quota Not Found on Free; 'port_batch_free_port_not_found': Port Batch Port Not Found on Free; 'port_batch_free_wrong_partition': Port Batch Free Wrong Partition; 'radius_query_quota_ext_alloc_failure': RADIUS Query Container Alloc (No Memoty); 'radius_query_quota_ext_alloc_race_free': RADIUS Query Container Alloc Race Free; 'quota_extension_added': Quota Extension Added to Quota; 'quota_extension_removed': Quota Extension Removed from Quota; 'quota_extension_remove_not_found': Quota Extension Not Found on Remove; 'ha_sync_port_batch_sent': HA Port Batch Extension Sync Sent; 'ha_sync_port_batch_rcv': HA Port Batch Extension Sync Received; 'ha_send_port_batch_not_found': HA Port Batch Not Found on Sync Send; 'ha_rcv_port_not_in_port_batch': HA Port Not in Port Batch on Sync Rcv; 'bad_port_to_free': Freeing Bad Port; 'consecutive_port_free': Port Freed from Consecutive Pool; 'partition_port_free': Port Freed from Partition; 'pool_port_batch_port_free':

Port Freed from Pool Port Batch; 'port_allocated_from_quota_consecutive': Port Allocated from Quota Consecutive; 'port_allocated_from_quota_partition': Port Allocated from Quota Partition; 'port_allocated_from_quota_pool_port_batch': Port Allocated from Quota Pool Port Batch; 'port_freed_from_quota_consecutive': Port Freed from Quota Consecutive; 'port_freed_from_quota_partition': Port Freed from Quota Partition; 'port_freed_from_quota_pool_port_batch': Port Freed from Quota Pool Port Batch; 'port_batch_allocated_to_quota': Port Batch Allocated to Quota; 'port_batch_freed_from_quota': Port Batch Freed From Quota; 'specific_port_allocated_from_quota_consecutive': Specific Port Allocated from Quota Consecutive; 'specific_port_allocated_from_quota_partition': Specific Port Allocated from Quota Partition; 'specific_port_allocated_from_quota_pool_port_batch': Specific Port Allocated from Quota Pool Port Batch; 'port_batch_container_alloc_failure': Port Batch Container Alloc Out of Memory; 'port_batch_container_alloc_race_free': Port Batch Container Race Free; 'port_overloading_destination_conflict': Port Overloading Destination Conflict; 'port_overloading_out_of_memory': Port Overloading Out of Memory; 'port_overloading_assign_user': Port Overloading Port Assign User; 'port_overloading_assign_user_port_batch': Port Overloading Port Assign User Port Batch; 'port_overloading_inc': Port Overloading Port Increment; 'port_overloading_dec_on_conflict': Port Overloading Port Decrement on Conflict; 'port_overloading_dec_on_free': Port Overloading Port Decrement on Free; 'port_overloading_free_port_on_conflict': Port Overloading Free Port on Conflict; 'port_overloading_free_port_batch_on_conflict': Port Overloading Free Port Batch on Conflict; 'port_overloading_inc_overflow': Port Overloading Inc Overflow; 'port_overloading_attempt_consecutive_ports': Port Overloading on Consecutive Ports; 'port_overloading_attempt_same_partition': Port Overloading on Same Partition; 'port_overloading_attempt_diff_partition': Port Overloading on Different Partition; 'port_overloading_attempt_failed': Port Overloading Attempt Failed; 'port_overloading_conn_free_retry_lookup': Port Overloading Conn Free Retry Lookup; 'port_overloading_conn_free_not_found': Port Overloading Conn Free Not Found; 'port_overloading_smp_mem_allocated': Port Overloading SMP Session Allocated; 'port_overloading_smp_mem_freed': Port Overloading SMP Session Freed; 'port_overloading_smp_inserted': Port Overloading SMP Inserted; 'port_overloading_smp_inserted_tcp_shadow': Total Port Overloading SMP TCP Inserted; 'port_overloading_smp_inserted_udp_shadow': Total Port Overloading SMP UDP Inserted; 'port_overloading_smp_free_tcp_shadow': Total Port Overloading SMP TCP Freed; 'port_overloading_smp_free_udp_shadow': Total Port Overloading SMP UDP Freed; 'port_overloading_smp_put_in_del_q_from_conn': Port Overloading SMP Free From Conn; 'port_overloading_smp_free_dec_failure': Port Overloading SMP Free Dec Failure; 'port_overloading_smp_free_no_quota': Port Overloading SMP Free No Quota; 'port_overloading_smp_free_port': Port Overloading SMP Free Port; 'port_overloading_smp_free_port_from_quota': Port Overloading SMP Free Port From Quota; 'port_overloading_for_no_ports': Port Overloading for No Ports; 'port_overloading_for_no_ports_success': Port Overloading for No Ports Success; 'port_overloading_for_quota_exceeded': Port Overloading for Quota Exceeded; 'port_overloading_for_quota_exceeded_success': Port Overloading for Quota Exceeded Success; 'port_overloading_for_quota_exceeded_race': Port Overloading for Quota Exceeded Race; 'port_overloading_for_quota_exceeded_race_success': Port Overloading for Quota Exceeded Race Success; 'port_overloading_for_new_user': Port Overloading for New User; 'port_overloading_for_new_user_success': Port Overloading for New User Success; 'ha_port_overloading_attempt_failed': HA Port Overloading Attempt Failed; 'ha_port_overloading_for_no_ports': HA Port Overloading for No Ports; 'ha_port_overloading_for_no_ports_success': HA Port Overloading for No Ports Success; 'ha_port_overloading_for_quota_exceeded': HA Port Overloading for Quota Exceeded; 'ha_port_overloading_for_quota_exceeded_success': HA Port Overloading for Quota Ex-

ceeded Success; 'ha_port_overloading_for_quota_exceeded_race': HA Port Overloading for Quota Exceeded Race; 'ha_port_overloading_for_quota_exceeded_race_success': HA Port Overloading for Quota Exceeded Race Success; 'ha_port_overloading_for_new_user': HA Port Overloading for New User; 'ha_port_overloading_for_new_user_success': HA Port Overloading for New User Success;

Type: string

Supported Values: h323_alg_no_quota, h323_alg_quota_inc_failure, h323_alg_no_nat_ip, h323_alg_reuse_fullcone, h323_alg_fullcone_mismatch, h323_alg_alloc_port_failure, h323_alg_create_fullcone_failure, h323_alg_release_port_failure, h323_alg_single_rtp_fullcone, h323_alg_single_rtcp_fullcone, h323_alg_rtcp_fullcone_mismatch, h323_alg_reuse_rtp_rtcp_fullcone, h323_alg_alloc_rtp_rtcp_port_failure, h323_alg_alloc_single_port_failure, h323_alg_create_single_fullcone_failure, h323_alg_create_rtp_fullcone_failure, h323_alg_create_rtcp_fullcone_failure, h323_alg_port_pair_alloc_from_consecutive, h323_alg_port_pair_alloc_from_partition, h323_alg_port_pair_alloc_from_pool_port_batch, h323_alg_port_pair_alloc_from_quota_consecutive, h323_alg_port_pair_alloc_from_quota_partition, h323_alg_port_pair_alloc_from_quota_partition_error, h323_alg_port_pair_alloc_from_quota_pool_port_batch, port_batch_quota_extension_alloc_failure, port_batch_free_quota_not_found, port_batch_free_port_not_found, port_batch_free_wrong_partition, radius_query_quota_ext_alloc_failure, radius_query_quota_ext_alloc_race_free, quota_extension_added, quota_extension_removed, quota_extension_remove_not_found, ha_sync_port_batch_sent, ha_sync_port_batch_rcv, ha_send_port_batch_not_found, ha_rcv_port_not_in_port_batch, bad_port_to_free, consecutive_port_free, partition_port_free, pool_port_batch_port_free, port_allocated_from_quota_consecutive, port_allocated_from_quota_partition, port_allocated_from_quota_pool_port_batch, port_freed_from_quota_consecutive, port_freed_from_quota_partition, port_freed_from_quota_pool_port_batch, port_batch_allocated_to_quota, port_batch_freed_from_quota, specific_port_allocated_from_quota_consecutive, specific_port_allocated_from_quota_partition, specific_port_allocated_from_quota_pool_port_batch, port_batch_container_alloc_failure, port_batch_container_alloc_race_free, port_overloading_destination_conflict, port_overloading_out_of_memory, port_overloading_assign_user, port_overloading_assign_user_port_batch, port_overloading_inc, port_overloading_dec_on_conflict, port_overloading_dec_on_free, port_overloading_free_port_on_conflict, port_overloading_free_port_batch_on_conflict, port_overloading_inc_overflow, port_overloading_attempt_consecutive_ports, port_overloading_attempt_same_partition, port_overloading_attempt_diff_partition, port_overloading_attempt_failed, port_overloading_conn_free_retry_lookup, port_overloading_conn_free_not_found, port_overloading_smp_mem_allocated, port_overloading_smp_mem_freed, port_overloading_smp_inserted, port_overloading_smp_inserted_tcp_shadow, port_overloading_smp_inserted_udp_shadow, port_overloading_smp_free_tcp_shadow, port_overloading_smp_free_udp_shadow, port_overloading_smp_put_in_del_q_from_conn, port_overloading_smp_free_dec_failure, port_overloading_smp_free_no_quota, port_overloading_smp_free_port, port_overloading_smp_free_port_from_quota, port_overloading_for_no_ports, port_overloading_for_no_ports_success, port_overloading_for_quota_exceeded, port_overloading_for_quota_exceeded_success, port_overloading_for_quota_exceeded_race, port_overloading_for_quota_exceeded_race_success, port_overloading_for_new_user, port_overloading_for_new_user_success, ha_port_overloading_attempt_failed, ha_port_overloading_for_no_ports, ha_port_overloading_for_no_ports_success, ha_port_overloading_for_quota_exceeded, ha_port_overloading_for_quota_exceeded_success, ha_port_overloading_for_quota_exceeded_race, ha_port_overloading_for_quota_exceeded_race_success, ha_port_overloading_for_new_user, ha_port_overloading_for_new_user_success

counters3

Description 'nat_pool_force_delete': NAT Pool Force Delete; 'quota_ext_too_many': Quota Ext Too Many; 'nat_pool_not_found_on_free': NAT Pool Not Found on Free; 'standby_class_list_drop': Standby Class-List Drop; 'dst_prefix_mismatch': Destination Prefix Mismatch Drop; 'fullcone_inbound_nat_pool_mismatch': Full-cone Session NAT Pool Mismatch; '6rd_no_match_domain_drop': Sixrd Packets Domain Not Found; 'ha_prefix_not_found': HA No Matching Prefix Found; 'nat_pool_attempt_adding_multiple_free_batches': Attempt Adding Multiple Free Batches to Quota; 'nat_pool_add_free_batch_failed': Add Batch to Quota Failed; 'mgcp_alg_no_quota': MGCP ALG User-Quota Not Found; 'mgcp_alg_quota_inc_failure': MGCP ALG User-Quota Exceeded; 'mgcp_alg_no_nat_ip': MGCP ALG Unknown NAT IP; 'mgcp_alg_reuse_fullcone': MGCP ALG Reuse Full-cone Session; 'mgcp_alg_fullcone_mismatch': MGCP ALG Full-cone Session Mismatch; 'mgcp_alg_alloc_port_failure': MGCP ALG Alloc NAT Port Failure; 'mgcp_alg_create_fullcone_failure': MGCP ALG Create Full-cone Session Failure; 'mgcp_alg_release_port_failure': MGCP ALG Release NAT Port Failure; 'mgcp_alg_single_rtp_fullcone': MGCP ALG Single RTP Full-cone Found; 'mgcp_alg_single_rtcp_fullcone': MGCP ALG Single RTCP Full-cone Found; 'mgcp_alg_rtcp_fullcone_mismatch': MGCP ALG RTCP Full-cone NAT Port Mismatch; 'mgcp_alg_reuse_rtp_rtcp_fullcone': MGCP ALG Reuse RTP/RTCP Full-cone Session; 'mgcp_alg_alloc_rtp_rtcp_port_failure': MGCP ALG Alloc RTP/RTCP NAT Ports Failure; 'mgcp_alg_alloc_single_port_failure': MGCP ALG Alloc Single RTP or RTCP NAT Port Failure; 'mgcp_alg_create_single_fullcone_failure': MGCP ALG Create Single RTP or RTCP Full-cone Session Failure; 'mgcp_alg_create_rtp_fullcone_failure': MGCP ALG Create RTP Full-cone Session Failure; 'mgcp_alg_create_rtcp_fullcone_failure': MGCP ALG Create RTCP Full-cone Session Failure; 'mgcp_alg_port_pair_alloc_from_consecutive': MGCP ALG Port Pair Allocated From Consecutive; 'mgcp_alg_port_pair_alloc_from_partition': MGCP ALG Port Pair Allocated From Partition; 'mgcp_alg_port_pair_alloc_from_pool_port_batch': MGCP ALG Port Pair Allocated From Pool Port Batch; 'mgcp_alg_port_pair_alloc_from_quota_consecutive': MGCP ALG Port Pair Allocated From Quota Consecutive; 'mgcp_alg_port_pair_alloc_from_quota_partition': MGCP ALG Port Pair Allocated From Quota Partition; 'mgcp_alg_port_pair_alloc_from_quota_partition_error': MGCP ALG Port Pair Allocated From Quota Partition Error; 'mgcp_alg_port_pair_alloc_from_quota_pool_port_batch': MGCP ALG Port Pair Allocated From Quota Pool Port Batch; 'user_quota_unusable_drop': User-Quota Unusable Drop; 'user_quota_unusable': User-Quota Marked Unusable; 'nat_pool_same_port_batch_udp_failed': Simultaneous Batch Allocation UDP Port Allocation Failed; 'adc_port_allocation_failed': ADC Port Allocation Failed; 'adc_port_allocation_ineligible': ADC Port Allocation Not Allowed; 'fwd_ingress_packets_tcp': Forward Ingress Packets TCP; 'fwd_egress_packets_tcp': Forward Egress Packets TCP; 'rev_ingress_packets_tcp': Reverse Ingress Packets TCP; 'rev_egress_packets_tcp': Reverse Egress Packets TCP; 'fwd_ingress_bytes_tcp': Forward Ingress Bytes TCP; 'fwd_egress_bytes_tcp': Forward Egress Bytes TCP; 'rev_ingress_bytes_tcp': Reverse Ingress Bytes TCP; 'rev_egress_bytes_tcp': Reverse Egress Bytes TCP; 'fwd_ingress_packets_udp': Forward Ingress Packets UDP; 'fwd_egress_packets_udp': Forward Egress Packets UDP; 'rev_ingress_packets_udp': Reverse Ingress Packets UDP; 'rev_egress_packets_udp': Reverse Egress Packets UDP; 'fwd_ingress_bytes_udp': Forward Ingress Bytes UDP; 'fwd_egress_bytes_udp': Forward Egress Bytes UDP; 'rev_ingress_bytes_udp': Reverse Ingress Bytes UDP; 'rev_egress_bytes_udp': Reverse Egress Bytes UDP; 'fwd_ingress_packets_icmp': Forward Ingress Packets ICMP; 'fwd_egress_packets_icmp': Forward Egress Packets ICMP; 'rev_ingress_packets_icmp': Reverse Ingress Packets ICMP;

'rev_egress_packets_icmp': Reverse Egress Packets ICMP; 'fwd_ingress_bytes_icmp': Forward Ingress Bytes ICMP; 'fwd_egress_bytes_icmp': Forward Egress Bytes ICMP; 'rev_ingress_bytes_icmp': Reverse Ingress Bytes ICMP; 'rev_egress_bytes_icmp': Reverse Egress Bytes ICMP; 'fwd_ingress_packets_others': Forward Ingress Packets OTHERS; 'fwd_egress_packets_others': Forward Egress Packets OTHERS; 'rev_ingress_packets_others': Reverse Ingress Packets OTHERS; 'rev_egress_packets_others': Reverse Egress Packets OTHERS; 'fwd_ingress_bytes_others': Forward Ingress Bytes OTHERS; 'fwd_egress_bytes_others': Forward Egress Bytes OTHERS; 'rev_ingress_bytes_others': Reverse Ingress Bytes OTHERS; 'rev_egress_bytes_others': Reverse Egress Bytes OTHERS; 'fwd_ingress_pkt_size_range1': Forward Ingress Packet size between 0 and 200; 'fwd_ingress_pkt_size_range2': Forward Ingress Packet size between 201 and 800; 'fwd_ingress_pkt_size_range3': Forward Ingress Packet size between 801 and 1550; 'fwd_ingress_pkt_size_range4': Forward Ingress Packet size between 1551 and 9000; 'fwd_egress_pkt_size_range1': Forward Egress Packet size between 0 and 200; 'fwd_egress_pkt_size_range2': Forward Egress Packet size between 201 and 800; 'fwd_egress_pkt_size_range3': Forward Egress Packet size between 801 and 1550; 'fwd_egress_pkt_size_range4': Forward Egress Packet size between 1551 and 9000; 'rev_ingress_pkt_size_range1': Reverse Ingress Packet size between 0 and 200; 'rev_ingress_pkt_size_range2': Reverse Ingress Packet size between 201 and 800; 'rev_ingress_pkt_size_range3': Reverse Ingress Packet size between 801 and 1550; 'rev_ingress_pkt_size_range4': Reverse Ingress Packet size between 1551 and 9000; 'rev_egress_pkt_size_range1': Reverse Egress Packet size between 0 and 200; 'rev_egress_pkt_size_range2': Reverse Egress Packet size between 201 and 800; 'rev_egress_pkt_size_range3': Reverse Egress Packet size between 801 and 1550; 'rev_egress_pkt_size_range4': Reverse Egress Packet size between 1551 and 9000; 'prefix_quota_mismatch': Prefix Quota NAT IP Mismatch;

Type: string

Supported Values: nat_pool_force_delete, quota_ext_too_many, nat_pool_not_found_on_free, standby_class_list_drop, dst_prefix_mismatch, fullcone_inbound_nat_pool_mismatch, 6rd_no_match_domain_drop, ha_prefix_not_found, nat_pool_attempt_adding_multiple_free_batches, nat_pool_add_free_batch_failed, mgcp_alg_no_quota, mgcp_alg_quota_inc_failure, mgcp_alg_no_nat_ip, mgcp_alg_reuse_fullcone, mgcp_alg_fullcone_mismatch, mgcp_alg_alloc_port_failure, mgcp_alg_create_fullcone_failure, mgcp_alg_release_port_failure, mgcp_alg_single_rtp_fullcone, mgcp_alg_single_rtcp_fullcone, mgcp_alg_rtcp_fullcone_mismatch, mgcp_alg_reuse_rtp_rtcp_fullcone, mgcp_alg_alloc_rtp_rtcp_port_failure, mgcp_alg_alloc_single_port_failure, mgcp_alg_create_single_fullcone_failure, mgcp_alg_create_rtp_fullcone_failure, mgcp_alg_create_rtcp_fullcone_failure, mgcp_alg_port_pair_alloc_from_consecutive, mgcp_alg_port_pair_alloc_from_partition, mgcp_alg_port_pair_alloc_from_pool_port_batch, mgcp_alg_port_pair_alloc_from_quota_consecutive, mgcp_alg_port_pair_alloc_from_quota_partition, mgcp_alg_port_pair_alloc_from_quota_partition_error, mgcp_alg_port_pair_alloc_from_quota_pool_port_batch, user_quota_unusable_drop, user_quota_unusable, nat_pool_same_port_batch_udp_failed, adc_port_allocation_failed, adc_port_allocation_ineligible, fwd_ingress_packets_tcp, fwd_egress_packets_tcp, rev_ingress_packets_tcp, rev_egress_packets_tcp, fwd_ingress_bytes_tcp, fwd_egress_bytes_tcp, rev_ingress_bytes_tcp, rev_egress_bytes_tcp, fwd_ingress_packets_udp, fwd_egress_packets_udp, rev_ingress_packets_udp, rev_egress_packets_udp, fwd_ingress_bytes_udp, fwd_egress_bytes_udp, rev_ingress_bytes_udp, rev_egress_bytes_udp, fwd_ingress_packets_icmp, fwd_egress_packets_icmp, rev_ingress_packets_icmp, rev_egress_packets_icmp, fwd_ingress_bytes_icmp, fwd_egress_bytes_icmp, rev_ingress_bytes_icmp, rev_egress_bytes_icmp, fwd_ingress_packets_others, fwd_egress_packets_others,

rev_ingress_packets_others, rev_egress_packets_others, fwd_ingress_bytes_others, fwd_egress_bytes_others, rev_ingress_bytes_others, rev_egress_bytes_others, fwd_ingress_pkt_size_range1, fwd_ingress_pkt_size_range2, fwd_ingress_pkt_size_range3, fwd_ingress_pkt_size_range4, fwd_egress_pkt_size_range1, fwd_egress_pkt_size_range2, fwd_egress_pkt_size_range3, fwd_egress_pkt_size_range4, rev_ingress_pkt_size_range1, rev_ingress_pkt_size_range2, rev_ingress_pkt_size_range3, rev_ingress_pkt_size_range4, rev_egress_pkt_size_range1, rev_egress_pkt_size_range2, rev_egress_pkt_size_range3, rev_egress_pkt_size_range4, prefix_quota_mismatch, port_overloading_port_tcp_inserted, port_overloading_port_udp_inserted, port_overloading_port_free_tcp, port_overloading_port_free_udp

tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *tcp_mss-clamp*

Type: Object

reset-on-error

Description: reset-on-error is a **JSON Block**. Please see below for *tcp_reset-on-error*

Type: Object

tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: 476))

Type: number

Range: 0-1420

Default: 476

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'none': No TCP MSS clamping; 'subtract': Specify the value to subtract from the TCP MSS (default: 20);

Type: string

Supported Values: fixed, none, subtract

Default: subtract

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: 20)

Type: number

Range: 0-1420

Default: 20

mss-value

Description The max value allowed for the TCP MSS (default: not configured)

Type: number

Range: 0-1420

tcp_reset-on-error

Specification	Value
Type	*object*

outbound

Description 'disable': Disable send TCP reset on error;

Type: string

Supported Values: disable

icmp

Specification	Value
Type	*object*

send-on-port-unavailable

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered; 'disable': Disable ICMP port unavailable message (default);

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: disable

send-on-user-quota-exceeded

Description 'host-unreachable': Send ICMP destination host unreachable; 'admin-filtered': Send ICMP admin filtered (default); 'disable': Disable ICMP quota exceeded message;

Type: string

Supported Values: host-unreachable, admin-filtered, disable

Default: admin-filtered

2.26.253 cgnv6 nat64 global stats

Statistics for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/nat64/global/stats
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/global/stats

global attributes

Get Object

GET

/axapi/v3/cgnv6/nat64/global/stats

global attributes

Modify Object

POST

/axapi/v3/cgnv6/nat64/global/stats

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/global/stats

global attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/global/stats

global attributes

global attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

data_sesn_rate_user_quota_exceeded

Description Conn Rate User-Quota Exceeded

Type: number

Format: counter

data_sesn_user_quota_exceeded

Description Data Session User-Quota Exceeded

Type: number

Format: counter

data_session_created

Description Data Session Created

Type: number

Format: counter

data_session_freed

Description Data Session Freed

Type: number

Format: counter

eif_limit_exceeded

Description Endpoint-Independent Filtering Inbound Limit Exceeded

Type: number

Format: counter

endpoint_indep_filter_match

Description Endpoint-Independent Filtering Matched

Type: number

Format: counter

endpoint_indep_map_match

Description Endpoint-Independent Mapping Matched

Type: number

Format: counter

extended_quota_exceeded

Description Extended User-Quota Exceeded

Type: number

Format: counter

extended_quota_matched

Description Extended User-Quota Matched

Type: number

Format: counter

fullcone_failure

Description Full-cone Session Creation Failed

Type: number

Format: counter

fullcone_self_hairpinning_drop

Description Self-Hairpinning Drop

Type: number

Format: counter

fwd_egress_bytes_icmp

Description Forward Egress Bytes ICMP

Type: number

Format: counter

fwd_egress_bytes_others

Description Forward Egress Bytes OTHERS

Type: number

Format: counter

fwd_egress_bytes_tcp

Description Forward Egress Bytes TCP

Type: number

Format: counter

fwd_egress_bytes_udp

Description Forward Egress Bytes UDP

Type: number

Format: counter

fwd_egress_packets_icmp

Description Forward Egress Packets ICMP

Type: number

Format: counter

fwd_egress_packets_others

Description Forward Egress Packets OTHERS

Type: number

Format: counter

fwd_egress_packets_tcp

Description Forward Egress Packets TCP

Type: number

Format: counter

fwd_egress_packets_udp

Description Forward Egress Packets UDP

Type: number

Format: counter

fwd_egress_pkt_size_range1

Description Forward Egress Packet size between 0 and 200

Type: number

Format: counter

fwd_egress_pkt_size_range2

Description Forward Egress Packet size between 201 and 800

Type: number

Format: counter

fwd_egress_pkt_size_range3

Description Forward Egress Packet size between 801 and 1550

Type: number

Format: counter

fwd_egress_pkt_size_range4

Description Forward Egress Packet size between 1551 and 9000

Type: number

Format: counter

fwd_ingress_bytes_icmp

Description Forward Ingress Bytes ICMP

Type: number

Format: counter

fwd_ingress_bytes_others

Description Forward Ingress Bytes OTHERS

Type: number

Format: counter

fwd_ingress_bytes_tcp

Description Forward Ingress Bytes TCP

Type: number

Format: counter

fwd_ingress_bytes_udp

Description Forward Ingress Bytes UDP

Type: number

Format: counter

fwd_ingress_packets_icmp

Description Forward Ingress Packets ICMP

Type: number

Format: counter

fwd_ingress_packets_others

Description Forward Ingress Packets OTHERS

Type: number

Format: counter

fwd_ingress_packets_tcp

Description Forward Ingress Packets TCP

Type: number

Format: counter

fwd_ingress_packets_udp

Description Forward Ingress Packets UDP

Type: number

Format: counter

fwd_ingress_pkt_size_range1

Description Forward Ingress Packet size between 0 and 200

Type: number

Format: counter

fwd_ingress_pkt_size_range2

Description Forward Ingress Packet size between 201 and 800

Type: number

Format: counter

fwd_ingress_pkt_size_range3

Description Forward Ingress Packet size between 801 and 1550

Type: number

Format: counter

fwd_ingress_pkt_size_range4

Description Forward Ingress Packet size between 1551 and 9000

Type: number

Format: counter

ha_nat_pool_batch_type_mismatch

Description HA NAT Pool Batch Type Mismatch

Type: number

Format: counter

ha_nat_pool_unusable

Description HA NAT Pool Unusable

Type: number

Format: counter

hairpin

Description Hairpin Session Created

Type: number

Format: counter

icmp_user_quota_exceeded

Description ICMP User-Quota Exceeded

Type: number

Format: counter

inbound_filtered

Description Endpoint-Dependent Filtering Drop

Type: number

Format: counter

l3

Description Layer 3 Forwarded Packets

Type: number

Format: counter

lid_drop

Description LSN LID Drop

Type: number

Format: counter

lid_pass_through

Description LSN LID Pass-through

Type: number

Format: counter

nat_pool_unusable

Description NAT Pool Unusable

Type: number

Format: counter

nat_port_unavailable_icmp

Description ICMP NAT Port Unavailable

Type: number

Format: counter

nat_port_unavailable_tcp

Description TCP NAT Port Unavailable

Type: number

Format: counter

nat_port_unavailable_udp

Description UDP NAT Port Unavailable

Type: number

Format: counter

new_user_resource_unavailable

Description New User NAT Resource Unavailable

Type: number

Format: counter

no_class_list_match

Description No Class-List Match

Type: number

Format: counter

no_radius_profile_match

Description No RADIUS Profile Match

Type: number

Format: counter

port_overloading_port_free_tcp

Description TCP Port Overloading NAT Port Freed

Type: number

Format: counter

port_overloading_port_free_udp

Description UDP Port Overloading NAT Port Freed

Type: number

Format: counter

port_overloading_port_tcp_inserted

Description Port Overloading NAT Port TCP Inserted

Type: number

Format: counter

port_overloading_port_udp_inserted

Description Port Overloading NAT Port UDP Inserted

Type: number

Format: counter

port_overloading_smp_free_tcp

Description TCP Port Overloading Session Freed

Type: number

Format: counter

port_overloading_smp_free_udp

Description UDP Port Overloading Session Freed

Type: number

Format: counter

port_overloading_smp_inserted_tcp

Description TCP Port Overloading Session Created

Type: number

Format: counter

port_overloading_smp_inserted_udp

Description UDP Port Overloading Session Created

Type: number

Format: counter

prefix_quota_mismatch

Description Prefix Quota NAT IP Mismatch

Type: number

Format: counter

rev_egress_bytes_icmp

Description Reverse Egress Bytes ICMP

Type: number

Format: counter

rev_egress_bytes_others

Description Reverse Egress Bytes OTHERS

Type: number

Format: counter

rev_egress_bytes_tcp

Description Reverse Egress Bytes TCP

Type: number

Format: counter

rev_egress_bytes_udp

Description Reverse Egress Bytes UDP

Type: number

Format: counter

rev_egress_packets_icmp

Description Reverse Egress Packets ICMP

Type: number

Format: counter

rev_egress_packets_others

Description Reverse Egress Packets OTHERS

Type: number

Format: counter

rev_egress_packets_tcp

Description Reverse Egress Packets TCP

Type: number

Format: counter

rev_egress_packets_udp

Description Reverse Egress Packets UDP

Type: number

Format: counter

rev_egress_pkt_size_range1

Description Reverse Egress Packet size between 0 and 200

Type: number

Format: counter

rev_egress_pkt_size_range2

Description Reverse Egress Packet size between 201 and 800

Type: number

Format: counter

rev_egress_pkt_size_range3

Description Reverse Egress Packet size between 801 and 1550

Type: number

Format: counter

rev_egress_pkt_size_range4

Description Reverse Egress Packet size between 1551 and 9000

Type: number

Format: counter

rev_ingress_bytes_icmp

Description Reverse Ingress Bytes ICMP

Type: number

Format: counter

rev_ingress_bytes_others

Description Reverse Ingress Bytes OTHERS

Type: number

Format: counter

rev_ingress_bytes_tcp

Description Reverse Ingress Bytes TCP

Type: number

Format: counter

rev_ingress_bytes_udp

Description Reverse Ingress Bytes UDP

Type: number

Format: counter

rev_ingress_packets_icmp

Description Reverse Ingress Packets ICMP

Type: number

Format: counter

rev_ingress_packets_others

Description Reverse Ingress Packets OTHERS

Type: number

Format: counter

rev_ingress_packets_tcp

Description Reverse Ingress Packets TCP

Type: number

Format: counter

rev_ingress_packets_udp

Description Reverse Ingress Packets UDP

Type: number

Format: counter

rev_ingress_pkt_size_range1

Description Reverse Ingress Packet size between 0 and 200

Type: number

Format: counter

rev_ingress_pkt_size_range2

Description Reverse Ingress Packet size between 201 and 800

Type: number

Format: counter

rev_ingress_pkt_size_range3

Description Reverse Ingress Packet size between 801 and 1550

Type: number

Format: counter

rev_ingress_pkt_size_range4

Description Reverse Ingress Packet size between 1551 and 9000

Type: number

Format: counter

source_matches_prefix

Description Source Address Prefix Match Drop

Type: number

Format: counter

tcp_fullcone_created

Description TCP Full-cone Session Created

Type: number

Format: counter

tcp_fullcone_freed

Description TCP Full-cone Session Freed

Type: number

Format: counter

tcp_user_quota_exceeded

Description TCP User-Quota Exceeded

Type: number

Format: counter

total_icmp_allocated

Description Total ICMP Ports Allocated

Type: number

Format: counter

total_icmp_freed

Description Total ICMP Ports Freed

Type: number

Format: counter

total_tcp_allocated

Description Total TCP Ports Allocated

Type: number

Format: counter

total_tcp_freed

Description Total TCP Ports Freed

Type: number

Format: counter

total_tcp_overloaded

Description TCP Port Overloaded

Type: number

Format: counter

total_udp_allocated

Description Total UDP Ports Allocated

Type: number

Format: counter

total_udp_freed

Description Total UDP Ports Freed

Type: number

Format: counter

total_udp_overloaded

Description UDP Port Overloaded

Type: number

Format: counter

udp_fullcone_created

Description UDP Full-cone Session Created

Type: number

Format: counter

udp_fullcone_freed

Description UDP Full-cone Session Freed

Type: number

Format: counter

udp_user_quota_exceeded

Description UDP User-Quota Exceeded

Type: number

Format: counter

user_quota_created

Description User-Quota Created

Type: number

Format: counter

user_quota_failure

Description User-Quota Creation Failed

Type: number

Format: counter

user_quota_put_in_del_q

Description User-Quota Freed

Type: number

Format: counter

user_quota_unusable

Description User-Quota Marked Unusable

Type: number

Format: counter

user_quota_unusable_drop

Description User-Quota Unusable Drop

Type: number

Format: counter

2.26.254 cgnv6 nat64 hw-accelerate

NAT64 HW accelerate counters

hw-accelerate Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	hw-accelerate
Element URI	/axapi/v3/cgnv6/nat64/hw-accelerate
Element Attributes	hw-accelerate_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/nat64/hw-accelerate/stats
Schema	`hw-accelerate schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/hw-accelerate

hw-accelerate attributes

```
POST /axapi/v3/cgnv6/nat64/hw-accelerate
Payload:
{
    "hw-accelerate": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat64/hw-accelerate

hw-accelerate attributes

```
GET /axapi/v3/cgnv6/nat64/hw-accelerate
Reponse:
{
    "hw-accelerate": {
        "uuid": "c5ed2d8a-0890-11f0-a250-a9cf5715f49c",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/nat64/hw-accelerate"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat64/hw-accelerate

hw-accelerate attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/hw-accelerate

hw-accelerate attributes

```
PUT /axapi/v3/cgnv6/nat64/hw-accelerate
Payload:
{
    "hw-accelerate": {
        "sampling-enable": [
            {
                "counters1": "entry-create"
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/hw-accelerate

hw-accelerate attributes

```
DELETE /axapi/v3/cgnv6/nat64/hw-accelerate
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

hw-accelerate attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'entry-create': HW Entries Created; 'entry-create-failure': HW Entry Creation Failed; 'entry-create-fail-server-down': HW Entry Creation Failed - server down; 'entry-create-fail-max-entry': HW Entry Creation Failed - max entries exceeded; 'entry-free': HW Entries Freed; 'entry-free-opp-entry': HW Entries Freed - opposite tuple entry aged-out; 'entry-free-no-hw-prog': HW Entry Freed - no HW prog; 'entry-free-no-conn': HW Entry Freed - no matched conn; 'entry-free-no-sw-entry': HW Entry Freed - no software entry; 'entry-counter': HW Entries Count; 'entry-age-out': HW Entries Aged Out; 'entry-age-out-idle': HW Entries Aged Out - idle timeout; 'entry-age-out-tcp-fin': HW Entries Aged Out - TCP FIN; 'entry-age-out-tcp-rst': HW Entries Aged Out - TCP RST; 'entry-age-out-invalid-dst': HW Entries Aged Out - invalid dst; 'entry-force-hw-invalidate': HW Entries Force HW Invalidate; 'entry-invalidate-server-down': HW Entries Invalidate due to server down; 'tcam-create': TCAM Flows Created; 'tcam-free': TCAM Flows Freed; 'tcam-counter': TCAM Flow Count;

Type: string

Supported Values: all, entry-create, entry-create-failure, entry-create-fail-server-down, entry-create-fail-max-entry, entry-free, entry-free-opp-entry, entry-free-no-hw-prog, entry-free-no-conn, entry-free-no-sw-entry, entry-counter, entry-age-out, entry-age-out-idle, entry-age-out-tcp-fin, entry-age-out-tcp-rst, entry-age-out-invalid-dst, entry-force-hw-invalidate, entry-invalidate-server-down, tcam-create, tcam-free, tcam-counter

2.26.255 cgnv6 nat64 hw-accelerate stats

Statistics for the object hw-accelerate

hw-accelerate Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	hw-accelerate
Element URI	/axapi/v3/cgnv6/nat64/hw-accelerate/stats
Element Attributes	hw-accelerate_attributes
Partition Visibility	None
Schema	`hw-accelerate schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/hw-accelerate/stats

hw-accelerate attributes

Get Object

GET

/axapi/v3/cgnv6/nat64/hw-accelerate/stats

hw-accelerate attributes

Modify Object

POST

/axapi/v3/cgnv6/nat64/hw-accelerate/stats

hw-accelerate attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/hw-accelerate/stats

hw-accelerate attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/hw-accelerate/stats

hw-accelerate attributes

hw-accelerate attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

entry-age-out

Description HW Entries Aged Out

Type: number

Format: counter

entry-age-out-idle

Description HW Entries Aged Out - idle timeout

Type: number

Format: counter

entry-age-out-invalid-dst

Description HW Entries Aged Out - invalid dst

Type: number

Format: counter

entry-age-out-tcp-fin

Description HW Entries Aged Out - TCP FIN

Type: number

Format: counter

entry-age-out-tcp-rst

Description HW Entries Aged Out - TCP RST

Type: number

Format: counter

entry-counter

Description HW Entries Count

Type: number

Format: counter

entry-create

Description HW Entries Created

Type: number

Format: counter

entry-create-fail-max-entry

Description HW Entry Creation Failed - max entries exceeded

Type: number

Format: counter

entry-create-fail-server-down

Description HW Entry Creation Failed - server down

Type: number

Format: counter

entry-create-failure

Description HW Entry Creation Failed

Type: number

Format: counter

entry-force-hw-invalidate

Description HW Entries Force HW Invalidate

Type: number

Format: counter

entry-free

Description HW Entries Freed

Type: number

Format: counter

entry-free-no-conn

Description HW Entry Freed - no matched conn

Type: number

Format: counter

entry-free-no-hw-prog

Description HW Entry Freed - no HW prog

Type: number

Format: counter

entry-free-no-sw-entry

Description HW Entry Freed - no software entry

Type: number

Format: counter

entry-free-opp-entry

Description HW Entries Freed - opposite tuple entry aged-out

Type: number

Format: counter

entry-invalidate-server-down

Description HW Entries Invalidate due to server down

Type: number

Format: counter

tcam-counter

Description TCAM Flow Count

Type: number

Format: counter

tcam-create

Description TCAM Flows Created

Type: number

Format: counter

tcam-free

Description TCAM Flows Freed

Type: number

Format: counter

2.26.256 cgnv6 nat64 prefix

Configure NAT64 Prefix

prefix Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*prefix-val*
Collection Name	*prefix-list*
Collection URI	/axapi/v3/cgnv6/nat64/prefix
Element Name	prefix
Element URI	/axapi/v3/cgnv6/nat64/prefix/{prefix-val}
Element Attributes	prefix_attributes
Partition Visibility	shared
Schema	`prefix schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/prefix

prefix attributes

```
POST /axapi/v3/cgnv6/nat64/prefix/
Payload:
{
    "prefix": {
        "prefix-val": "2003::1/64",
        "vrid": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/nat64/prefix

prefix attributes

Get Object

GET

/axapi/v3/cgnv6/nat64/prefix/{prefix-val}

prefix attributes

```
GET /axapi/v3/cgnv6/nat64/prefix/2003::1%2f64
Reponse:
{
```

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```
    "prefix": {
        "prefix-val": "2003::1/64",
        "vrid": 1,
        "uuid": "1c4bf2ee-08b2-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat64/prefix/2003%3A%3A1%2F64"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/nat64/prefix

prefix-list

Modify Object

POST

/axapi/v3/cgnv6/nat64/prefix/{prefix-val}

prefix attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/prefix/{prefix-val}

prefix attributes

```
PUT /axapi/v3/cgnv6/nat64/prefix/2003::1%2f64
Payload:
{
    "prefix": {
        "prefix-val": "2003::1/64",
        "vrid": 2
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/nat64/prefix

prefix-list

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/prefix/{prefix-val}

prefix attributes

```
DELETE /axapi/v3/cgnv6/nat64/prefix/2003::1%2f64
Reponse:
```

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```
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

prefix-list

prefix-list is **JSON List** of *prefix attributes*

prefix-list : [

{ *prefix attributes* },

{ *prefix attributes* },

...

]

prefix attributes

class-list

Description Class-list to match for NAT64

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

prefix-val

Description NAT64 Prefix

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

2.26.257 cgnv6 nat64 user-quota-session

LSN Per User Statistics

user-quota-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	user-quota-session
Element URI	/axapi/v3/cgnv6/nat64/user-quota-session
Element Attributes	user-quota-session_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/nat64/user-quota-session/oper
Schema	`user-quota-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/user-quota-session

user-quota-session attributes

Get Object

GET

/axapi/v3/cgnv6/nat64/user-quota-session

user-quota-session attributes

Modify Object

POST

/axapi/v3/cgnv6/nat64/user-quota-session

user-quota-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/user-quota-session

user-quota-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/user-quota-session

user-quota-session attributes

user-quota-session attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.258 cgnv6 nat64 user-quota-session oper

Operational Status for the object user-quota-session

user-quota-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	user-quota-session
Element URI	/axapi/v3/cgnv6/nat64/user-quota-session/oper
Element Attributes	user-quota-session_attributes
Partition Visibility	None
Schema	`user-quota-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat64/user-quota-session/oper

user-quota-session attributes

Get Object

GET

/axapi/v3/cgnv6/nat64/user-quota-session/oper

user-quota-session attributes

Modify Object

POST

/axapi/v3/cgnv6/nat64/user-quota-session/oper

user-quota-session attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat64/user-quota-session/oper

user-quota-session attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat64/user-quota-session/oper

user-quota-session attributes

user-quota-session attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-partitions

Description

Type: boolean

Supported Values: true, false, 1, 0

display-debug

Description

Type: string

Supported Values: true

inside-addr-v6

Description

Type: string

Format: ipv6-address

nat-addr

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

partition-name

Description

Type: string

pool-shared

Description

Type: boolean

Supported Values: true, false, 1, 0

prefix-filter

Description

Type: string

Format: ipv6-address-plen

session-count

Description

Type: number

session-list

Type: List

shared-partition

Description

Type: boolean

Supported Values: true, false, 1, 0

top-by-all-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

top-by-icmp-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

top-by-tcp-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

top-by-udp-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

top-count

Description

Type: number

top-sort-by-cli

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_session-list

Specification	Value
Type	*list*
Block object keys	

flags

Description

Type: string

icmp-quota

Description

Type: number

Range: 1-65535

inside-address

Description

Type: string

Format: ipv6-address

lid-number

Description

Type: number

nat-address

Description

Type: string

Format: ipv4-address

nat-pool-name

Description

Type: string

prefix-len

Description

Type: number

session-count

Description

Type: number

session-count-tcp

Description

Type: number

session-count-udp

Description

Type: number

tcp-quota

Description

Type: number

Range: 1-65535

udp-quota

Description

Type: number

Range: 1-65535

2.26.259 cgnv6 nat exclude-port

Exclude port from CGNv6 NAT pool (default: disabled)

exclude-port Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	exclude-port
Element URI	/axapi/v3/cgnv6/nat/exclude-port
Element Attributes	exclude-port_attributes
Partition Visibility	shared
Schema	`exclude-port schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/nat/exclude-port

exclude-port_attributes

exclude-port attributes

tcp

Description: tcp is a **JSON Block**. Please see below for *tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/exclude-port/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/exclude-port/udp*

udp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

tcp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.260 cgnv6 nat exclude-port tcp

Set behavior for TCP

tcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tcp
Element URI	/axapi/v3/cgnv6/nat/exclude-port/tcp
Element Attributes	tcp_attributes
Partition Visibility	shared
Schema	`tcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/exclude-port/tcp

tcp attributes

```
POST /axapi/v3/cgnv6/nat/exclude-port/tcp
Payload:
{
    "tcp": {
        "port-list": [
            {
                "port": 1024,
                "port-end": 2048
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat/exclude-port/tcp

tcp attributes

```
GET /axapi/v3/cgnv6/nat/exclude-port/tcp
Reponse:
{
    "tcp": {
        "port-list": [
            {
                "port": 1024,
                "port-end": 2048
            }
        ],
        "uuid": "6b528358-08b2-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat/exclude-port/tcp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat/exclude-port/tcp

tcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/exclude-port/tcp

tcp attributes

```
PUT /axapi/v3/cgnv6/nat/exclude-port/tcp
Payload:
{
    "tcp": {
        "port-list": [
            {
                "port": 2048,
                "port-end": 4096
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat/exclude-port/tcp

tcp attributes

```
DELETE /axapi/v3/cgnv6/nat/exclude-port/tcp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

tcp attributes

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.261 cgnv6 nat exclude-port udp

Set behavior for UDP

udp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	udp
Element URI	/axapi/v3/cgnv6/nat/exclude-port/udp
Element Attributes	udp_attributes
Partition Visibility	shared
Schema	`udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/exclude-port/udp

udp attributes

```
POST /axapi/v3/cgnv6/nat/exclude-port/udp
Payload:
{
    "udp": {
        "port-list": [
            {
                "port": 1024,
                "port-end": 2048
            }
        ]
```

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```
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat/exclude-port/udp

udp attributes

```
GET /axapi/v3/cgnv6/nat/exclude-port/udp
Reponse:
{
    "udp": {
        "port-list": [
            {
                "port": 1024,
                "port-end": 2048
            }
        ],
        "uuid": "8825ea60-08b2-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat/exclude-port/udp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat/exclude-port/udp

udp attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/exclude-port/udp

udp attributes

```
PUT /axapi/v3/cgnv6/nat/exclude-port/udp
Payload:
{
    "udp": {
        "port-list": [
            {
                "port": 2048,
                "port-end": 4096
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat/exclude-port/udp

udp attributes

```
DELETE /axapi/v3/cgnv6/nat/exclude-port/udp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

udp attributes

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.262 cgnv6 nat histogram

Configure CGNv6 NAT Histogram

histogram Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	histogram
Element URI	/axapi/v3/cgnv6/nat/histogram
Element Attributes	histogram_attributes
Partition Visibility	shared
Schema	`histogram schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/histogram

histogram attributes

```
POST /axapi/v3/cgnv6/nat/histogram
Payload:
{
    "histogram": {
        "bin-count": 10,
        "bin-skew": 50,
        "data-skew": 5
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat/histogram

histogram attributes

```
GET /axapi/v3/cgnv6/nat/histogram
Reponse:
{
    "histogram": {
        "bin-count": 10,
        "bin-skew": 50,
        "data-skew": 5,
        "uuid": "c5ed1b06-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat/histogram"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat/histogram

histogram attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/histogram

histogram attributes

```
PUT /axapi/v3/cgnv6/nat/histogram
Payload:
{
    "histogram": {
        "bin-count": 10,
        "bin-skew": 50,
        "data-skew": 5
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat/histogram

histogram attributes

```
DELETE /axapi/v3/cgnv6/nat/histogram
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

histogram attributes

bin-count

Description Number of bins in the histogram (default: 50)

Type: number

Range: 10-100

Default: 50

bin-skew

Description Percentage of bins that represent the upper bound (default: 75)

Type: number

Range: 50-80

Default: 75

data-skew

Description Percentage of data that represents the upper bound (default: 25)

Type: number

Range: 5-50

Default: 25

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.263 cgnv6 nat icmp

Configure NAT ICMP settings

icmp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	icmp
Element URI	/axapi/v3/cgnv6/nat/icmp
Element Attributes	icmp_attributes
Partition Visibility	shared
Schema	`icmp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/icmp

icmp attributes

```
POST /axapi/v3/cgnv6/nat/icmp
Payload:
{
    "icmp": {
        "always-source-nat-errors": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat/icmp

icmp attributes

```
GET /axapi/v3/cgnv6/nat/icmp
Reponse:
{
    "icmp": {
        "always-source-nat-errors": 1,
        "respond-to-ping": 0,
        "uuid": "c00d38de-08b2-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat/icmp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat/icmp

icmp attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/icmp

icmp attributes

```
PUT /axapi/v3/cgnv6/nat/icmp
Payload:
{
    "icmp": {
        "always-source-nat-errors": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat/icmp

icmp attributes

```
DELETE /axapi/v3/cgnv6/nat/icmp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
```

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```
        "msg": "Success"
    }
}
```

icmp attributes

always-source-nat-errors

Description Source NAT intermediate routers' IPs for ICMP errors (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

respond-to-ping

Description Respond to ICMP echo requests to NAT pool IPs (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.264 cgnv6 nat icmpv6

ICMPv6 configuration for IPv6 NAT

icmpv6 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	icmpv6
Element URI	/axapi/v3/cgnv6/nat/icmpv6
Element Attributes	icmpv6_attributes
Partition Visibility	shared
Schema	`icmpv6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/icmpv6

icmpv6 attributes

```
POST /axapi/v3/cgnv6/nat/icmpv6
Payload:
{
    "icmpv6": {
        "respond-to-ping": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nat/icmpv6

icmpv6 attributes

```
GET /axapi/v3/cgnv6/nat/icmpv6
Reponse:
{
    "icmpv6": {
        "respond-to-ping": 1,
        "uuid": "db572e9c-08b2-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat/icmpv6"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nat/icmpv6

icmpv6 attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/icmpv6

icmpv6 attributes

```
PUT /axapi/v3/cgnv6/nat/icmpv6
Payload:
{
    "icmpv6": {
        "respond-to-ping": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nat/icmpv6

icmpv6 attributes

```
DELETE /axapi/v3/cgnv6/nat/icmpv6
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

icmpv6 attributes

respond-to-ping

Description Respond to ICMPv6 echo requests to NAT pool IPs (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.265 cgnv6 nat inside

Inside configuration for NAT

inside Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	inside
Element URI	/axapi/v3/cgnv6/nat/inside
Element Attributes	inside_attributes
Partition Visibility	shared
Schema	`inside schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/nat/inside

inside_attributes

inside attributes

source

Description: source is a **JSON Block**. Please see below for *source*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/inside/source*

source

Specification	Value
Type	*object*

static-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat/inside/source/static/{src-address}+{partition}*

statistics

Description: statistics is a **JSON Block**. Please see below for *source_statistics*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/inside/source/statistics*

source_statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

source_static-list

Specification	Value
Type	*list*
Block object keys	

nat-address

Description NAT Address

Type: string

Format: ipv4-address

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

src-address

Description Original Source Address

Type: string

Format: ipv4-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

2.26.266 cgnv6 nat inside source

Source

source Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	source
Element URI	/axapi/v3/cgnv6/nat/inside/source
Element Attributes	source_attributes
Partition Visibility	shared
Schema	`source schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/nat/inside/source

source_attributes

source attributes

static-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat/inside/source/static/{src-address}+{partition}*

statistics

Description: statistics is a **JSON Block**. Please see below for *statistics*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/inside/source/statistics*

statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

static-list

Specification	Value
Type	*list*
Block object keys	

nat-address

Description NAT Address

Type: string

Format: ipv4-address

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

src-address

Description Original Source Address

Type: string

Format: ipv4-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

2.26.267 cgnv6 nat inside source static

Static Address Translations

static Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*src-address, partition*
Collection Name	*static-list*
Collection URI	/axapi/v3/cgnv6/nat/inside/source/static
Element Name	static
Element URI	/axapi/v3/cgnv6/nat/inside/source/static/{src-address}+{partition}
Element Attributes	static_attributes
Partition Visibility	shared
Schema	`static schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/inside/source/static

static attributes

```
POST /axapi/v3/cgnv6/nat/inside/source/static/
Payload:
{
    "static": {
        "nat-address": "3.3.3.3",
        "src-address": "5.5.5.5",
        "vrid": 1,
        "partition": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/nat/inside/source/static

static attributes

Get Object

GET

/axapi/v3/cgnv6/nat/inside/source/static/{src-address}+{partition}

static attributes

```
GET /axapi/v3/cgnv6/nat/inside/source/static/5.5.5.5+a
Reponse:
{
    "static": {
        "src-address": "5.5.5.5",
        "partition": "a",
```

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```
        "nat-address": "3.3.3.3",
        "vrid": 1,
        "uuid": "25efc3b0-08b3-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat/inside/source/static/5.5.5.5+a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/nat/inside/source/static

static-list

Modify Object

POST

/axapi/v3/cgnv6/nat/inside/source/static/{src-address}+{partition}

static attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/inside/source/static/{src-address}+{partition}

static attributes

```
PUT /axapi/v3/cgnv6/nat/inside/source/static/5.5.5.5+a
Payload:
{
    "static": {
        "nat-address": "3.3.3.3",
        "src-address": "5.5.5.5",
        "vrid": 2,
        "partition": "a"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/nat/inside/source/static

static-list

Delete Object

DELETE

/axapi/v3/cgnv6/nat/inside/source/static/{src-address}+{partition}

static attributes

```
DELETE /axapi/v3/cgnv6/nat/inside/source/static/5.5.5.5+a
```

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```
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

static-list

static-list is **JSON List** of *static attributes*

static-list : [

{ *static attributes* },

{ *static attributes* },

...

]

static attributes

nat-address

Description NAT Address

Type: string

Format: ipv4-address

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

src-address

Description Original Source Address

Type: string

Format: ipv4-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

2.26.268 cgnv6 nat inside source statistics

Static Address Translation Statistics

statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	statistics
Element URI	/axapi/v3/cgnv6/nat/inside/source/statistics
Element Attributes	statistics_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/nat/inside/source/statistics/oper
Schema	`statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/inside/source/statistics

statistics attributes

Get Object

GET

/axapi/v3/cgnv6/nat/inside/source/statistics

statistics attributes

Modify Object

POST

/axapi/v3/cgnv6/nat/inside/source/statistics

statistics attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/inside/source/statistics

statistics attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat/inside/source/statistics

statistics attributes

statistics attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.269 cgnv6 nat inside source statistics oper

Operational Status for the object statistics

statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	statistics
Element URI	/axapi/v3/cgnv6/nat/inside/source/statistics/oper
Element Attributes	statistics_attributes
Partition Visibility	None
Schema	`statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/inside/source/statistics/oper

statistics attributes

Get Object

GET

/axapi/v3/cgnv6/nat/inside/source/statistics/oper

statistics attributes

Modify Object

POST

/axapi/v3/cgnv6/nat/inside/source/statistics/oper

statistics attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/inside/source/statistics/oper

statistics attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat/inside/source/statistics/oper

statistics attributes

statistics attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

static-list

Type: List

total

Description

Type: number

oper_static-list

Specification	Value
Type	*list*
Block object keys	

nat-address

Description

Type: string

Format: ipv4-address

port-usage

Description

Type: number

src-address

Description

Type: string

Format: ipv4-address

total-freed

Description

Type: number

total-used

Description

Type: number

2.26.270 cgnv6 nat pool

Configure CGNv6 NAT pool

pool Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*pool-name*
Collection Name	*pool-list*
Collection URI	/axapi/v3/cgnv6/nat/pool
Element Name	pool
Element URI	/axapi/v3/cgnv6/nat/pool/{pool-name}
Element Attributes	pool_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/nat/pool/{pool-name}/stats
Operational Data URI	/axapi/v3/cgnv6/nat/pool/{pool-name}/oper
Schema	`pool schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/pool

pool attributes

```
POST /axapi/v3/cgnv6/nat/pool/
Payload:
{
    "pool": {
        "pool-name": "a",
        "netmask": "/24",
        "start-address": "3.3.3.3",
        "vrid": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/nat/pool

pool attributes

Get Object

GET

/axapi/v3/cgnv6/nat/pool/{pool-name}

pool attributes

```
GET /axapi/v3/cgnv6/nat/pool/a
Reponse:
{
    "pool": {
        "pool-name": "a",
        "start-address": "3.3.3.3",
        "netmask": "/24",
        "vrid": 1,
        "shared": 0,
        "uuid": "65f7cbb0-08b3-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat/pool/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/nat/pool

pool-list

Modify Object

POST

/axapi/v3/cgnv6/nat/pool/{pool-name}

pool attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/pool/{pool-name}

pool attributes

Replace List

PUT

/axapi/v3/cgnv6/nat/pool

pool-list

Delete Object

DELETE

/axapi/v3/cgnv6/nat/pool/{pool-name}

pool attributes

```
DELETE /axapi/v3/cgnv6/nat/pool/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

pool-list

pool-list is **JSON List** of *pool attributes*

pool-list : [

{ *pool attributes* },

{ *pool attributes* },

...

]

pool attributes

all

Description Share with all partitions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

end-address

Description Configure end IP address of NAT pool

Type: string

Format: ipv4-address

exclude-ip

Type: List

group

Description Share with a partition group (Partition Group Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

max-users-per-ip

Description Number of users that can be assigned to a NAT IP

Type: number

Range: 1-64512

netmask

Description Configure mask for pool

Type: string

Format: ipv4-netmask-brief

partition

Description Share with a single partition (Partition Name)

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

per-batch-port-usage-warning-threshold

Description Configure warning log threshold for per batch port usage (default: disabled) (Number of ports)

Type: number

Range: 32-4096

pool-name

Description Specify pool name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-batch-v2-size

Description '64': Allocate 64 ports at a time; '128': Allocate 128 ports at a time; '256': Allocate 256 ports at a time; '512': Allocate 512 ports at a time; '1024': Allocate 1024 ports at a time; '2048': Allocate 2048 ports at a time; '4096': Allocate 4096 ports at a time;

Type: string

Supported Values: 64, 128, 256, 512, 1024, 2048, 4096

service-config-template

Description Service-template name to bind

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

shared

Description Share this pool with other partitions (default: not shared)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

simultaneous-batch-allocation

Description Allocate same TCP and UDP batches at once

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-address

Description Configure start IP address of NAT pool

Type: string

Format: ipv4-address

tcp-time-wait-interval

Description Minutes before TCP NAT ports can be reused

Type: number

Range: 0-10

usable-nat-ports

Description Configure usable NAT ports

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

usable-nat-ports-end

Description End Port of Usable NAT Ports

Type: number

Range: 1024-65535

usable-nat-ports-start

Description Start Port of Usable NAT Ports (needs to be even)

Type: number

Range: 1024-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Configure VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

exclude-ip

Specification	Value
Type	*list*
Block object keys	

exclude-ip-end

Description Address range end

Type: string

Format: ipv4-address

exclude-ip-start

Description Single IP address or IP address range start

Type: string

Format: ipv4-address

2.26.271 cgnv6 nat pool-group

Configure CGNv6 NAT pool group

pool-group Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*pool-group-name*
Collection Name	*pool-group-list*
Collection URI	/axapi/v3/cgnv6/nat/pool-group
Element Name	pool-group
Element URI	/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}
Element Attributes	pool-group_attributes
Partition Visibility	shared
Schema	`pool-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/pool-group

pool-group attributes

```
POST /axapi/v3/cgnv6/nat/pool-group/
Payload:
{
    "pool-group": {
        "pool-group-name": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/nat/pool-group

pool-group attributes

Get Object

GET

/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}

pool-group attributes

```
GET /axapi/v3/cgnv6/nat/pool-group/a
Reponse:
{
    "pool-group": {
        "pool-group-name": "a",
        "uuid": "d4aa5e56-08b3-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat/pool-group/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/nat/pool-group

pool-group-list

Modify Object

POST

/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}

pool-group attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}

pool-group attributes

```
PUT /axapi/v3/cgnv6/nat/pool-group/a
Payload:
{
    "pool-group": {
        "pool-group-name": "a"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/nat/pool-group

pool-group-list

Delete Object

DELETE

/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}

pool-group attributes

```
DELETE /axapi/v3/cgnv6/nat/pool-group/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

pool-group-list

pool-group-list is **JSON List** of *pool-group attributes*

pool-group-list : [

{ *pool-group attributes* },

{ *pool-group attributes* },

...

]

pool-group attributes

member-list

Type: List

Reference Object: */axapi/v3/cgnv6/nat/pool-group/{pool-group-name}/member/{pool-name}*

pool-group-name

Description Specify pool group name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Specify VRRP-A vrid

Type: number

Range: 1-31

member-list

Specification	Value
Type	*list*
Block object keys	

pool-name

Description Specify CGNv6 NAT pool name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.272 cgnv6 nat pool-group member

Add a CGNv6 NAT pool to this pool-group

member Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*pool-name*
Collection Name	*member-list*
Collection URI	/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}/member
Element Name	member
Element URI	/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}/member/{pool-name}
Element Attributes	member_attributes
Partition Visibility	shared
Schema	`member schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}/member

member attributes

Create List

POST

/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}/member

member attributes

Get Object

GET

/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}/member/{pool-name}

member attributes

Get List

GET

/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}/member

member-list

Modify Object

POST

/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}/member/{pool-name}

member attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}/member/{pool-name}

member attributes

Replace List

PUT

/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}/member

member-list

Delete Object

DELETE

/axapi/v3/cgnv6/nat/pool-group/{pool-group-name}/member/{pool-name}

member attributes

member-list

member-list is **JSON List** of *member attributes*

member-list : [

{ *member attributes* },

{ *member attributes* },

...

]

member attributes

pool-name

Description Specify CGNv6 NAT pool name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.273 cgnv6 nat pool oper

Operational Status for the object pool

pool Specification

Parameter	Value
Type	*Collection*
Collection Name	*pool-list*
Collection URI	/axapi/v3/cgnv6/nat/pool/{pool-name}
Element Name	pool
Element URI	/axapi/v3/cgnv6/nat/pool/{pool-name}/oper
Element Attributes	pool_attributes
Partition Visibility	None
Schema	`pool schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/pool/{pool-name}

pool attributes

Create List

POST

/axapi/v3/cgnv6/nat/pool/{pool-name}

pool attributes

Get Object

GET

/axapi/v3/cgnv6/nat/pool/{pool-name}/oper

pool attributes

Get List

GET

/axapi/v3/cgnv6/nat/pool/{pool-name}

pool-list

Modify Object

POST

/axapi/v3/cgnv6/nat/pool/{pool-name}/oper

pool attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/pool/{pool-name}/oper

pool attributes

Replace List

PUT

/axapi/v3/cgnv6/nat/pool/{pool-name}

pool-list

Delete Object

DELETE

/axapi/v3/cgnv6/nat/pool/{pool-name}/oper

pool attributes

pool-list

pool-list is **JSON List** of *pool attributes*

```
pool-list : [
        { pool attributes },
        { pool attributes },
        ...
    ]
```

pool attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

pool-name

Description Specify pool name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Specification	Value
Type	*object*

nat-ip-list

Type: List

oper_nat-ip-list

Specification	Value
Type	*list*
Block object keys	

icmp-freed

Description

Type: number

icmp-hit-full

Description

Type: number

icmp-peak

Description

Type: number

icmp-reserved

Description

Type: number

icmp-total

Description

Type: number

icmp-used

Description

Type: number

ip-address

Description

Type: string

Format: ipv4-address

obsoleted

Description

Type: number

rtsp-used

Description

Type: number

tcp-freed

Description

Type: number

tcp-hit-full

Description

Type: number

tcp-peak

Description

Type: number

tcp-port-overloaded

Description

Type: number

tcp-reserved

Description

Type: number

tcp-total

Description

Type: number

tcp-used

Description

Type: number

udp-freed

Description

Type: number

udp-hit-full

Description

Type: number

udp-peak

Description

Type: number

udp-port-overloaded

Description

Type: number

udp-reserved

Description

Type: number

udp-total

Description

Type: number

udp-used

Description

Type: number

users

Description

Type: number

2.26.274 cgnv6 nat pool stats

Statistics for the object pool

pool Specification

Parameter	Value
Type	*Collection*
Collection Name	*pool-list*
Collection URI	/axapi/v3/cgnv6/nat/pool/{pool-name}
Element Name	pool
Element URI	/axapi/v3/cgnv6/nat/pool/{pool-name}/stats
Element Attributes	pool_attributes
Partition Visibility	None
Schema	`pool schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/pool/{pool-name}

pool attributes

Create List

POST

/axapi/v3/cgnv6/nat/pool/{pool-name}

pool attributes

Get Object

GET

/axapi/v3/cgnv6/nat/pool/{pool-name}/stats

pool attributes

Get List

GET

/axapi/v3/cgnv6/nat/pool/{pool-name}

pool-list

Modify Object

POST

/axapi/v3/cgnv6/nat/pool/{pool-name}/stats

pool attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/pool/{pool-name}/stats

pool attributes

Replace List

PUT

/axapi/v3/cgnv6/nat/pool/{pool-name}

pool-list

Delete Object

DELETE

/axapi/v3/cgnv6/nat/pool/{pool-name}/stats

pool attributes

pool-list

pool-list is **JSON List** of *pool attributes*

pool-list : [

{ *pool attributes* },

{ *pool attributes* },

...

]

pool attributes

pool-name

Description Specify pool name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

icmp

Description ICMP

Type: number

Format: counter

icmp-freed

Description ICMP Freed

Type: number

Format: counter

icmp-hit-full

Description ICMP Hit Full

Type: number

Format: counter

icmp-peak

Description ICMP Peak

Type: number

Format: counter

icmp-rsvd

Description ICMP Reserved

Type: number

Format: counter

icmp-total

Description ICMP Total

Type: number

Format: counter

ip-free

Description IP Free

Type: number

Format: counter

ip-total

Description IP Total

Type: number

Format: counter

ip-used

Description IP Used

Type: number

Format: counter

tcp

Description TCP

Type: number

Format: counter

tcp-freed

Description TCP Freed

Type: number

Format: counter

tcp-hit-full

Description TCP Hit Full

Type: number

Format: counter

tcp-peak

Description TCP Peak

Type: number

Format: counter

tcp-port-overload-create

Description TCP Port Overloading Session Created

Type: number

Format: counter

tcp-port-overload-free

Description TCP Port Overloading Session Freed

Type: number

Format: counter

tcp-port-overloaded

Description TCP Port Overloaded

Type: number

Format: counter

tcp-rsvd

Description TCP Reserved

Type: number

Format: counter

tcp-total

Description TCP total

Type: number

Format: counter

udp

Description UDP

Type: number

Format: counter

udp-freed

Description UDP Freed

Type: number

Format: counter

udp-hit-full

Description UDP Hit Full

Type: number

Format: counter

udp-peak

Description UDP Peak

Type: number

Format: counter

udp-port-overload-create

Description UDP Port Overloading Session Created

Type: number

Format: counter

udp-port-overload-free

Description UDP Port Overloading Session Freed

Type: number

Format: counter

udp-port-overloaded

Description UDP Port Overloaded

Type: number

Format: counter

udp-rsvd

Description UDP Reserved

Type: number

Format: counter

udp-total

Description UDP Total

Type: number

Format: counter

users

Description Users

Type: number

Format: counter

2.26.275 cgnv6 nat range-list

IP Source NAT Static range list

range-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name, partition*
Collection Name	*range-list-list*
Collection URI	/axapi/v3/cgnv6/nat/range-list
Element Name	range-list
Element URI	/axapi/v3/cgnv6/nat/range-list/{name}+{partition}
Element Attributes	range-list_attributes
Partition Visibility	shared
Schema	`range-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/range-list

range-list attributes

```
POST /axapi/v3/cgnv6/nat/range-list/
Payload:
{
    "range-list": {
        "global-netmaskv4": "255.255.0.0",
        "partition": "a",
        "local-netmaskv4": "255.255.0.0",
        "local-start-ipv4-addr": "3.3.3.3",
        "global-start-ipv4-addr": "4.4.4.4",
        "v4-count": 1,
        "name": "a",
        "v4-vrid": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/nat/range-list

range-list attributes

Get Object

GET

/axapi/v3/cgnv6/nat/range-list/{name}+{partition}

range-list attributes

```
GET /axapi/v3/cgnv6/nat/range-list/a+a
Reponse:
{
    "range-list": {
        "name": "a",
        "local-start-ipv4-addr": "3.3.3.3",
        "local-netmaskv4": "255.255.0.0",
        "partition": "a",
        "global-start-ipv4-addr": "4.4.4.4",
        "global-netmaskv4": "255.255.0.0",
        "v4-count": 1,
        "v4-vrid": 1,
        "uuid": "10d9f0ee-08b4-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nat/range-list/a+a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/nat/range-list

range-list-list

Modify Object

POST

/axapi/v3/cgnv6/nat/range-list/{name}+{partition}

range-list attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/range-list/{name}+{partition}

range-list attributes

```
PUT /axapi/v3/cgnv6/nat/range-list/a+a
Payload:
{
    "range-list": {
        "global-netmaskv4": "255.255.0.0",
        "partition": "a",
        "local-netmaskv4": "255.255.0.0",
        "local-start-ipv4-addr": "3.3.3.3",
        "global-start-ipv4-addr": "4.4.4.4",
        "v4-count": 1,
        "name": "a",
        "v4-vrid": 1
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/nat/range-list

range-list-list

Delete Object

DELETE

/axapi/v3/cgnv6/nat/range-list/{name}+{partition}

range-list attributes

```
DELETE /axapi/v3/cgnv6/nat/range-list/a+a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

range-list-list

range-list-list is **JSON List** of *range-list attributes*

range-list-list : [

{ *range-list attributes* },

{ *range-list attributes* },

...

]

range-list attributes

global-netmaskv4

Description Mask for this Address range

Type: string

Format: ipv4-netmask

global-start-ipv4-addr

Description Global Start IPv4 Address of this list

Type: string

Format: ipv4-address

local-netmaskv4

Description Mask for this Address range

Type: string

Format: ipv4-netmask

local-start-ipv4-addr

Description Local Start IPv4 Address of this list

Type: string

Format: ipv4-address

name

Description Name for this Static List

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

partition

Description Inside User Partition (Partition Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-count

Description Number of addresses to be translated in this range

Type: number

Range: 1-200000

v4-vrid

Description VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

2.26.276 cgnv6 nat shared-pool

shared-pool Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	shared-pool
Element URI	/axapi/v3/cgnv6/nat/shared-pool
Element Attributes	shared-pool_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/nat/shared-pool/oper
Schema	`shared-pool schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/shared-pool

shared-pool attributes

Get Object

GET

/axapi/v3/cgnv6/nat/shared-pool

shared-pool attributes

Modify Object

POST

/axapi/v3/cgnv6/nat/shared-pool

shared-pool attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/shared-pool

shared-pool attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat/shared-pool

shared-pool attributes

shared-pool attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.277 cgnv6 nat shared-pool-group

shared-pool-group Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	shared-pool-group
Element URI	/axapi/v3/cgnv6/nat/shared-pool-group
Element Attributes	shared-pool-group_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/nat/shared-pool-group/oper
Schema	`shared-pool-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/shared-pool-group

shared-pool-group attributes

```
POST /axapi/v3/cgnv6/nat/shared-pool-group
Payload:
{
    "shared-pool-group": {}
}
```

Get Object

GET

/axapi/v3/cgnv6/nat/shared-pool-group

shared-pool-group attributes

Modify Object

POST

/axapi/v3/cgnv6/nat/shared-pool-group

shared-pool-group attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/shared-pool-group

shared-pool-group attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat/shared-pool-group

shared-pool-group attributes

shared-pool-group attributes

members

Description: members is a **JSON Block**. Please see below for *members*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/shared-pool-group/members*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

members

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.278 cgnv6 nat shared-pool-group members

members Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	members
Element URI	/axapi/v3/cgnv6/nat/shared-pool-group/members
Element Attributes	members_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/nat/shared-pool-group/members/oper
Schema	`members schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/shared-pool-group/members

members attributes

Get Object

GET

/axapi/v3/cgnv6/nat/shared-pool-group/members

members attributes

Modify Object

POST

/axapi/v3/cgnv6/nat/shared-pool-group/members

members attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/shared-pool-group/members

members attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat/shared-pool-group/members

members attributes

members attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.279 cgnv6 nat shared-pool-group members oper

Operational Status for the object members

members Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	members
Element URI	/axapi/v3/cgnv6/nat/shared-pool-group/members/oper
Element Attributes	members_attributes
Partition Visibility	None
Schema	`members schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/shared-pool-group/members/oper

members attributes

Get Object

GET

/axapi/v3/cgnv6/nat/shared-pool-group/members/oper

members attributes

Modify Object

POST

/axapi/v3/cgnv6/nat/shared-pool-group/members/oper

members attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/shared-pool-group/members/oper

members attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat/shared-pool-group/members/oper

members attributes

members attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

member-list

Type: List

pool-group-name

Description

Type: string

oper_member-list

Specification	Value
Type	*list*
Block object keys	

pool-name

Description

Type: string

2.26.280 cgnv6 nat shared-pool-group oper

Operational Status for the object shared-pool-group

shared-pool-group Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	shared-pool-group
Element URI	/axapi/v3/cgnv6/nat/shared-pool-group/oper
Element Attributes	shared-pool-group_attributes
Partition Visibility	None
Schema	`shared-pool-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/shared-pool-group/oper

shared-pool-group attributes

Get Object

GET

/axapi/v3/cgnv6/nat/shared-pool-group/oper

shared-pool-group attributes

Modify Object

POST

/axapi/v3/cgnv6/nat/shared-pool-group/oper

shared-pool-group attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/shared-pool-group/oper

shared-pool-group attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat/shared-pool-group/oper

shared-pool-group attributes

shared-pool-group attributes

members

Description: members is a **JSON Block**. Please see below for *members*

Type: Object

Reference Object: */axapi/v3/cgnv6/nat/shared-pool-group/members*

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

shared-pool-group-list

Type: List

oper_shared-pool-group-list

Specification	Value
Type	*list*
Block object keys	

pool-group-name

Description

Type: string

vird

Description

Type: number

members

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *members_oper*

Type: Object

members_oper

Specification	Value
Type	*object*

member-list

Type: List

pool-group-name

Description

Type: string

members_oper_member-list

Specification	Value
Type	*list*
Block object keys	

pool-name

Description

Type: string

2.26.281 cgnv6 nat shared-pool oper

Operational Status for the object shared-pool

shared-pool Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	shared-pool
Element URI	/axapi/v3/cgnv6/nat/shared-pool/oper
Element Attributes	shared-pool_attributes
Partition Visibility	None
Schema	`shared-pool schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nat/shared-pool/oper

shared-pool attributes

Get Object

GET

/axapi/v3/cgnv6/nat/shared-pool/oper

shared-pool attributes

Modify Object

POST

/axapi/v3/cgnv6/nat/shared-pool/oper

shared-pool attributes

Replace Object

PUT

/axapi/v3/cgnv6/nat/shared-pool/oper

shared-pool attributes

Delete Object

DELETE

/axapi/v3/cgnv6/nat/shared-pool/oper

shared-pool attributes

shared-pool attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

shared-pool-list

Type: List

oper_shared-pool-list

Specification	Value
Type	*list*
Block object keys	

end-address

Description

Type: string

Format: ipv4-address

netmask

Description

Type: string

Format: ipv4-netmask-brief

pool-name

Description

Type: string

start-address

Description

Type: string

Format: ipv4-address

vird

Description

Type: number

2.26.282 cgnv6 nptv6

IPv6-to-IPv6 network prefix translation

nptv6 Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	nptv6
Element URI	/axapi/v3/cgnv6/nptv6
Element Attributes	nptv6_attributes
Partition Visibility	shared
Schema	`nptv6 schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/nptv6

nptv6_attributes

nptv6 attributes

common

Description: common is a **JSON Block**. Please see below for *common*

Type: Object

Reference Object: */axapi/v3/cgnv6/nptv6/common*

domain-list

Type: List

Reference Object: */axapi/v3/cgnv6/nptv6/domain/{name}*

domain-list

Specification	Value
Type	*list*
Block object keys	

inside-prefix

Description Configure inside network prefix (Inside IPv6 network prefix)

Type: string

Format: ipv6-address-plen

name

Description Name of NPTv6 domain

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

outside-prefix

Description Configure outside network prefix (Outside IPv6 network prefix)

Type: string

Format: ipv6-address-plen

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'outbound-packets': Outbound Packets; 'inbound-packets': Inbound Packets; 'hairpin-packets': Hairpin Packets; 'address-not-valid-for-translation': Address Not Valid For Translation; 'inbound-packets-no-map': Inbound Packets No Map; 'packets-dest-unreachable': Packets Destination Unreachable;

Type: string

Supported Values: all, outbound-packets, inbound-packets, hairpin-packets, address-not-valid-for-translation, inbound-packets-no-map, packets-dest-unreachable

common

Specification	Value
Type	*object*

send-icmpv6-on-error

Description 'disable': Disable to send ICMPv6 when error discovered;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.283 cgnv6 nptv6 common

NPTv6 common settings

common Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	common
Element URI	/axapi/v3/cgnv6/nptv6/common
Element Attributes	common_attributes
Partition Visibility	shared
Schema	`common schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nptv6/common

common attributes

```
POST /axapi/v3/cgnv6/nptv6/common
Payload:
{
    "common": {
        "send-icmpv6-on-error": "disable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/nptv6/common

common attributes

```
GET /axapi/v3/cgnv6/nptv6/common
Reponse:
{
    "common": {
        "send-icmpv6-on-error": "disable",
        "uuid": "c5ed5148-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/nptv6/common"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/nptv6/common

common attributes

Replace Object

PUT

/axapi/v3/cgnv6/nptv6/common

common attributes

```
PUT /axapi/v3/cgnv6/nptv6/common
Payload:
{
    "common": {
        "send-icmpv6-on-error": "disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/nptv6/common

common attributes

```
DELETE /axapi/v3/cgnv6/nptv6/common
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

common attributes

send-icmpv6-on-error

Description 'disable': Disable to send ICMPv6 when error discovered;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.284 cgnv6 nptv6 domain

Configure NPTv6 translation domain

domain Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*domain-list*
Collection URI	/axapi/v3/cgnv6/nptv6/domain
Element Name	domain
Element URI	/axapi/v3/cgnv6/nptv6/domain/{name}
Element Attributes	domain_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/nptv6/domain/{name}/stats
Schema	`domain schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nptv6/domain

domain attributes

```
POST /axapi/v3/cgnv6/nptv6/domain/
Payload:
{
    "domain": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/nptv6/domain

domain attributes

Get Object

GET

/axapi/v3/cgnv6/nptv6/domain/{name}

domain attributes

```
GET /axapi/v3/cgnv6/nptv6/domain/a
Reponse:
```

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```
{
    "domain": {
        "name": "a",
        "uuid": "a49425e8-08b4-11f0-951d-a9cf5715f49c",
        "user-tag": "a",
        "a10-url": "/axapi/v3/cgnv6/nptv6/domain/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/nptv6/domain

domain-list

Modify Object

POST

/axapi/v3/cgnv6/nptv6/domain/{name}

domain attributes

Replace Object

PUT

/axapi/v3/cgnv6/nptv6/domain/{name}

domain attributes

```
PUT /axapi/v3/cgnv6/nptv6/domain/a
Payload:
{
    "domain": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/nptv6/domain

domain-list

Delete Object

DELETE

/axapi/v3/cgnv6/nptv6/domain/{name}

domain attributes

```
DELETE /axapi/v3/cgnv6/nptv6/domain/a
```

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(continued from previous page)

```
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

domain-list

domain-list is **JSON List** of *domain attributes*

domain-list : [

{ *domain attributes* },

{ *domain attributes* },

...

]

domain attributes

inside-prefix

Description Configure inside network prefix (Inside IPv6 network prefix)

Type: string

Format: ipv6-address-plen

name

Description Name of NPTv6 domain

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

outside-prefix

Description Configure outside network prefix (Outside IPv6 network prefix)

Type: string

Format: ipv6-address-plen

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'outbound-packets': Outbound Packets; 'inbound-packets': Inbound Packets; 'hairpin-packets': Hairpin Packets; 'address-not-valid-for-translation': Address Not Valid For Translation; 'inbound-packets-no-map': Inbound Packets No Map; 'packets-dest-unreachable': Packets Destination Unreachable;

Type: string

Supported Values: all, outbound-packets, inbound-packets, hairpin-packets, address-not-valid-for-translation, inbound-packets-no-map, packets-dest-unreachable

2.26.285 cgnv6 nptv6 domain stats

Statistics for the object domain

domain Specification

Parameter	Value
Type	*Collection*
Collection Name	*domain-list*
Collection URI	/axapi/v3/cgnv6/nptv6/domain/{name}
Element Name	domain
Element URI	/axapi/v3/cgnv6/nptv6/domain/{name}/stats
Element Attributes	domain_attributes
Partition Visibility	None
Schema	`domain schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/nptv6/domain/{name}

domain attributes

Create List

POST

/axapi/v3/cgnv6/nptv6/domain/{name}

domain attributes

Get Object

GET

/axapi/v3/cgnv6/nptv6/domain/{name}/stats

domain attributes

Get List

GET

/axapi/v3/cgnv6/nptv6/domain/{name}

domain-list

Modify Object

POST

/axapi/v3/cgnv6/nptv6/domain/{name}/stats

domain attributes

Replace Object

PUT

/axapi/v3/cgnv6/nptv6/domain/{name}/stats

domain attributes

Replace List

PUT

/axapi/v3/cgnv6/nptv6/domain/{name}

domain-list

Delete Object

DELETE

/axapi/v3/cgnv6/nptv6/domain/{name}/stats

domain attributes

domain-list

domain-list is **JSON List** of *domain attributes*

domain-list : [

{ *domain attributes* },

{ *domain attributes* },

...

]

domain attributes

name

Description Name of NPTv6 domain

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

address-not-valid-for-translation

Description Address Not Valid For Translation

Type: number

Format: counter

hairpin-packets

Description Hairpin Packets

Type: number

Format: counter

inbound-packets

Description Inbound Packets

Type: number

Format: counter

inbound-packets-no-map

Description Inbound Packets No Map

Type: number

Format: counter

outbound-packets

Description Outbound Packets

Type: number

Format: counter

packets-dest-unreachable

Description Packets Destination Unreachable

Type: number

Format: counter

2.26.286 cgnv6 one-to-one

Set one-to-one NAT parameters

one-to-one Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	one-to-one
Element URI	/axapi/v3/cgnv6/one-to-one
Element Attributes	one-to-one_attributes
Partition Visibility	shared
Schema	`one-to-one schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/one-to-one

one-to-one_attributes

one-to-one attributes

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/cgnv6/one-to-one/global*

mapping

Description: mapping is a **JSON Block**. Please see below for *mapping*

Type: Object

Reference Object: */axapi/v3/cgnv6/one-to-one/mapping*

pool-group-list

Type: List

Reference Object: */axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}*

pool-list

Type: List

Reference Object: */axapi/v3/cgnv6/one-to-one/pool/{pool-name}*

shared-pool

Description: shared-pool is a **JSON Block**. Please see below for *shared-pool*

Type: Object

Reference Object: */axapi/v3/cgnv6/one-to-one/shared-pool*

shared-pool-group

Description: shared-pool-group is a **JSON Block**. Please see below for *shared-pool-group*

Type: Object

Reference Object: */axapi/v3/cgnv6/one-to-one/shared-pool-group*

shared-pool

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pool-group-list

Specification	Value
Type	*list*
Block object keys	

member-list

Type: List

Reference Object: */axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}/member/{pool-name}*

pool-group-name

Description Specify pool group name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Specify VRRP-A vrid

Type: number

Range: 1-31

pool-group-list_member-list

Specification	Value
Type	*list*
Block object keys	

pool-name

Description Specify CGNv6 one-to-one pool name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global

Specification	Value
Type	*object*

mapping-timeout

Description Configure timeout for the one-to-one NAT mapping (Timeout in minutes (default: 10 minutes))

Type: number

Range: 0-180

Default: 10

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total-map-allocated': Total One-to-One Address Mapping Allocated; 'total-map-freed': Total One-to-One Address Mapping Freed; 'map-alloc-failure': One-to-One Address Mapping Allocation Failure; 'map-dbl-free': Address Mapping Double Free; 'alloc-map-race': Mapping Exists When Allocating Address Mapping; 'map-not-found': Mapping to be Released Not Found; 'ha-map-mismatch': HA Standby Mapping Mismatch; 'ha-select-addr-failure': HA Standby Allocate Address Failure; 'ha-alloc-map-conflicts': HA Standby Allocate Mapping Conflicts;

Type: string

Supported Values: all, total-map-allocated, total-map-freed, map-alloc-failure, map-dbl-free, alloc-map-race, map-not-found, ha-map-mismatch, ha-select-addr-failure, ha-alloc-map-conflicts

mapping

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

shared-pool-group

Specification	Value
Type	*object*

members

Description: members is a **JSON Block**. Please see below for *shared-pool-group_members*

Type: Object

Reference Object: */axapi/v3/cgnv6/one-to-one/shared-pool-group/members*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

shared-pool-group_members

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pool-list

Specification	Value
Type	*list*
Block object keys	

end-address

Description Configure end IP address of NAT pool

Type: string

Format: ipv4-address

group

Description Share with a partition group (Partition Group Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

netmask

Description Configure mask for pool

Type: string

Format: ipv4-netmask-brief

partition

Description Share with a single partition (Partition Name)

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

pool-name

Description Specify pool name or pool group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description Share this pool with other partitions (default: not shared)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-address

Description Configure start IP address of NAT pool

Type: string

Format: ipv4-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Configure VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

2.26.287 cgnv6 one-to-one global

Set one-to-one NAT config parameters

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/one-to-one/global
Element Attributes	global_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/one-to-one/global/stats
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/global

global attributes

```
POST /axapi/v3/cgnv6/one-to-one/global
Payload:
{
    "global": {
        "mapping-timeout": 0
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/one-to-one/global

global attributes

```
GET /axapi/v3/cgnv6/one-to-one/global
Reponse:
{
    "global": {
        "mapping-timeout": 0,
        "uuid": "c5ed238a-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/one-to-one/global"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/global

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/global

global attributes

```
PUT /axapi/v3/cgnv6/one-to-one/global
Payload:
{
    "global": {
        "mapping-timeout": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/global

global attributes

```
DELETE /axapi/v3/cgnv6/one-to-one/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

global attributes

mapping-timeout

Description Configure timeout for the one-to-one NAT mapping (Timeout in minutes (default: 10 minutes))

Type: number

Range: 0-180

Default: 10

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total-map-allocated': Total One-to-One Address Mapping Allocated; 'total-map-freed': Total One-to-One Address Mapping Freed; 'map-alloc-failure': One-to-One Address Mapping Allocation Failure; 'map-dbl-free': Address Mapping Double Free; 'alloc-map-race': Mapping Exists When Allocating Address Mapping; 'map-not-found': Mapping to be Released Not Found; 'ha-map-mismatch': HA Standby Mapping Mismatch; 'ha-select-addr-failure': HA Standby Allocate Address Failure; 'ha-alloc-map-conflicts': HA Standby Allocate Mapping Conflicts;

Type: string

Supported Values: all, total-map-allocated, total-map-freed, map-alloc-failure, map-dbl-free, alloc-map-race, map-not-found, ha-map-mismatch, ha-select-addr-failure, ha-alloc-map-conflicts

2.26.288 cgnv6 one-to-one global stats

Statistics for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/one-to-one/global/stats
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/global/stats

global attributes

Get Object

GET

/axapi/v3/cgnv6/one-to-one/global/stats

global attributes

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/global/stats

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/global/stats

global attributes

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/global/stats

global attributes

global attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

map-alloc-failure

Description One-to-One Address Mapping Allocation Failure

Type: number

Format: counter

total-map-allocated

Description Total One-to-One Address Mapping Allocated

Type: number

Format: counter

total-map-freed

Description Total One-to-One Address Mapping Freed

Type: number

Format: counter

2.26.289 cgnv6 one-to-one mapping

One to One Mapping

mapping Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	mapping
Element URI	/axapi/v3/cgnv6/one-to-one/mapping
Element Attributes	mapping_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/one-to-one/mapping/oper
Schema	`mapping schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/mapping

mapping attributes

Get Object

GET

/axapi/v3/cgnv6/one-to-one/mapping

mapping attributes

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/mapping

mapping attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/mapping

mapping attributes

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/mapping

mapping attributes

mapping attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.290 cgnv6 one-to-one mapping oper

Operational Status for the object mapping

mapping Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	mapping
Element URI	/axapi/v3/cgnv6/one-to-one/mapping/oper
Element Attributes	mapping_attributes
Partition Visibility	None
Schema	`mapping schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/mapping/oper

mapping attributes

Get Object

GET

/axapi/v3/cgnv6/one-to-one/mapping/oper

mapping attributes

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/mapping/oper

mapping attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/mapping/oper

mapping attributes

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/mapping/oper

mapping attributes

mapping attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-partitions

Description

Type: boolean

Supported Values: true, false, 1, 0

inside-addr-end

Description

Type: string

Format: ipv4-address

inside-addr-start

Description

Type: string

Format: ipv4-address

inside-address-ipv4

Description

Type: string

Format: ipv4-address

inside-address-ipv6

Description

Type: string

Format: ipv6-address

nat-addr-end

Description

Type: string

Format: ipv4-address

nat-addr-start

Description

Type: string

Format: ipv4-address

nat-addr-val

Description

Type: string

Format: ipv4-address

partition-name

Description

Type: string

pool-name

Description

Type: string

session-mapping-list

Type: List

shared-partition

Description

Type: boolean

Supported Values: true, false, 1, 0

shared-pool-name

Description

Type: string

total

Description

Type: number

oper_session-mapping-list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: string

inside-ipv4-address

Description

Type: string

inside-ipv6-address

Description

Type: string

nat-address

Description

Type: string

Format: ipv4-address

pool

Description

Type: string

sessions

Description

Type: number

2.26.291 cgnv6 one-to-one pool

Configure CGNv6 one-to-one pool

pool Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*pool-name*
Collection Name	*pool-list*
Collection URI	/axapi/v3/cgnv6/one-to-one/pool
Element Name	pool
Element URI	/axapi/v3/cgnv6/one-to-one/pool/{pool-name}
Element Attributes	pool_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/one-to-one/pool/{pool-name}/stats
Schema	`pool schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/pool

pool attributes

```
POST /axapi/v3/cgnv6/one-to-one/pool/
Payload:
{
    "pool": {
        "netmask": "/24",
        "start-address": "3.3.3.3",
        "pool-name": "a",
        "vrid": 1,
        "end-address": "3.3.3.3"
```

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```
    }
}
```

Create List

POST

/axapi/v3/cgnv6/one-to-one/pool

pool attributes

Get Object

GET

/axapi/v3/cgnv6/one-to-one/pool/{pool-name}

pool attributes

```
GET /axapi/v3/cgnv6/one-to-one/pool/a
Reponse:
{
    "pool": {
        "pool-name": "a",
        "start-address": "3.3.3.3",
        "end-address": "3.3.3.3",
        "netmask": "/24",
        "vrid": 1,
        "shared": 0,
        "uuid": "2e3bd598-08b5-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/one-to-one/pool/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/one-to-one/pool

pool-list

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/pool/{pool-name}

pool attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/pool/{pool-name}

pool attributes

```
PUT /axapi/v3/cgnv6/one-to-one/pool/a
```

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```
Payload:
{
    "pool": {
        "netmask": "/24",
        "start-address": "3.3.3.3",
        "pool-name": "a",
        "vrid": 1,
        "end-address": "3.3.3.3"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/one-to-one/pool

pool-list

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/pool/{pool-name}

pool attributes

```
DELETE /axapi/v3/cgnv6/one-to-one/pool/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

pool-list

pool-list is **JSON List** of *pool attributes*

pool-list : [

{ *pool attributes* },

{ *pool attributes* },

...

]

pool attributes

end-address

Description Configure end IP address of NAT pool

Type: string

Format: ipv4-address

group

Description Share with a partition group (Partition Group Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

netmask

Description Configure mask for pool

Type: string

Format: ipv4-netmask-brief

partition

Description Share with a single partition (Partition Name)

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

pool-name

Description Specify pool name or pool group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

shared

Description Share this pool with other partitions (default: not shared)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-address

Description Configure start IP address of NAT pool

Type: string

Format: ipv4-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Configure VRRP-A vrid (Specify ha VRRP-A vrid)

Type: number

Range: 1-31

2.26.292 cgnv6 one-to-one pool-group

Configure CGNv6 one-to-one pool group

pool-group Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*pool-group-name*
Collection Name	*pool-group-list*
Collection URI	/axapi/v3/cgnv6/one-to-one/pool-group
Element Name	pool-group
Element URI	/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}
Element Attributes	pool-group_attributes
Partition Visibility	shared
Schema	`pool-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/pool-group

pool-group attributes

```
POST /axapi/v3/cgnv6/one-to-one/pool-group/
Payload:
{
    "pool-group": {
        "pool-group-name": "b"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/one-to-one/pool-group

pool-group attributes

Get Object

GET

/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}

pool-group attributes

```
GET /axapi/v3/cgnv6/one-to-one/pool-group/b
Reponse:
{
    "pool-group": {
        "pool-group-name": "b",
        "uuid": "69cd274c-08b5-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/one-to-one/pool-group/b"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/one-to-one/pool-group

pool-group-list

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}

pool-group attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}

pool-group attributes

```
PUT /axapi/v3/cgnv6/one-to-one/pool-group/b
Payload:
{
    "pool-group": {
        "pool-group-name": "b"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/one-to-one/pool-group

pool-group-list

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}

pool-group attributes

```
DELETE /axapi/v3/cgnv6/one-to-one/pool-group/b
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

pool-group-list

pool-group-list is **JSON List** of *pool-group attributes*

pool-group-list : [

{ *pool-group attributes* },

{ *pool-group attributes* },

...

]

pool-group attributes

member-list

Type: List

Reference Object: */axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}/member/{pool-name}*

pool-group-name

Description Specify pool group name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Specify VRRP-A vrid

Type: number

Range: 1-31

member-list

Specification	Value
Type	*list*
Block object keys	

pool-name

Description Specify CGNv6 one-to-one pool name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.293 cgnv6 one-to-one pool-group member

Add a CGNv6 one-to-one pool to this pool-group

member Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*pool-name*
Collection Name	*member-list*
Collection URI	/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}/member
Element Name	member
Element URI	/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}/member/{pool-name}
Element Attributes	member_attributes
Partition Visibility	shared
Schema	`member schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}/member

member attributes

Create List

POST

/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}/member

member attributes

Get Object

GET

/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}/member/{pool-name}

member attributes

Get List

GET

/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}/member

member-list

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}/member/{pool-name}

member attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}/member/{pool-name}

member attributes

Replace List

PUT

/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}/member

member-list

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/pool-group/{pool-group-name}/member/{pool-name}

member attributes

member-list

member-list is **JSON List** of *member attributes*

member-list : [

{ *member attributes* },

{ *member attributes* },

...

]

member attributes

pool-name

Description Specify CGNv6 one-to-one pool name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.294 cgnv6 one-to-one pool stats

Statistics for the object pool

pool Specification

Parameter	Value
Type	*Collection*
Collection Name	*pool-list*
Collection URI	/axapi/v3/cgnv6/one-to-one/pool/{pool-name}
Element Name	pool
Element URI	/axapi/v3/cgnv6/one-to-one/pool/{pool-name}/stats
Element Attributes	pool_attributes
Partition Visibility	None
Schema	`pool schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/pool/{pool-name}

pool attributes

Create List

POST

/axapi/v3/cgnv6/one-to-one/pool/{pool-name}

pool attributes

Get Object

GET

/axapi/v3/cgnv6/one-to-one/pool/{pool-name}/stats

pool attributes

Get List

GET

/axapi/v3/cgnv6/one-to-one/pool/{pool-name}

pool-list

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/pool/{pool-name}/stats

pool attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/pool/{pool-name}/stats

pool attributes

Replace List

PUT

/axapi/v3/cgnv6/one-to-one/pool/{pool-name}

pool-list

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/pool/{pool-name}/stats

pool attributes

pool-list

pool-list is **JSON List** of *pool attributes*

```
pool-list : [
        { pool attributes },
        { pool attributes },
        ...
    ]
```

pool attributes

pool-name

Description Specify pool name or pool group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

free-address

Description Free Address

Type: number

Format: counter

total-address

Description Total Address

Type: number

Format: counter

used-address

Description Used Address

Type: number

Format: counter

2.26.295 cgnv6 one-to-one shared-pool

shared-pool Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	shared-pool
Element URI	/axapi/v3/cgnv6/one-to-one/shared-pool
Element Attributes	shared-pool_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/one-to-one/shared-pool/oper
Schema	`shared-pool schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/shared-pool

shared-pool attributes

Get Object

GET

/axapi/v3/cgnv6/one-to-one/shared-pool

shared-pool attributes

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/shared-pool

shared-pool attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/shared-pool

shared-pool attributes

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/shared-pool

shared-pool attributes

shared-pool attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.296 cgnv6 one-to-one shared-pool-group

shared-pool-group Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	shared-pool-group
Element URI	/axapi/v3/cgnv6/one-to-one/shared-pool-group
Element Attributes	shared-pool-group_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/one-to-one/shared-pool-group/oper
Schema	`shared-pool-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/shared-pool-group

shared-pool-group attributes

```
POST /axapi/v3/cgnv6/one-to-one/shared-pool-group
Payload:
{
    "shared-pool-group": {}
}
```

Get Object

GET

/axapi/v3/cgnv6/one-to-one/shared-pool-group

shared-pool-group attributes

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/shared-pool-group

shared-pool-group attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/shared-pool-group

shared-pool-group attributes

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/shared-pool-group

shared-pool-group attributes

shared-pool-group attributes

members

Description: members is a **JSON Block**. Please see below for *members*

Type: Object

Reference Object: */axapi/v3/cgnv6/one-to-one/shared-pool-group/members*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

members

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.297 cgnv6 one-to-one shared-pool-group members

members Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	members
Element URI	/axapi/v3/cgnv6/one-to-one/shared-pool-group/members
Element Attributes	members_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/one-to-one/shared-pool-group/members/oper
Schema	`members schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/shared-pool-group/members

members attributes

Get Object

GET

/axapi/v3/cgnv6/one-to-one/shared-pool-group/members

members attributes

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/shared-pool-group/members

members attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/shared-pool-group/members

members attributes

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/shared-pool-group/members

members attributes

members attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.298 cgnv6 one-to-one shared-pool-group members oper

Operational Status for the object members

members Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	members
Element URI	/axapi/v3/cgnv6/one-to-one/shared-pool-group/members/oper
Element Attributes	members_attributes
Partition Visibility	None
Schema	`members schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/shared-pool-group/members/oper

members attributes

Get Object

GET

/axapi/v3/cgnv6/one-to-one/shared-pool-group/members/oper

members attributes

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/shared-pool-group/members/oper

members attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/shared-pool-group/members/oper

members attributes

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/shared-pool-group/members/oper

members attributes

members attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

member-list

Type: List

pool-group-name

Description

Type: string

oper_member-list

Specification	Value
Type	*list*
Block object keys	

pool-name

Description

Type: string

2.26.299 cgnv6 one-to-one shared-pool-group oper

Operational Status for the object shared-pool-group

shared-pool-group Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	shared-pool-group
Element URI	/axapi/v3/cgnv6/one-to-one/shared-pool-group/oper
Element Attributes	shared-pool-group_attributes
Partition Visibility	None
Schema	`shared-pool-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/shared-pool-group/oper

shared-pool-group attributes

Get Object

GET

/axapi/v3/cgnv6/one-to-one/shared-pool-group/oper

shared-pool-group attributes

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/shared-pool-group/oper

shared-pool-group attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/shared-pool-group/oper

shared-pool-group attributes

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/shared-pool-group/oper

shared-pool-group attributes

shared-pool-group attributes

members

Description: members is a **JSON Block**. Please see below for *members*

Type: Object

Reference Object: */axapi/v3/cgnv6/one-to-one/shared-pool-group/members*

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

shared-pool-group-list

Type: List

oper_shared-pool-group-list

Specification	Value
Type	*list*
Block object keys	

pool-group-name

Description

Type: string

vird

Description

Type: number

members

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *members_oper*

Type: Object

members_oper

Specification	Value
Type	*object*

member-list

Type: List

pool-group-name

Description

Type: string

members_oper_member-list

Specification	Value
Type	*list*
Block object keys	

pool-name

Description

Type: string

2.26.300 cgnv6 one-to-one shared-pool oper

Operational Status for the object shared-pool

shared-pool Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	shared-pool
Element URI	/axapi/v3/cgnv6/one-to-one/shared-pool/oper
Element Attributes	shared-pool_attributes
Partition Visibility	None
Schema	`shared-pool schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/one-to-one/shared-pool/oper

shared-pool attributes

Get Object

GET

/axapi/v3/cgnv6/one-to-one/shared-pool/oper

shared-pool attributes

Modify Object

POST

/axapi/v3/cgnv6/one-to-one/shared-pool/oper

shared-pool attributes

Replace Object

PUT

/axapi/v3/cgnv6/one-to-one/shared-pool/oper

shared-pool attributes

Delete Object

DELETE

/axapi/v3/cgnv6/one-to-one/shared-pool/oper

shared-pool attributes

shared-pool attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

shared-pool-list

Type: List

oper_shared-pool-list

Specification	Value
Type	*list*
Block object keys	

end-address

Description

Type: string

Format: ipv4-address

netmask

Description

Type: string

Format: ipv4-netmask-brief

pool-name

Description

Type: string

start-address

Description

Type: string

Format: ipv4-address

vird

Description

Type: number

2.26.301 cgnv6 pcp

Set Port Control Protocol parameters

pcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pcp
Element URI	/axapi/v3/cgnv6/pcp
Element Attributes	pcp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/pcp/stats
Schema	`pcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/pcp

pcp attributes

```
POST /axapi/v3/cgnv6/pcp
Payload:
{
    "pcp": {
        "default-template": "a"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/pcp

pcp attributes

```
GET /axapi/v3/cgnv6/pcp
Reponse:
{
    "pcp": {
        "default-template": "a",
        "uuid": "c5ed508a-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/pcp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/pcp

pcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/pcp

pcp attributes

```
PUT /axapi/v3/cgnv6/pcp
Payload:
{
    "pcp": {
        "default-template": "abcd"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/pcp

pcp attributes

```
DELETE /axapi/v3/cgnv6/pcp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

pcp attributes

default-template

Description Bind the default template for PCP (Bind a PCP template)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packets-rcv': Packets Received; 'lsn-map-process-success': PCP MAP Request Processing Success (NAT44); 'dslite-map-process-success': PCP MAP Request Processing Success (DS-Lite); 'nat64-map-process-success': PCP MAP Request Processing Success (NAT64); 'lsn-peer-process-success': PCP PEER Request Processing Success (NAT44); 'dslite-peer-process-success': PCP PEER Request Processing Success (DS-Lite); 'nat64-peer-process-success': PCP PEER Request Processing Success (NAT64); 'lsn-announce-process-success': PCP ANNOUNCE Request Processing Success (NAT44); 'dslite-announce-process-success': PCP ANNOUNCE Request Processing Success (DS-Lite); 'nat64-announce-process-success': PCP ANNOUNCE Request Processing Success (NAT64); 'pkt-not-request-drop': Packet Not a PCP Request; 'pkt-too-short-drop': Packet Too Short; 'noroute-drop': Response No Route; 'unsupported-version': Unsupported PCP version; 'not-authorized': PCP Request Not Authorized; 'malform-request': PCP Request Malformed; 'unsupp-opcode': Unsupported PCP Opcode; 'unsupp-option': Unsupported PCP Option; 'malform-option': PCP Option Malformed; 'no-resources': No System or NAT Resources; 'unsupp-protocol': Unsupported Mapping Protocol; 'user-quota-exceeded': User Quota Exceeded; 'cannot-provide-suggest': Cannot Provide Suggested Port When PREFER_FAILURE; 'address-mismatch': PCP Client Address Mismatch; 'excessive-remote-peers': Excessive Remote Peers; 'pkt-not-from-nat-inside': Packet Dropped For Not Coming From NAT Inside; 'l4-process-error': L3/L4 Process Error; 'internal-error-drop': Internal Error; 'unsol_ance_sent_succ': Unsolicited Announce Sent; 'unsol_ance_sent_fail': Unsolicited Announce Send Failure; 'ha_sync_epoch_sent': HA Sync PCP Epoch Sent; 'ha_sync_epoch_rcv': HA Sync PCP Epoch Recv; 'fullcone-ext-alloc': PCP

Fullcone Extension Alloc; 'fullcone-ext-free': PCP Fullcone Extension Free; 'fullcone-ext-alloc-failure': PCP Fullcone Extension Alloc Failure; 'fullcone-ext-notfound': PCP Fullcone Extension Not Found; 'fullcone-ext-reuse': PCP Fullcone Extension Reuse; 'client-nonce-mismatch': PCP Client Nonce Mismatch; 'map-filter-set': PCP MAP Filter Set; 'map-filter-deny': PCP MAP Filter Deny Inbound; 'inter-board-pkts': PCP Inter board packets;

Type: string

Supported Values: all, packets-rcv, lsn-map-process-success, dslite-map-process-success, nat64-map-process-success, lsn-peer-process-success, dslite-peer-process-success, nat64-peer-process-success, lsn-announce-process-success, dslite-announce-process-success, nat64-announce-process-success, pkt-not-request-drop, pkt-too-short-drop, noroute-drop, unsupported-version, not-authorized, malform-request, unsupp-opcode, unsupp-option, malform-option, no-resources, unsupp-protocol, user-quota-exceeded, cannot-provide-suggest, address-mismatch, excessive-remote-peers, pkt-not-from-nat-inside, l4-process-error, internal-error-drop, unsol_ance_sent_succ, unsol_ance_sent_fail, ha_sync_epoch_sent, ha_sync_epoch_rcv, fullcone-ext-alloc, fullcone-ext-free, fullcone-ext-alloc-failure, fullcone-ext-notfound, fullcone-ext-reuse, client-nonce-mismatch, map-filter-set, map-filter-deny, inter-board-pkts

2.26.302 cgnv6 pcp stats

Statistics for the object pcp

pcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pcp
Element URI	/axapi/v3/cgnv6/pcp/stats
Element Attributes	pcp_attributes
Partition Visibility	None
Schema	`pcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/pcp/stats

pcp attributes

Get Object

GET

/axapi/v3/cgnv6/pcp/stats

pcp attributes

Modify Object

POST

/axapi/v3/cgnv6/pcp/stats

pcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/pcp/stats

pcp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/pcp/stats

pcp attributes

pcp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

address-mismatch

Description PCP Client Address Mismatch

Type: number

Format: counter

cannot-provide-suggest

Description Cannot Provide Suggested Port When PREFER_FAILURE

Type: number

Format: counter

dslite-announce-process-success

Description PCP ANNOUNCE Request Processing Success (DS-Lite)

Type: number

Format: counter

dslite-map-process-success

Description PCP MAP Request Processing Success (DS-Lite)

Type: number

Format: counter

dslite-peer-process-success

Description PCP PEER Request Processing Success (DS-Lite)

Type: number

Format: counter

excessive-remote-peers

Description Excessive Remote Peers

Type: number

Format: counter

ha_sync_epoch_rcv

Description HA Sync PCP Epoch Recv

Type: number

Format: counter

ha_sync_epoch_sent

Description HA Sync PCP Epoch Sent

Type: number

Format: counter

internal-error-drop

Description Internal Error

Type: number

Format: counter

l4-process-error

Description L3/L4 Process Error

Type: number

Format: counter

lsn-announce-process-success

Description PCP ANNOUNCE Request Processing Success (NAT44)

Type: number

Format: counter

lsn-map-process-success

Description PCP MAP Request Processing Success (NAT44)

Type: number

Format: counter

lsn-peer-process-success

Description PCP PEER Request Processing Success (NAT44)

Type: number

Format: counter

malform-option

Description PCP Option Malformed

Type: number

Format: counter

malform-request

Description PCP Request Malformed

Type: number

Format: counter

nat64-announce-process-success

Description PCP ANNOUNCE Request Processing Success (NAT64)

Type: number

Format: counter

nat64-map-process-success

Description PCP MAP Request Processing Success (NAT64)

Type: number

Format: counter

nat64-peer-process-success

Description PCP PEER Request Processing Success (NAT64)

Type: number

Format: counter

no-resources

Description No System or NAT Resources

Type: number

Format: counter

noroute-drop

Description Response No Route

Type: number

Format: counter

not-authorized

Description PCP Request Not Authorized

Type: number

Format: counter

packets-rcv

Description Packets Received

Type: number

Format: counter

pkt-not-from-nat-inside

Description Packet Dropped For Not Coming From NAT Inside

Type: number

Format: counter

pkt-not-request-drop

Description Packet Not a PCP Request

Type: number

Format: counter

pkt-too-short-drop

Description Packet Too Short

Type: number

Format: counter

unsol_ance_sent_fail

Description Unsolicited Announce Send Failure

Type: number

Format: counter

unsol_ance_sent_succ

Description Unsolicited Announce Sent

Type: number

Format: counter

unsupp-opcode

Description Unsupported PCP Opcode

Type: number

Format: counter

unsupp-option

Description Unsupported PCP Option

Type: number

Format: counter

unsupp-protocol

Description Unsupported Mapping Protocol

Type: number

Format: counter

unsupported-version

Description Unsupported PCP version

Type: number

Format: counter

user-quota-exceeded

Description User Quota Exceeded

Type: number

Format: counter

2.26.303 cgnv6 port-batch-v1

Configure Port-batch-v1 Behavior

port-batch-v1 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-batch-v1
Element URI	/axapi/v3/cgnv6/port-batch-v1
Element Attributes	port-batch-v1_attributes
Partition Visibility	shared
Schema	`port-batch-v1 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/port-batch-v1

port-batch-v1 attributes

```
POST /axapi/v3/cgnv6/port-batch-v1
Payload:
{
    "port-batch-v1": {
        "enable-port-batch-v1": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/port-batch-v1

port-batch-v1 attributes

```
GET /axapi/v3/cgnv6/port-batch-v1
Reponse:
{
    "port-batch-v1": {
        "enable-port-batch-v1": 1,
        "uuid": "08890298-08b6-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/port-batch-v1"
```

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```
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/port-batch-v1

port-batch-v1 attributes

Replace Object

PUT

/axapi/v3/cgnv6/port-batch-v1

port-batch-v1 attributes

Delete Object

DELETE

/axapi/v3/cgnv6/port-batch-v1

port-batch-v1 attributes

port-batch-v1 attributes

enable-port-batch-v1

Description Enable lsn port-batching v1 (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.304 cgnv6 port-list

Configure port list

port-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*port-list-list*
Collection URI	/axapi/v3/cgnv6/port-list
Element Name	port-list
Element URI	/axapi/v3/cgnv6/port-list/{name}
Element Attributes	port-list_attributes
Partition Visibility	shared
Schema	`port-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/port-list

port-list attributes

```
POST /axapi/v3/cgnv6/port-list/
Payload:
{
    "port-list": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/port-list

port-list attributes

Get Object

GET

/axapi/v3/cgnv6/port-list/{name}

port-list attributes

```
GET /axapi/v3/cgnv6/port-list/a
Reponse:
{
    "port-list": {
        "name": "a",
        "uuid": "20e80226-08b6-11f0-951d-a9cf5715f49c",
        "user-tag": "a",
        "a10-url": "/axapi/v3/cgnv6/port-list/a"
```

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```
    }
}
```

Get List

GET

/axapi/v3/cgnv6/port-list

port-list-list

Modify Object

POST

/axapi/v3/cgnv6/port-list/{name}

port-list attributes

Replace Object

PUT

/axapi/v3/cgnv6/port-list/{name}

port-list attributes

```
PUT /axapi/v3/cgnv6/port-list/a
Payload:
{
    "port-list": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/port-list

port-list-list

Delete Object

DELETE

/axapi/v3/cgnv6/port-list/{name}

port-list attributes

```
DELETE /axapi/v3/cgnv6/port-list/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

port-list-list

port-list-list is **JSON List** of *port-list attributes*

port-list-list : [

{ *port-list attributes* },

{ *port-list attributes* },

...

]

port-list attributes

name

Description Specify name of the port list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-config

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-config

Specification	Value
Type	*list*
Block object keys	

original-port

Description Original port to be translated

Type: number

Range: 0-65535

translated-port

Description Port after translation

Type: number

Range: 0-65535

2.26.305 cgnv6 resource-usage

Configure CGNV6 Resource Usage

resource-usage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	resource-usage
Element URI	/axapi/v3/cgnv6/resource-usage
Element Attributes	resource-usage_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/resource-usage/oper
Schema	`resource-usage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/resource-usage

resource-usage attributes

```
POST /axapi/v3/cgnv6/resource-usage
Payload:
{
    "resource-usage": {
        "lsn-nat-addr-count": 512,
        "stateless-entries": {
            "l4-session-count": 67108864
```

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```
        }
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/resource-usage

resource-usage attributes

```
GET /axapi/v3/cgnv6/resource-usage
Reponse:
{
    "resource-usage": {
        "lsn-nat-addr-count": 512,
        "fixed-nat-ip-addr-count": 12000,
        "fixed-nat-inside-user-count": 2000000,
        "radius-table-size": 4000000,
        "uuid": "c5ed2010-0890-11f0-a250-a9cf5715f49c",
        "stateless-entries": {
            "l4-session-count": 67108864,
            "uuid": "47d83c0c-08b6-11f0-951d-a9cf5715f49c",
            "a10-url": "/axapi/v3/cgnv6/resource-usage/stateless-entries"
        },
        "a10-url": "/axapi/v3/cgnv6/resource-usage"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/resource-usage

resource-usage attributes

Replace Object

PUT

/axapi/v3/cgnv6/resource-usage

resource-usage attributes

```
PUT /axapi/v3/cgnv6/resource-usage
Payload:
{
    "resource-usage": {
        "fixed-nat-ip-addr-count": 12000,
        "stateless-entries": {
            "l4-session-count": 67108864
        }
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/resource-usage

resource-usage attributes

```
DELETE /axapi/v3/cgnv6/resource-usage
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Changes will come into effect next time you reload the Software."
    }
}
```

resource-usage attributes

fixed-nat-inside-user-count

Description Total configurable CGNV6 Fixed NAT inside users

Type: number

fixed-nat-ip-addr-count

Description Total configurable CGNV6 Fixed NAT addresses

Type: number

lsn-nat-addr-count

Description Total configurable CGNV6 NAT Pool addresses

Type: number

radius-table-size

Description Total configurable CGNV6 RADIUS Table entries

Type: number

stateless-entries

Description: stateless-entries is a **JSON Block**. Please see below for *stateless-entries*

Type: Object

Reference Object: */axapi/v3/cgnv6/resource-usage/stateless-entries*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stateless-entries

Specification	Value
Type	*object*

l4-session-count

Description Helper size for CGN Stateless Technologies

Type: number

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.306 cgnv6 resource-usage oper

Operational Status for the object resource-usage

resource-usage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	resource-usage
Element URI	/axapi/v3/cgnv6/resource-usage/oper
Element Attributes	resource-usage_attributes
Partition Visibility	None
Schema	`resource-usage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/resource-usage/oper

resource-usage attributes

Get Object

GET

/axapi/v3/cgnv6/resource-usage/oper

resource-usage attributes

Modify Object

POST

/axapi/v3/cgnv6/resource-usage/oper

resource-usage attributes

Replace Object

PUT

/axapi/v3/cgnv6/resource-usage/oper

resource-usage attributes

Delete Object

DELETE

/axapi/v3/cgnv6/resource-usage/oper

resource-usage attributes

resource-usage attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

fixed-nat-inside-user-count-default

Description

Type: number

fixed-nat-inside-user-count-max

Description

Type: number

fixed-nat-inside-user-count-min

Description

Type: number

fixed-nat-ip-addr-count-default

Description

Type: number

fixed-nat-ip-addr-count-max

Description

Type: number

fixed-nat-ip-addr-count-min

Description

Type: number

lsn-nat-addr-count-default

Description

Type: number

lsn-nat-addr-count-max

Description

Type: number

lsn-nat-addr-count-min

Description

Type: number

radius-table-size-default

Description

Type: number

radius-table-size-max

Description

Type: number

radius-table-size-min

Description

Type: number

2.26.307 cgnv6 resource-usage stateless-entries

Helper size for CGN Stateless Technologies

stateless-entries Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	stateless-entries
Element URI	/axapi/v3/cgnv6/resource-usage/stateless-entries
Element Attributes	stateless-entries_attributes
Partition Visibility	shared
Schema	`stateless-entries schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/resource-usage/stateless-entries

stateless-entries attributes

```
POST /axapi/v3/cgnv6/resource-usage/stateless-entries
Payload:
{
    "stateless-entries": {
        "l4-session-count": 67108864
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/resource-usage/stateless-entries

stateless-entries attributes

```
GET /axapi/v3/cgnv6/resource-usage/stateless-entries
Reponse:
{
    "stateless-entries": {
        "l4-session-count": 67108864,
        "uuid": "71c2988c-08b6-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/resource-usage/stateless-entries"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/resource-usage/stateless-entries

stateless-entries attributes

Replace Object

PUT

/axapi/v3/cgnv6/resource-usage/stateless-entries

stateless-entries attributes

```
PUT /axapi/v3/cgnv6/resource-usage/stateless-entries
Payload:
{
    "stateless-entries": {
        "l4-session-count": 67108864
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/resource-usage/stateless-entries

stateless-entries attributes

```
DELETE /axapi/v3/cgnv6/resource-usage/stateless-entries
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Changes will come into effect next time you reload the Software."
    }
}
```

stateless-entries attributes

l4-session-count

Description Helper size for CGN Stateless Technologies

Type: number

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.308 cgnv6 scaleout

CGN Scaleout configuration

scaleout Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	scaleout
Element URI	/axapi/v3/cgnv6/scaleout
Element Attributes	scaleout_attributes
Partition Visibility	shared
Schema	`scaleout schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/scaleout

scaleout_attributes

scaleout attributes

address-mapping

Description: address-mapping is a **JSON Block**. Please see below for *address-mapping*

Type: Object

Reference Object: */axapi/v3/cgnv6/scaleout/address-mapping*

nat-ip-hashing-scheme

Description: nat-ip-hashing-scheme is a **JSON Block**. Please see below for *nat-ip-hashing-scheme*

Type: Object

Reference Object: */axapi/v3/cgnv6/scaleout/nat-ip-hashing-scheme*

address-mapping

Specification	Value
Type	*object*

inside-user-or-nat-ip

Description: inside-user-or-nat-ip is a **JSON Block**. Please see below for *address-mapping_inside-user-or-nat-ip*

Type: Object

Reference Object: */axapi/v3/cgnv6/scaleout/address-mapping/inside-user-or-nat-ip*

nat-pool-or-fixed-nat

Description: nat-pool-or-fixed-nat is a **JSON Block**. Please see below for *address-mapping_nat-pool-or-fixed-nat*

Type: Object

Reference Object: */axapi/v3/cgnv6/scaleout/address-mapping/nat-pool-or-fixed-nat*

address-mapping_nat-pool-or-fixed-nat

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

address-mapping_inside-user-or-nat-ip

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

nat-ip-hashing-scheme

Specification	Value
Type	*object*

hashing-type

Description 'route-aggregation': Chunk contiguous NAT IPs for route aggregation(default); 'mod-user-groups': Hash NAT IPs by taking mod of user-groups;

Type: string

Supported Values: route-aggregation, mod-user-groups

Default: route-aggregation

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.309 cgnv6 scaleout address-mapping

address-mapping Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	address-mapping
Element URI	/axapi/v3/cgnv6/scaleout/address-mapping
Element Attributes	address-mapping_attributes
Partition Visibility	shared
Schema	`address-mapping schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/scaleout/address-mapping

address-mapping_attributes

address-mapping attributes

inside-user-or-nat-ip

Description: inside-user-or-nat-ip is a **JSON Block**. Please see below for *inside-user-or-nat-ip*

Type: Object

Reference Object: */axapi/v3/cgnv6/scaleout/address-mapping/inside-user-or-nat-ip*

nat-pool-or-fixed-nat

Description: nat-pool-or-fixed-nat is a **JSON Block**. Please see below for *nat-pool-or-fixed-nat*

Type: Object

Reference Object: */axapi/v3/cgnv6/scaleout/address-mapping/nat-pool-or-fixed-nat*

nat-pool-or-fixed-nat

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

inside-user-or-nat-ip

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.310 cgnv6 scaleout address-mapping inside-user-or-nat-ip oper

Operational Status for the object inside-user-or-nat-ip

inside-user-or-nat-ip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	inside-user-or-nat-ip
Element URI	/axapi/v3/cgnv6/scaleout/address-mapping/inside-user-or-nat-ip/oper
Element Attributes	inside-user-or-nat-ip_attributes
Partition Visibility	None
Schema	`inside-user-or-nat-ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/scaleout/address-mapping/inside-user-or-nat-ip/oper

inside-user-or-nat-ip attributes

Get Object

GET

/axapi/v3/cgnv6/scaleout/address-mapping/inside-user-or-nat-ip/oper

inside-user-or-nat-ip attributes

Modify Object

POST

/axapi/v3/cgnv6/scaleout/address-mapping/inside-user-or-nat-ip/oper

inside-user-or-nat-ip attributes

Replace Object

PUT

/axapi/v3/cgnv6/scaleout/address-mapping/inside-user-or-nat-ip/oper

inside-user-or-nat-ip attributes

Delete Object

DELETE

/axapi/v3/cgnv6/scaleout/address-mapping/inside-user-or-nat-ip/oper

inside-user-or-nat-ip attributes

inside-user-or-nat-ip attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

active-node

Description

Type: number

application

Description

Type: string

application_type

Description

Type: string

ip

Description

Type: string

Format: ipv4-address

ipv6

Description

Type: string

Format: ipv6-address

nat-ip

Description

Type: string

Format: ipv4-address

service-template

Description

Type: string

standby-node

Description

Type: number

user-group

Description

Type: number

2.26.311 cgnv6 scaleout address-mapping nat-pool-or-fixed-nat oper

Operational Status for the object nat-pool-or-fixed-nat

nat-pool-or-fixed-nat Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	nat-pool-or-fixed-nat
Element URI	/axapi/v3/cgnv6/scaleout/address-mapping/nat-pool-or-fixed-nat/oper
Element Attributes	nat-pool-or-fixed-nat_attributes
Partition Visibility	None
Schema	`nat-pool-or-fixed-nat schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/scaleout/address-mapping/nat-pool-or-fixed-nat/oper

nat-pool-or-fixed-nat attributes

Get Object

GET

/axapi/v3/cgnv6/scaleout/address-mapping/nat-pool-or-fixed-nat/oper

nat-pool-or-fixed-nat attributes

Modify Object

POST

/axapi/v3/cgnv6/scaleout/address-mapping/nat-pool-or-fixed-nat/oper

nat-pool-or-fixed-nat attributes

Replace Object

PUT

/axapi/v3/cgnv6/scaleout/address-mapping/nat-pool-or-fixed-nat/oper

nat-pool-or-fixed-nat attributes

Delete Object

DELETE

/axapi/v3/cgnv6/scaleout/address-mapping/nat-pool-or-fixed-nat/oper

nat-pool-or-fixed-nat attributes

nat-pool-or-fixed-nat attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

index

Description

Type: number

ip-list

Type: List

nat-pool

Description

Type: string

service-template

Description

Type: string

oper_ip-list

Specification	Value
Type	*list*
Block object keys	

active-node

Description

Type: number

nat-ip

Description

Type: string

standby-node

Description

Type: number

user-group

Description

Type: number

2.26.312 cgnv6 scaleout nat-ip-hashing-scheme

Configure Scaleout NAT IP Hashing scheme

nat-ip-hashing-scheme Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	nat-ip-hashing-scheme
Element URI	/axapi/v3/cgnv6/scaleout/nat-ip-hashing-scheme
Element Attributes	nat-ip-hashing-scheme_attributes
Partition Visibility	shared
Schema	`nat-ip-hashing-scheme schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/scaleout/nat-ip-hashing-scheme

nat-ip-hashing-scheme attributes

```
POST /axapi/v3/cgnv6/scaleout/nat-ip-hashing-scheme
Payload:
{
    "nat-ip-hashing-scheme": {
        "hashing-type": "route-aggregation"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/scaleout/nat-ip-hashing-scheme

nat-ip-hashing-scheme attributes

```
GET /axapi/v3/cgnv6/scaleout/nat-ip-hashing-scheme
Reponse:
{
    "nat-ip-hashing-scheme": {
        "hashing-type": "route-aggregation",
        "uuid": "c5ecf694-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/scaleout/nat-ip-hashing-scheme"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/scaleout/nat-ip-hashing-scheme

nat-ip-hashing-scheme attributes

Replace Object

PUT

/axapi/v3/cgnv6/scaleout/nat-ip-hashing-scheme

nat-ip-hashing-scheme attributes

```
PUT /axapi/v3/cgnv6/scaleout/nat-ip-hashing-scheme
Payload:
{
    "nat-ip-hashing-scheme": {
        "hashing-type": "route-aggregation"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/scaleout/nat-ip-hashing-scheme

nat-ip-hashing-scheme attributes

```
DELETE /axapi/v3/cgnv6/scaleout/nat-ip-hashing-scheme
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

nat-ip-hashing-scheme attributes

hashing-type

Description 'route-aggregation': Chunk contiguous NAT IPs for route aggregation(default); 'mod-user-groups': Hash NAT IPs by taking mod of user-groups;

Type: string

Supported Values: route-aggregation, mod-user-groups

Default: route-aggregation

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.313 cgnv6 sctp

Configure CGNv6 SCTP NAT parameters

sctp Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	sctp
Element URI	/axapi/v3/cgnv6/sctp
Element Attributes	sctp_attributes
Partition Visibility	shared
Schema	`sctp schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/sctp

sctp_attributes

sctp attributes

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/cgnv6/sctp/global*

permit-payload-protocol

Description: permit-payload-protocol is a **JSON Block**. Please see below for *permit-payload-protocol*

Type: Object

Reference Object: */axapi/v3/cgnv6/sctp/permit-payload-protocol*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *rate-limit*

Type: Object

Reference Object: */axapi/v3/cgnv6/sctp/rate-limit*

rate-limit-entries

Description: rate-limit-entries is a **JSON Block**. Please see below for *rate-limit-entries*

Type: Object

Reference Object: */axapi/v3/cgnv6/sctp/rate-limit-entries*

rate-limit-entries

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global

Specification	Value
Type	*object*

half-open-timeout

Description Set SCTP half-open timeout (SCTP half-open timeout in seconds (default 4))

Type: number

Range: 2-30

Default: 4

idle-timeout

Description SCTP idle timeout in minutes (default 5)

Type: number

Range: 1-63

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rate-limit

Specification	Value
Type	*object*

destination-list

Type: List

Reference Object: */axapi/v3/cgnv6/sctp/rate-limit/destination/{ip}*

source-list

Type: List

Reference Object: */axapi/v3/cgnv6/sctp/rate-limit/source/{ip}*

rate-limit_source-list

Specification	Value
Type	*list*
Block object keys	

ip

Description IP address

Type: string

Format: ipv4-address

rate-limit

Description Rate limit in packets per second

Type: number

Range: 1-2147483647

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rate-limit_destination-list

Specification	Value
Type	*list*
Block object keys	

ip

Description IP address

Type: string

Format: ipv4-address

rate-limit

Description Rate limit in packets per second

Type: number

Range: 1-2147483647

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

permit-payload-protocol

Specification	Value
Type	*object*

protocol-id-list

Type: List

Reference Object: */axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id/{id}*

protocol-name-list

Type: List

Reference Object: */axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name/{protocol}*

permit-payload-protocol_protocol-id-list

Specification	Value
Type	*list*
Block object keys	

id

Description Specify SCTP permitted payload protocol IDs

Type: number

Range: 1-63

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

permit-payload-protocol_protocol-name-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'iua': IUA; 'm2ua': M2UA; 'm3ua': M3UA; 'sua': SUA; 'm2pa': M2PA; 'h.323': H.323;

Type: string

Supported Values: iua, m2ua, m3ua, sua, m2pa, h.323

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.314 cgnv6 sctp global

Configure CGNv6 SCTP NAT global parameters

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/sctp/global
Element Attributes	global_attributes
Partition Visibility	shared
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/sctp/global

global attributes

Get Object

GET

/axapi/v3/cgnv6/sctp/global

global attributes

Modify Object

POST

/axapi/v3/cgnv6/sctp/global

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/sctp/global

global attributes

Delete Object

DELETE

/axapi/v3/cgnv6/sctp/global

global attributes

global attributes

half-open-timeout

Description Set SCTP half-open timeout (SCTP half-open timeout in seconds (default 4))

Type: number

Range: 2-30

Default: 4

idle-timeout

Description SCTP idle timeout in minutes (default 5)

Type: number

Range: 1-63

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.315 cgnv6 sctp permit-payload-protocol

Configure SCTP permitted payload protocols

permit-payload-protocol Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	permit-payload-protocol
Element URI	/axapi/v3/cgnv6/sctp/permit-payload-protocol
Element Attributes	permit-payload-protocol_attributes
Partition Visibility	shared
Schema	`permit-payload-protocol schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/sctp/permit-payload-protocol

permit-payload-protocol_attributes

permit-payload-protocol attributes

protocol-id-list

Type: List

Reference Object: */axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id/{id}*

protocol-name-list

Type: List

Reference Object: */axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name/{protocol}*

protocol-id-list

Specification	Value
Type	*list*
Block object keys	

id

Description Specify SCTP permitted payload protocol IDs

Type: number

Range: 1-63

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

protocol-name-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'iua': IUA; 'm2ua': M2UA; 'm3ua': M3UA; 'sua': SUA; 'm2pa': M2PA; 'h.323': H.323;

Type: string

Supported Values: iua, m2ua, m3ua, sua, m2pa, h.323

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.316 cgnv6 sctp permit-payload-protocol protocol-id

Configure SCTP permitted payload protocol ID

protocol-id Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*id*
Collection Name	*protocol-id-list*
Collection URI	/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id
Element Name	protocol-id
Element URI	/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id/{id}
Element Attributes	protocol-id_attributes
Partition Visibility	shared
Schema	`protocol-id schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id

protocol-id attributes

```
POST /axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id/
Payload:
{
    "protocol-id": {
        "id": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id

protocol-id attributes

Get Object

GET

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id/{id}

protocol-id attributes

```
GET /axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id/1
Reponse:
{
    "protocol-id": {
        "id": 1,
        "uuid": "3b234596-08b7-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id/1"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id

protocol-id-list

Modify Object

POST

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id/{id}

protocol-id attributes

Replace Object

PUT

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id/{id}

protocol-id attributes

```
PUT /axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id/1
Payload:
{
    "protocol-id": {
        "id": 1
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id

protocol-id-list

Delete Object

DELETE

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id/{id}

protocol-id attributes

```
DELETE /axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-id/1
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

protocol-id-list

protocol-id-list is **JSON List** of *protocol-id attributes*

protocol-id-list : [

{ *protocol-id attributes* },

{ *protocol-id attributes* },

...

]

protocol-id attributes

id

Description Specify SCTP permitted payload protocol IDs

Type: number

Range: 1-63

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.317 cgnv6 sctp permit-payload-protocol protocol-name

Configure SCTP permitted payload protocols

protocol-name Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*protocol-name-list*
Collection URI	/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name
Element Name	protocol-name
Element URI	/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name/{protocol}
Element Attributes	protocol-name_attributes
Partition Visibility	shared
Schema	`protocol-name schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name

protocol-name attributes

```
POST /axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name/
Payload:
{
    "protocol-name": {
        "protocol": "iua"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name

protocol-name attributes

Get Object

GET

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name/{protocol}

protocol-name attributes

```
GET /axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name/iua
Reponse:
{
    "protocol-name": {
        "protocol": "iua",
        "uuid": "53d1b384-08b7-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name/iua"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name

protocol-name-list

Modify Object

POST

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name/{protocol}

protocol-name attributes

Replace Object

PUT

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name/{protocol}

protocol-name attributes

```
PUT /axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name/iua
Payload:
{
    "protocol-name": {
        "protocol": "iua"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name

protocol-name-list

Delete Object

DELETE

/axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name/{protocol}

protocol-name attributes

```
DELETE /axapi/v3/cgnv6/sctp/permit-payload-protocol/protocol-name/iua
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

protocol-name-list

protocol-name-list is **JSON List** of *protocol-name attributes*

protocol-name-list : [

{ *protocol-name attributes* },

{ *protocol-name attributes* },

...

]

protocol-name attributes

protocol

Description 'iua': IUA; 'm2ua': M2UA; 'm3ua': M3UA; 'sua': SUA; 'm2pa': M2PA; 'h.323': H.323;

Type: string

Supported Values: iua, m2ua, m3ua, sua, m2pa, h.323

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.318 cgnv6 sctp rate-limit

Configure SCTP rate-limit

rate-limit Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	rate-limit
Element URI	/axapi/v3/cgnv6/sctp/rate-limit
Element Attributes	rate-limit_attributes
Partition Visibility	shared
Schema	`rate-limit schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/sctp/rate-limit

rate-limit_attributes

rate-limit attributes

destination-list

Type: List

Reference Object: */axapi/v3/cgnv6/sctp/rate-limit/destination/{ip}*

source-list

Type: List

Reference Object: */axapi/v3/cgnv6/sctp/rate-limit/source/{ip}*

source-list

Specification	Value
Type	*list*
Block object keys	

ip

Description IP address

Type: string

Format: ipv4-address

rate-limit

Description Rate limit in packets per second

Type: number

Range: 1-2147483647

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

destination-list

Specification	Value
Type	*list*
Block object keys	

ip

Description IP address

Type: string

Format: ipv4-address

rate-limit

Description Rate limit in packets per second

Type: number

Range: 1-2147483647

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.319 cgnv6 sctp rate-limit destination

Configure SCTP destination rate-limit

destination Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ip*
Collection Name	*destination-list*
Collection URI	/axapi/v3/cgnv6/sctp/rate-limit/destination
Element Name	destination
Element URI	/axapi/v3/cgnv6/sctp/rate-limit/destination/{ip}
Element Attributes	destination_attributes
Partition Visibility	shared
Schema	`destination schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/sctp/rate-limit/destination

destination attributes

```
POST /axapi/v3/cgnv6/sctp/rate-limit/destination/
Payload:
{
    "destination": {
        "ip": "3.3.3.3",
        "rate-limit": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/sctp/rate-limit/destination

destination attributes

Get Object

GET

/axapi/v3/cgnv6/sctp/rate-limit/destination/{ip}

destination attributes

```
GET /axapi/v3/cgnv6/sctp/rate-limit/destination/3.3.3.3
Reponse:
{
    "destination": {
        "ip": "3.3.3.3",
        "rate-limit": 1,
        "uuid": "8362ea78-08b7-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/sctp/rate-limit/destination/3.3.3.3"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/sctp/rate-limit/destination

destination-list

Modify Object

POST

/axapi/v3/cgnv6/sctp/rate-limit/destination/{ip}

destination attributes

Replace Object

PUT

/axapi/v3/cgnv6/sctp/rate-limit/destination/{ip}

destination attributes

```
PUT /axapi/v3/cgnv6/sctp/rate-limit/destination/3.3.3.3
Payload:
{
    "destination": {
        "ip": "3.3.3.3",
        "rate-limit": 1
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/sctp/rate-limit/destination

destination-list

Delete Object

DELETE

/axapi/v3/cgnv6/sctp/rate-limit/destination/{ip}

destination attributes

```
DELETE /axapi/v3/cgnv6/sctp/rate-limit/destination/3.3.3.3
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

destination-list

destination-list is **JSON List** of *destination attributes*

destination-list : [

{ *destination attributes* },

{ *destination attributes* },

...

]

destination attributes

ip

Description IP address

Type: string

Format: ipv4-address

rate-limit

Description Rate limit in packets per second

Type: number

Range: 1-2147483647

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.320 cgnv6 sctp rate-limit-entries

Display CGNv6 SCTP Rate-limit Entries

rate-limit-entries Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rate-limit-entries
Element URI	/axapi/v3/cgnv6/sctp/rate-limit-entries
Element Attributes	rate-limit-entries_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/sctp/rate-limit-entries/oper
Schema	`rate-limit-entries schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/sctp/rate-limit-entries

rate-limit-entries attributes

Get Object

GET

/axapi/v3/cgnv6/sctp/rate-limit-entries

rate-limit-entries attributes

Modify Object

POST

/axapi/v3/cgnv6/sctp/rate-limit-entries

rate-limit-entries attributes

Replace Object

PUT

/axapi/v3/cgnv6/sctp/rate-limit-entries

rate-limit-entries attributes

Delete Object

DELETE

/axapi/v3/cgnv6/sctp/rate-limit-entries

rate-limit-entries attributes

rate-limit-entries attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.321 cgnv6 sctp rate-limit-entries oper

Operational Status for the object rate-limit-entries

rate-limit-entries Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rate-limit-entries
Element URI	/axapi/v3/cgnv6/sctp/rate-limit-entries/oper
Element Attributes	rate-limit-entries_attributes
Partition Visibility	None
Schema	`rate-limit-entries schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/sctp/rate-limit-entries/oper

rate-limit-entries attributes

Get Object

GET

/axapi/v3/cgnv6/sctp/rate-limit-entries/oper

rate-limit-entries attributes

Modify Object

POST

/axapi/v3/cgnv6/sctp/rate-limit-entries/oper

rate-limit-entries attributes

Replace Object

PUT

/axapi/v3/cgnv6/sctp/rate-limit-entries/oper

rate-limit-entries attributes

Delete Object

DELETE

/axapi/v3/cgnv6/sctp/rate-limit-entries/oper

rate-limit-entries attributes

rate-limit-entries attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

entry-count

Description

Type: number

rate-limit-entries-list

Type: List

oper_rate-limit-entries-list

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

Format: ipv4-address

direction

Description

Type: string

pps

Description

Type: number

rate-limit

Description

Type: number

2.26.322 cgnv6 sctp rate-limit source

Configure SCTP source rate-limit

source Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ip*
Collection Name	*source-list*
Collection URI	/axapi/v3/cgnv6/sctp/rate-limit/source
Element Name	source
Element URI	/axapi/v3/cgnv6/sctp/rate-limit/source/{ip}
Element Attributes	source_attributes
Partition Visibility	shared
Schema	`source schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/sctp/rate-limit/source

source attributes

```
POST /axapi/v3/cgnv6/sctp/rate-limit/source/
Payload:
{
    "source": {
        "ip": "3.3.3.3",
        "rate-limit": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/sctp/rate-limit/source

source attributes

Get Object

GET

/axapi/v3/cgnv6/sctp/rate-limit/source/{ip}

source attributes

```
GET /axapi/v3/cgnv6/sctp/rate-limit/source/3.3.3.3
Reponse:
{
    "source": {
        "ip": "3.3.3.3",
        "rate-limit": 1,
        "uuid": "ae6817ca-08b7-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/sctp/rate-limit/source/3.3.3.3"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/sctp/rate-limit/source

source-list

Modify Object

POST

/axapi/v3/cgnv6/sctp/rate-limit/source/{ip}

source attributes

Replace Object

PUT

/axapi/v3/cgnv6/sctp/rate-limit/source/{ip}

source attributes

```
PUT /axapi/v3/cgnv6/sctp/rate-limit/source/3.3.3.3
Payload:
{
    "source": {
        "ip": "3.3.3.3",
        "rate-limit": 1
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/sctp/rate-limit/source

source-list

Delete Object

DELETE

/axapi/v3/cgnv6/sctp/rate-limit/source/{ip}

source attributes

```
DELETE /axapi/v3/cgnv6/sctp/rate-limit/source/3.3.3.3
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

source-list

source-list is **JSON List** of *source attributes*

source-list : [

{ *source attributes* },

{ *source attributes* },

...

]

source attributes

ip

Description IP address

Type: string

Format: ipv4-address

rate-limit

Description Rate limit in packets per second

Type: number

Range: 1-2147483647

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.323 cgnv6 server

CGNV6 logging Server

server Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*server-list*
Collection URI	/axapi/v3/cgnv6/server
Element Name	server
Element URI	/axapi/v3/cgnv6/server/{name}
Element Attributes	server_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/server/{name}/stats
Operational Data URI	/axapi/v3/cgnv6/server/{name}/oper
Schema	`server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/server

server attributes

```
POST /axapi/v3/cgnv6/server/
Payload:
{
    "server": {
        "name": "a",
        "server-ipv6-addr": "2003::1"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/server

server attributes

Get Object

GET

/axapi/v3/cgnv6/server/{name}

server attributes

```
GET /axapi/v3/cgnv6/server/a
Reponse:
{
    "server": {
        "name": "a",
        "server-ipv6-addr": "2003::1",
        "action": "enable",
        "health-check-disable": 0,
        "uuid": "c808d002-08b7-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/server/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/server

server-list

Modify Object

POST

/axapi/v3/cgnv6/server/{name}

server attributes

Replace Object

PUT

/axapi/v3/cgnv6/server/{name}

server attributes

```
PUT /axapi/v3/cgnv6/server/a/port/0+tcp
Payload:
{
    "port": {
        "protocol": "tcp",
        "port-number": 0,
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/server

server-list

Delete Object

DELETE

/axapi/v3/cgnv6/server/{name}

server attributes

```
DELETE /axapi/v3/cgnv6/server/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

server-list

server-list is **JSON List** of *server attributes*

server-list : [

{ *server attributes* },

{ *server attributes* },

...

]

server attributes

action

Description 'enable': Enable this Real Server; 'disable': Disable this Real Server;

Type: string

Supported Values: enable, disable

Default: enable

fqdn-name

Description Server hostname

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

health-check

Description Health Check Monitor (Health monitor name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

host

Description IP Address

Type: string

Format: ipv4-address

name

Description Server Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

port-list

Type: List

Reference Object: */axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}*

resolve-as

Description 'resolve-to-ipv4': Use A Query only to resolve FQDN; 'resolve-to-ipv6': Use AAAA Query only to resolve FQDN; 'resolve-to-ipv4-and-ipv6': Use A as well as AAAA Query to resolve FQDN;

Type: string

Supported Values: resolve-to-ipv4, resolve-to-ipv6, resolve-to-ipv4-and-ipv6

Default: resolve-to-ipv4

sampling-enable

Type: List

server-ipv6-addr

Description IPV6 address

Type: string

Format: ipv6-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

follow-port-protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check, health-check-follow-port, and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable health check

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-follow-port

Description Specify which port to follow for health status (Port Number)

Type: number

Range: 1-65534

Mutual Exclusion: health-check-follow-port and health-check are mutually exclusive

port-number

Description Port Number

Type: number

Range: 0-65534

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr_conn': Current connections; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total request success; 'total_fwd_bytes': Forward bytes; 'total_fwd_pkts': Forward packets; 'total_rev_bytes': Reverse bytes; 'total_rev_pkts': Reverse packets; 'total_conn': Total connections; 'last_total_conn': Last total connections; 'peak_conn': Peak connections; 'es_resp_200': Response status 200; 'es_resp_300': Response status 300; 'es_resp_400': Response status 400; 'es_resp_500':

Response status 500; 'es_resp_other': Response status other; 'es_req_count': Total proxy request; 'es_resp_count': Total proxy Response; 'es_resp_invalid_http': Total non-http response; 'total_rev_pkts_inspected': Total reverse packets inspected; 'total_rev_pkts_inspected_good_status_code': Total reverse packets with good status code inspected; 'response_time': Response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time;

Type: string

Supported Values: all, curr_conn, curr_req, total_req, total_req_succ, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_conn, last_total_conn, peak_conn, es_resp_200, es_resp_300, es_resp_400, es_resp_500, es_resp_other, es_req_count, es_resp_count, es_resp_invalid_http, total_rev_pkts_inspected, total_rev_pkts_inspected_good_status_code, response_time, fastest_rsp_time, slowest_rsp_time

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr-conn': Current connections; 'total-conn': Total connections; 'fwd-pkt': Forward packets; 'rev-pkt': Reverse Packets; 'peak-conn': Peak connections;

Type: string

Supported Values: all, curr-conn, total-conn, fwd-pkt, rev-pkt, peak-conn

2.26.324 cgnv6 server oper

Operational Status for the object server

server Specification

Parameter	Value
Type	*Collection*
Collection Name	*server-list*
Collection URI	/axapi/v3/cgnv6/server/{name}
Element Name	server
Element URI	/axapi/v3/cgnv6/server/{name}/oper
Element Attributes	server_attributes
Partition Visibility	None
Schema	`server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/server/{name}

server attributes

Create List

POST

/axapi/v3/cgnv6/server/{name}

server attributes

Get Object

GET

/axapi/v3/cgnv6/server/{name}/oper

server attributes

Get List

GET

/axapi/v3/cgnv6/server/{name}

server-list

Modify Object

POST

/axapi/v3/cgnv6/server/{name}/oper

server attributes

Replace Object

PUT

/axapi/v3/cgnv6/server/{name}/oper

server attributes

Replace List

PUT

/axapi/v3/cgnv6/server/{name}

server-list

Delete Object

DELETE

/axapi/v3/cgnv6/server/{name}/oper

server attributes

server-list

server-list is **JSON List** of *server attributes*

server-list : [

{ *server attributes* },

{ *server attributes* },

...

]

server attributes

name

Description Server Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port-list

Type: List

Reference Object: */axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}*

oper

Specification	Value
Type	*object*

conn_rate_unit

Description

Type: string

creation_type

Description

Type: string

curr_conn_rate

Description

Type: number

curr_observe_rate

Description

Type: number

disable

Description

Type: number

dns_update_time

Description

Type: string

drs-list

Type: List

is_autocreate

Description

Type: number

server_ttl

Description

Type: number

slow_start_conn_limit

Description

Type: number

srv_gateway_arp

Description

Type: string

Format: mac-address

Maximum Length: 17 characters

Maximum Length: 11 characters

state

Description

Type: string

Supported Values: UP, DOWN, DELETE, DISABLED, MAINTENANCE

weight

Description

Type: number

oper_drs-list

Specification	Value
Type	*list*
Block object keys	

drs-conn_rate_unit

Description

Type: string

drs-creation_type

Description

Type: string

drs-curr-conn

Description

Type: number

drs-curr-req

Description

Type: number

drs-curr_conn_rate

Description

Type: number

drs-curr_observe_rate

Description

Type: number

drs-disable

Description

Type: number

drs-dns_update_time

Description

Type: string

drs-host

Description

Type: string

Format: ipv4-address

drs-is_autocreate

Description

Type: number

drs-name

Description

Type: string

drs-peak-conn

Description

Type: number

drs-server-ipv6-addr

Description

Type: string

Format: ipv6-address

drs-server_ttl

Description

Type: number

drs-slow_start_conn_limit

Description

Type: number

drs-srv_gateway_arp

Description

Type: string

Format: mac-address

Maximum Length: 17 characters

Maximum Length: 11 characters

drs-state

Description

Type: string

Supported Values: Up, Down, Disabled, Maintenance, Unknown, Functional Up, DIS-UP, DIS-DOWN, DIS-MAINTENANCE, DIS-EXCEED-RATE, DIS-UNKNOWN

drs-tot-conn

Description

Type: number

drs-tot-fwd-bytes

Description

Type: number

drs-tot-fwd-pkts

Description

Type: number

drs-tot-req

Description

Type: number

drs-tot-req-suc

Description

Type: number

drs-tot-rev-bytes

Description

Type: number

drs-tot-rev-pkts

Description

Type: number

drs-weight

Description

Type: number

port-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *port-list_oper*

Type: Object

port-number

Description Port Number

Type: number

Range: 0-65534

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

port-list_oper

Specification	Value
Type	*object*

aflow_conn_limit

Description

Type: number

aflow_queue_size

Description

Type: number

auto-nat-addr-list

Type: List

conn_rate_unit

Description

Type: string

curr_conn_rate

Description

Type: number

curr_observe_rate

Description

Type: number

current_time

Description

Type: number

diameter_enabled

Description

Type: number

disable

Description

Type: number

down_grace_period_allowed

Description

Type: number

down_time_grace_period

Description

Type: number

drs-auto-nat-list

Type: List

drs-ip-nat-list

Type: List

es_resp_time

Description

Type: number

hm-index

Description

Type: number

hm-key

Description

Type: number

inband_hm_reassign_num

Description

Type: number

nat-pool-addr-list

Type: List

pool_name

Description

Type: string

Format: string-rlx

resv_conn

Description

Type: number

slow_start_conn_limit

Description

Type: number

soft_down_time

Description

Type: number

state

Description

Type: string

Supported Values: Up, Down, Disabled, Maintenance, Unknown, DIS-UP, DIS-DOWN, DIS-MAINTENANCE, DIS-EXCEED-RATE, DIS-DAMP

port-list_oper_nat-pool-addr-list

Specification	Value
Type	*list*
Block object keys	

alloc_failed

Description

Type: number

nat_ip

Description

Type: string

ports_consumed

Description

Type: number

ports_consumed_total

Description

Type: number

ports_freed_total

Description

Type: number

port-list_oper_drs-ip-nat-list

Specification	Value
Type	*list*
Block object keys	

drs_name

Description

Type: string

drs_port

Description

Type: number

nat-pool-addr-list

Type: List

pool_name

Description

Type: string

Format: string-rlx

port-list_oper_drs-ip-nat-list_nat-pool-addr-list

Specification	Value
Type	*list*
Block object keys	

alloc_failed

Description

Type: number

nat_ip

Description

Type: string

ports_consumed

Description

Type: number

ports_consumed_total

Description

Type: number

ports_freed_total

Description

Type: number

port-list_oper_drs-auto-nat-list

Specification	Value
Type	*list*
Block object keys	

drs-auto-nat-address-list

Type: List

drs_name

Description

Type: string

drs_port

Description

Type: number

port-list_oper_drs-auto-nat-list_drs-auto-nat-address-list

Specification	Value
Type	*list*
Block object keys	

alloc_failed

Description

Type: number

auto_nat_ip

Description

Type: string

ha_group_id

Description

Type: number

ip_rr

Description

Type: number

ports_consumed

Description

Type: number

ports_consumed_total

Description

Type: number

ports_freed_total

Description

Type: number

vrid

Description

Type: number

port-list_oper_auto-nat-addr-list

Specification	Value
Type	*list*
Block object keys	

alloc_failed

Description

Type: number

auto_nat_ip

Description

Type: string

ha_group_id

Description

Type: number

ip_rr

Description

Type: number

ports_consumed

Description

Type: number

ports_consumed_total

Description

Type: number

ports_freed_total

Description

Type: number

vrid

Description

Type: number

2.26.325 cgnv6 server port

Real Server Port

port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-number, protocol*
Collection Name	*port-list*
Collection URI	/axapi/v3/cgnv6/server/{name}/port
Element Name	port
Element URI	/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}
Element Attributes	port_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}/stats
Operational Data URI	/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}/oper
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/server/{name}/port

port attributes

Create List

POST

/axapi/v3/cgnv6/server/{name}/port

port attributes

Get Object

GET

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}

port attributes

Get List

GET

/axapi/v3/cgnv6/server/{name}/port

port-list

Modify Object

POST

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}

port attributes

Replace Object

PUT

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}

port attributes

Replace List

PUT

/axapi/v3/cgnv6/server/{name}/port

port-list

Delete Object

DELETE

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}

port attributes

port-list

port-list is **JSON List** of *port attributes*

port-list : [

{ *port attributes* },

{ *port attributes* },

…

]

port attributes

action

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

follow-port-protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check, health-check-follow-port, and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable health check

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

health-check-follow-port

Description Specify which port to follow for health status (Port Number)

Type: number

Range: 1-65534

Mutual Exclusion: health-check-follow-port and health-check are mutually exclusive

port-number

Description Port Number

Type: number

Range: 0-65534

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr_conn': Current connections; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total request success; 'total_fwd_bytes': Forward bytes; 'total_fwd_pkts': Forward packets; 'total_rev_bytes': Reverse bytes; 'total_rev_pkts': Reverse packets; 'total_conn': Total connections; 'last_total_conn': Last total connections; 'peak_conn': Peak connections; 'es_resp_200': Response status 200; 'es_resp_300': Response status 300; 'es_resp_400': Response status 400; 'es_resp_500': Response status 500; 'es_resp_other': Response status other; 'es_req_count': Total proxy request; 'es_resp_count': Total proxy Response; 'es_resp_invalid_http': Total non-http response; 'total_rev_pkts_inspected': Total reverse packets inspected; 'total_rev_pkts_inspected_good_status_code': Total reverse packets with good status code inspected; 'response_time': Response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time;

Type: string

Supported Values: all, curr_conn, curr_req, total_req, total_req_succ, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_conn, last_total_conn, peak_conn, es_resp_200, es_resp_300, es_resp_400, es_resp_500, es_resp_other, es_req_count, es_resp_count, es_resp_invalid_http, total_rev_pkts_inspected, total_rev_pkts_inspected_good_status_code, response_time, fastest_rsp_time, slowest_rsp_time

2.26.326 cgnv6 server port oper

Operational Status for the object port

port Specification

Parameter	Value
Type	*Collection*
Collection Name	*port-list*
Collection URI	/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}
Element Name	port
Element URI	/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}/oper
Element Attributes	port_attributes
Partition Visibility	None
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}

port attributes

Create List

POST

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}

port attributes

Get Object

GET

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}/oper

port attributes

Get List

GET

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}

port-list

Modify Object

POST

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}/oper

port attributes

Replace Object

PUT

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}/oper

port attributes

Replace List

PUT

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}

port-list

Delete Object

DELETE

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}/oper

port attributes

port-list

port-list is **JSON List** of *port attributes*

port-list : [

{ *port attributes* },

{ *port attributes* },

...

]

port attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port-number

Description Port Number

Type: number

Range: 0-65534

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

oper

Specification	Value
Type	*object*

aflow_conn_limit

Description

Type: number

aflow_queue_size

Description

Type: number

auto-nat-addr-list

Type: List

conn_rate_unit

Description

Type: string

curr_conn_rate

Description

Type: number

curr_observe_rate

Description

Type: number

current_time

Description

Type: number

diameter_enabled

Description

Type: number

disable

Description

Type: number

down_grace_period_allowed

Description

Type: number

down_time_grace_period

Description

Type: number

drs-auto-nat-list

Type: List

drs-ip-nat-list

Type: List

es_resp_time

Description

Type: number

hm-index

Description

Type: number

hm-key

Description

Type: number

inband_hm_reassign_num

Description

Type: number

nat-pool-addr-list

Type: List

pool_name

Description

Type: string

Format: string-rlx

resv_conn

Description

Type: number

slow_start_conn_limit

Description

Type: number

soft_down_time

Description

Type: number

state

Description

Type: string

Supported Values: Up, Down, Disabled, Maintenance, Unknown, DIS-UP, DIS-DOWN, DIS-MAINTENANCE, DIS-EXCEED-RATE, DIS-DAMP

oper_nat-pool-addr-list

Specification	Value
Type	*list*
Block object keys	

alloc_failed

Description

Type: number

nat_ip

Description

Type: string

ports_consumed

Description

Type: number

ports_consumed_total

Description

Type: number

ports_freed_total

Description

Type: number

oper_drs-ip-nat-list

Specification	Value
Type	*list*
Block object keys	

drs_name

Description

Type: string

drs_port

Description

Type: number

nat-pool-addr-list

Type: List

pool_name

Description

Type: string

Format: string-rlx

oper_drs-ip-nat-list_nat-pool-addr-list

Specification	Value
Type	*list*
Block object keys	

alloc_failed

Description

Type: number

nat_ip

Description

Type: string

ports_consumed

Description

Type: number

ports_consumed_total

Description

Type: number

ports_freed_total

Description

Type: number

oper_drs-auto-nat-list

Specification	Value
Type	*list*
Block object keys	

drs-auto-nat-address-list

Type: List

drs_name

Description

Type: string

drs_port

Description

Type: number

oper_drs-auto-nat-list_drs-auto-nat-address-list

Specification	Value
Type	*list*
Block object keys	

alloc_failed

Description

Type: number

auto_nat_ip

Description

Type: string

ha_group_id

Description

Type: number

ip_rr

Description

Type: number

ports_consumed

Description

Type: number

ports_consumed_total

Description

Type: number

ports_freed_total

Description

Type: number

vrid

Description

Type: number

oper_auto-nat-addr-list

Specification	Value
Type	*list*
Block object keys	

alloc_failed

Description

Type: number

auto_nat_ip

Description

Type: string

ha_group_id

Description

Type: number

ip_rr

Description

Type: number

ports_consumed

Description

Type: number

ports_consumed_total

Description

Type: number

ports_freed_total

Description

Type: number

vrid

Description

Type: number

2.26.327 cgnv6 server port stats

Statistics for the object port

port Specification

Parameter	Value
Type	*Collection*
Collection Name	*port-list*
Collection URI	/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}
Element Name	port
Element URI	/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}/stats
Element Attributes	port_attributes
Partition Visibility	None
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}

port attributes

Create List

POST

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}

port attributes

Get Object

GET

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}/stats

port attributes

Get List

GET

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}

port-list

Modify Object

POST

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}/stats

port attributes

Replace Object

PUT

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}/stats

port attributes

Replace List

PUT

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}

port-list

Delete Object

DELETE

/axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}/stats

port attributes

port-list

port-list is **JSON List** of *port attributes*

port-list : [

{ *port attributes* },

{ *port attributes* },

...

]

port attributes

port-number

Description Port Number

Type: number

Range: 0-65534

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

curr_conn

Description Current connections

Type: number

Format: counter

curr_req

Description Current requests

Type: number

Format: counter

es_req_count

Description Total proxy request

Type: number

Format: counter

es_resp_200

Description Response status 200

Type: number

Format: counter

es_resp_300

Description Response status 300

Type: number

Format: counter

es_resp_400

Description Response status 400

Type: number

Format: counter

es_resp_500

Description Response status 500

Type: number

Format: counter

es_resp_count

Description Total proxy Response

Type: number

Format: counter

es_resp_invalid_http

Description Total non-http response

Type: number

Format: counter

es_resp_other

Description Response status other

Type: number

Format: counter

fastest_rsp_time

Description Fastest response time

Type: number

Format: counter

last_total_conn

Description Last total connections

Type: number

Format: counter

peak_conn

Description Peak connections

Type: number

Format: counter

response_time

Description Response time

Type: number

Format: counter

slowest_rsp_time

Description Slowest response time

Type: number

Format: counter

total_conn

Description Total connections

Type: number

Format: counter

total_fwd_bytes

Description Forward bytes

Type: number

Format: counter

total_fwd_pkts

Description Forward packets

Type: number

Format: counter

total_req

Description Total requests

Type: number

Format: counter

total_req_succ

Description Total request success

Type: number

Format: counter

total_rev_bytes

Description Reverse bytes

Type: number

Format: counter

total_rev_pkts

Description Reverse packets

Type: number

Format: counter

total_rev_pkts_inspected

Description Total reverse packets inspected

Type: number

Format: counter

total_rev_pkts_inspected_good_status_code

Description Total reverse packets with good status code inspected

Type: number

Format: counter

2.26.328 cgnv6 server stats

Statistics for the object server

server Specification

Parameter	Value
Type	*Collection*
Collection Name	*server-list*
Collection URI	/axapi/v3/cgnv6/server/{name}
Element Name	server
Element URI	/axapi/v3/cgnv6/server/{name}/stats
Element Attributes	server_attributes
Partition Visibility	None
Schema	`server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/server/{name}

server attributes

Create List

POST

/axapi/v3/cgnv6/server/{name}

server attributes

Get Object

GET

/axapi/v3/cgnv6/server/{name}/stats

server attributes

Get List

GET

/axapi/v3/cgnv6/server/{name}

server-list

Modify Object

POST

/axapi/v3/cgnv6/server/{name}/stats

server attributes

Replace Object

PUT

/axapi/v3/cgnv6/server/{name}/stats

server attributes

Replace List

PUT

/axapi/v3/cgnv6/server/{name}

server-list

Delete Object

DELETE

/axapi/v3/cgnv6/server/{name}/stats

server attributes

server-list

server-list is **JSON List** of *server attributes*

server-list : [

{ *server attributes* },

{ *server attributes* },

...

]

server attributes

name

Description Server Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

port-list

Type: List

Reference Object: */axapi/v3/cgnv6/server/{name}/port/{port-number}+{protocol}*

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

port-list

Specification	Value
Type	*list*
Block object keys	

port-number

Description Port Number

Type: number

Range: 0-65534

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

stats

Description: stats is a **JSON Block**. Please see below for *port-list_stats*

Type: Object

port-list_stats

Specification	Value
Type	*object*

curr_conn

Description Current connections

Type: number

Format: counter

curr_req

Description Current requests

Type: number

Format: counter

es_req_count

Description Total proxy request

Type: number

Format: counter

es_resp_200

Description Response status 200

Type: number

Format: counter

es_resp_300

Description Response status 300

Type: number

Format: counter

es_resp_400

Description Response status 400

Type: number

Format: counter

es_resp_500

Description Response status 500

Type: number

Format: counter

es_resp_count

Description Total proxy Response

Type: number

Format: counter

es_resp_invalid_http

Description Total non-http response

Type: number

Format: counter

es_resp_other

Description Response status other

Type: number

Format: counter

fastest_rsp_time

Description Fastest response time

Type: number

Format: counter

last_total_conn

Description Last total connections

Type: number

Format: counter

peak_conn

Description Peak connections

Type: number

Format: counter

response_time

Description Response time

Type: number

Format: counter

slowest_rsp_time

Description Slowest response time

Type: number

Format: counter

total_conn

Description Total connections

Type: number

Format: counter

total_fwd_bytes

Description Forward bytes

Type: number

Format: counter

total_fwd_pkts

Description Forward packets

Type: number

Format: counter

total_req

Description Total requests

Type: number

Format: counter

total_req_succ

Description Total request success

Type: number

Format: counter

total_rev_bytes

Description Reverse bytes

Type: number

Format: counter

total_rev_pkts

Description Reverse packets

Type: number

Format: counter

total_rev_pkts_inspected

Description Total reverse packets inspected

Type: number

Format: counter

total_rev_pkts_inspected_good_status_code

Description Total reverse packets with good status code inspected

Type: number

Format: counter

stats

Specification	Value
Type	*object*

curr-conn

Description Current connections

Type: number

Format: counter

fwd-pkt

Description Forward packets

Type: number

Format: counter

peak-conn

Description Peak connections

Type: number

Format: counter

rev-pkt

Description Reverse Packets

Type: number

Format: counter

total-conn

Description Total connections

Type: number

Format: counter

2.26.329 cgnv6 service-group

Service Group

service-group Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*service-group-list*
Collection URI	/axapi/v3/cgnv6/service-group
Element Name	service-group
Element URI	/axapi/v3/cgnv6/service-group/{name}
Element Attributes	service-group_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/service-group/{name}/stats
Operational Data URI	/axapi/v3/cgnv6/service-group/{name}/oper
Schema	`service-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/service-group

service-group attributes

```
POST /axapi/v3/cgnv6/service-group/
Payload:
{
    "service-group": {
        "protocol": "tcp",
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/service-group

service-group attributes

Get Object

GET

/axapi/v3/cgnv6/service-group/{name}

service-group attributes

```
GET /axapi/v3/cgnv6/service-group/a
Reponse:
{
    "service-group": {
        "name": "a",
        "protocol": "tcp",
        "shared": 0,
        "traffic-replication-mirror-ip-repl": 0,
        "uuid": "39a6d9ca-08b8-11f0-951d-a9cf5715f49c",
        "user-tag": "a",
        "a10-url": "/axapi/v3/cgnv6/service-group/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/service-group

service-group-list

Modify Object

POST

/axapi/v3/cgnv6/service-group/{name}

service-group attributes

Replace Object

PUT

/axapi/v3/cgnv6/service-group/{name}

service-group attributes

```
PUT /axapi/v3/cgnv6/service-group/a
Payload:
{
    "service-group": {
        "protocol": "tcp",
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/service-group

service-group-list

Delete Object

DELETE

/axapi/v3/cgnv6/service-group/{name}

service-group attributes

```
DELETE /axapi/v3/cgnv6/service-group/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

service-group-list

service-group-list is **JSON List** of *service-group attributes*

service-group-list : [

{ *service-group attributes* },

{ *service-group attributes* },

...

]

service-group attributes

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

member-list

Type: List

Reference Object: */axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}*

name

Description CGNV6 Service Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/cgnv6-serv-group-tmpl*

protocol

Description 'tcp': TCP LB service; 'udp': UDP LB service;

Type: string

Supported Values: tcp, udp

sampling-enable

Type: List

shared

Description Share with partition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

shared-group

Description Share with a partition group (Partition Group Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: shared-group and shared-partition are mutually exclusive

shared-partition

Description Share with a single partition (Partition Name)

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

Mutual Exclusion: shared-partition and shared-group are mutually exclusive

traffic-replication-mirror-ip-repl

Description Replaces IP with server-IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'server_selection_fail_drop': Service selection fail drop; 'server_selection_fail_reset': Service selection fail reset; 'service_peak_conn': Service peak connection;

Type: string

Supported Values: all, server_selection_fail_drop, server_selection_fail_reset, service_peak_conn

member-list

Specification	Value
Type	*list*
Block object keys	

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 127 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/server*

port

Description Port number

Type: number

Range: 0-65534

Default: 65534

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

member-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr_conn': Current connections; 'total_fwd_bytes': Total forward bytes; 'total_fwd_pkts': Total forward packets; 'total_rev_bytes': Total reverse bytes; 'total_rev_pkts': Total reverse packets; 'total_conn': Total connections; 'total_rev_pkts_inspected': Total reverse packets inspected; 'total_rev_pkts_inspected_status_code_2xx': Total reverse packets inspected status code 2xx; 'total_rev_pkts_inspected_status_code_non_5xx': Total reverse packets inspected status code non 5xx; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total requests success; 'peak_conn': Peak connections; 'response_time': Response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time; 'curr_ssl_conn': Current SSL connections; 'total_ssl_conn': Total SSL connections; 'curr_conn_overflow': Current connection counter overflow count; 'state_flaps': State flaps count;

Type: string

Supported Values: all, curr_conn, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_conn, total_rev_pkts_inspected, total_rev_pkts_inspected_status_code_2xx, total_rev_pkts_inspected_status_code_non_5xx,

curr_req, total_req, total_req_succ, peak_conn, response_time, fastest_rsp_time, slowest_rsp_time, curr_ssl_conn, total_ssl_conn, curr_conn_overflow, state_flaps

2.26.330 cgnv6 service-group member

Service Group Member

member Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name, port*
Collection Name	*member-list*
Collection URI	/axapi/v3/cgnv6/service-group/{name}/member
Element Name	member
Element URI	/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}
Element Attributes	member_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}/stats
Operational Data URI	/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}/oper
Schema	`member schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/service-group/{name}/member

member attributes

Create List

POST

/axapi/v3/cgnv6/service-group/{name}/member

member attributes

Get Object

GET

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}

member attributes

Get List

GET

/axapi/v3/cgnv6/service-group/{name}/member

member-list

Modify Object

POST

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}

member attributes

Replace Object

PUT

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}

member attributes

Replace List

PUT

/axapi/v3/cgnv6/service-group/{name}/member

member-list

Delete Object

DELETE

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}

member attributes

member-list

member-list is **JSON List** of *member attributes*

```
member-list : [
        { member attributes },
        { member attributes },
        ...
    ]
```

member attributes

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 127 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/cgnv6/server*

port

Description Port number

Type: number

Range: 0-65534

Default: 65534

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr_conn': Current connections; 'total_fwd_bytes': Total forward bytes; 'total_fwd_pkts': Total forward packets; 'total_rev_bytes': Total reverse bytes; 'total_rev_pkts': Total reverse packets; 'total_conn': Total connections; 'total_rev_pkts_inspected': Total reverse packets inspected; 'total_rev_pkts_inspected_status_code_2xx': Total reverse packets inspected status code 2xx; 'total_rev_pkts_inspected_status_code_non_5xx': Total reverse packets inspected status code non 5xx; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total requests success; 'peak_conn': Peak connections; 'response_time': Response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time; 'curr_ssl_conn': Current SSL connections; 'total_ssl_conn': Total SSL connections; 'curr_conn_overflow': Current connection counter overflow count; 'state_flaps': State flaps count;

Type: string

Supported Values: all, curr_conn, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_conn, total_rev_pkts_inspected, total_rev_pkts_inspected_status_code_2xx, total_rev_pkts_inspected_status_code_non_5xx, curr_req, total_req, total_req_succ, peak_conn, response_time, fastest_rsp_time, slowest_rsp_time, curr_ssl_conn, total_ssl_conn, curr_conn_overflow, state_flaps

2.26.331 cgnv6 service-group member oper

Operational Status for the object member

member Specification

Parameter	Value
Type	*Collection*
Collection Name	*member-list*
Collection URI	/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}
Element Name	member
Element URI	/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}/oper
Element Attributes	member_attributes
Partition Visibility	None
Schema	`member schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}

member attributes

Create List

POST

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}

member attributes

Get Object

GET

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}/oper

member attributes

Get List

GET

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}

member-list

Modify Object

POST

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}/oper

member attributes

Replace Object

PUT

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}/oper

member attributes

Replace List

PUT

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}

member-list

Delete Object

DELETE

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}/oper

member attributes

member-list

member-list is **JSON List** of *member attributes*

member-list : [

{ *member attributes* },

{ *member attributes* },

...

]

member attributes

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 127 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port

Description Port number

Type: number

Range: 0-65534

Default: 65534

oper

Specification	Value
Type	*object*

alt-list

Type: List

drs-list

Type: List

hm-index

Description

Type: number

hm-key

Description

Type: number

state

Description

Type: string

Supported Values: UP, DOWN, MAINTENANCE, DIS-UP, DIS-DOWN, DIS-MAINTENANCE, DIS-DAMP

oper_alt-list

Specification	Value
Type	*list*
Block object keys	

alt-curr-conn

Description

Type: number

alt-fwd-pkts

Description

Type: number

alt-name

Description

Type: string

alt-peak-conn

Description

Type: number

alt-port

Description

Type: number

alt-rev-pkts

Description

Type: number

alt-state

Description

Type: string

alt-total-conn

Description

Type: number

oper_drs-list

Specification	Value
Type	*list*
Block object keys	

drs-curr-conn

Description

Type: number

drs-curr-req

Description

Type: number

drs-frsp-time

Description

Type: number

drs-fwd-bts

Description

Type: number

drs-fwd-pkts

Description

Type: number

drs-hm-index

Description

Type: number

drs-hm-key

Description

Type: number

drs-name

Description

Type: string

drs-peak-conn

Description

Type: number

drs-pers-conn

Description

Type: number

drs-port

Description

Type: number

drs-priority

Description

Type: number

drs-rev-bts

Description

Type: number

drs-rev-pkts

Description

Type: number

drs-rsp-time

Description

Type: number

drs-srsp-time

Description

Type: number

drs-state

Description

Type: string

drs-total-conn

Description

Type: number

drs-total-req

Description

Type: number

drs-total-req-succ

Description

Type: number

2.26.332 cgnv6 service-group member stats

Statistics for the object member

member Specification

Parameter	Value
Type	*Collection*
Collection Name	*member-list*
Collection URI	/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}
Element Name	member
Element URI	/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}/stats
Element Attributes	member_attributes
Partition Visibility	None
Schema	`member schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}

member attributes

Create List

POST

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}

member attributes

Get Object

GET

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}/stats

member attributes

Get List

GET

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}

member-list

Modify Object

POST

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}/stats

member attributes

Replace Object

PUT

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}/stats

member attributes

Replace List

PUT

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}

member-list

Delete Object

DELETE

/axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}/stats

member attributes

member-list

member-list is **JSON List** of *member attributes*

member-list : [

{ *member attributes* },

{ *member attributes* },

...

]

member attributes

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 127 characters

Maximum Length: 1 characters

port

Description Port number

Type: number

Range: 0-65534

Default: 65534

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

curr_conn

Description Current connections

Type: number

Format: counter

curr_conn_overflow

Description Current connection counter overflow count

Type: number

Format: counter

curr_req

Description Current requests

Type: number

Format: counter

curr_ssl_conn

Description Current SSL connections

Type: number

Format: counter

fastest_rsp_time

Description Fastest response time

Type: number

Format: counter

peak_conn

Description Peak connections

Type: number

Format: counter

response_time

Description Response time

Type: number

Format: counter

slowest_rsp_time

Description Slowest response time

Type: number

Format: counter

state_flaps

Description State flaps count

Type: number

Format: counter

total_conn

Description Total connections

Type: number

Format: counter

total_fwd_bytes

Description Total forward bytes

Type: number

Format: counter

total_fwd_pkts

Description Total forward packets

Type: number

Format: counter

total_req

Description Total requests

Type: number

Format: counter

total_req_succ

Description Total requests success

Type: number

Format: counter

total_rev_bytes

Description Total reverse bytes

Type: number

Format: counter

total_rev_pkts

Description Total reverse packets

Type: number

Format: counter

total_rev_pkts_inspected

Description Total reverse packets inspected

Type: number

Format: counter

total_rev_pkts_inspected_status_code_2xx

Description Total reverse packets inspected status code 2xx

Type: number

Format: counter

total_rev_pkts_inspected_status_code_non_5xx

Description Total reverse packets inspected status code non 5xx

Type: number

Format: counter

total_ssl_conn

Description Total SSL connections

Type: number

Format: counter

2.26.333 cgnv6 service-group oper

Operational Status for the object service-group

service-group Specification

Parameter	Value
Type	*Collection*
Collection Name	*service-group-list*
Collection URI	/axapi/v3/cgnv6/service-group/{name}
Element Name	service-group
Element URI	/axapi/v3/cgnv6/service-group/{name}/oper
Element Attributes	service-group_attributes
Partition Visibility	None
Schema	`service-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/service-group/{name}

service-group attributes

Create List

POST

/axapi/v3/cgnv6/service-group/{name}

service-group attributes

Get Object

GET

/axapi/v3/cgnv6/service-group/{name}/oper

service-group attributes

Get List

GET

/axapi/v3/cgnv6/service-group/{name}

service-group-list

Modify Object

POST

/axapi/v3/cgnv6/service-group/{name}/oper

service-group attributes

Replace Object

PUT

/axapi/v3/cgnv6/service-group/{name}/oper

service-group attributes

Replace List

PUT

/axapi/v3/cgnv6/service-group/{name}

service-group-list

Delete Object

DELETE

/axapi/v3/cgnv6/service-group/{name}/oper

service-group attributes

service-group-list

service-group-list is **JSON List** of *service-group attributes*

service-group-list : [

{ *service-group attributes* },

{ *service-group attributes* },

...

]

service-group attributes

member-list

Type: List

Reference Object: */axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}*

name

Description CGNV6 Service Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

filter

Description

Type: string

Supported Values: sgm-sort-config

hm_dsr_enable_all_vip

Description

Type: number

pri_affinity_priority

Description

Type: number

servers_disable

Description

Type: number

servers_down

Description

Type: number

servers_total

Description

Type: number

servers_up

Description

Type: number

sgm-list

Type: List

state

Description

Type: string

Supported Values: All Up, Functional Up, Down, Disb, Unkn

stateless_current_rate

Description

Type: number

stateless_current_usage

Description

Type: number

stateless_state

Description

Type: number

stateless_type

Description

Type: number

oper_sgm-list

Specification	Value
Type	*list*
Block object keys	

sgm-name

Description

Type: string

sgm-port

Description

Type: number

member-list

Specification	Value
Type	*list*
Block object keys	

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 127 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *member-list_oper*

Type: Object

port

Description Port number

Type: number

Range: 0-65534

Default: 65534

member-list_oper

Specification	Value
Type	*object*

alt-list

Type: List

drs-list

Type: List

hm-index

Description

Type: number

hm-key

Description

Type: number

state

Description

Type: string

Supported Values: UP, DOWN, MAINTENANCE, DIS-UP, DIS-DOWN, DIS-MAINTENANCE, DIS-DAMP

member-list_oper_alt-list

Specification	Value
Type	*list*
Block object keys	

alt-curr-conn

Description

Type: number

alt-fwd-pkts

Description

Type: number

alt-name

Description

Type: string

alt-peak-conn

Description

Type: number

alt-port

Description

Type: number

alt-rev-pkts

Description

Type: number

alt-state

Description

Type: string

alt-total-conn

Description

Type: number

member-list_oper_drs-list

Specification	Value
Type	*list*
Block object keys	

drs-curr-conn

Description

Type: number

drs-curr-req

Description

Type: number

drs-frsp-time

Description

Type: number

drs-fwd-bts

Description

Type: number

drs-fwd-pkts

Description

Type: number

drs-hm-index

Description

Type: number

drs-hm-key

Description

Type: number

drs-name

Description

Type: string

drs-peak-conn

Description

Type: number

drs-pers-conn

Description

Type: number

drs-port

Description

Type: number

drs-priority

Description

Type: number

drs-rev-bts

Description

Type: number

drs-rev-pkts

Description

Type: number

drs-rsp-time

Description

Type: number

drs-srsp-time

Description

Type: number

drs-state

Description

Type: string

drs-total-conn

Description

Type: number

drs-total-req

Description

Type: number

drs-total-req-succ

Description

Type: number

2.26.334 cgnv6 service-group stats

Statistics for the object service-group

service-group Specification

Parameter	Value
Type	*Collection*
Collection Name	*service-group-list*
Collection URI	/axapi/v3/cgnv6/service-group/{name}
Element Name	service-group
Element URI	/axapi/v3/cgnv6/service-group/{name}/stats
Element Attributes	service-group_attributes
Partition Visibility	None
Schema	`service-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/service-group/{name}

service-group attributes

Create List

POST

/axapi/v3/cgnv6/service-group/{name}

service-group attributes

Get Object

GET

/axapi/v3/cgnv6/service-group/{name}/stats

service-group attributes

Get List

GET

/axapi/v3/cgnv6/service-group/{name}

service-group-list

Modify Object

POST

/axapi/v3/cgnv6/service-group/{name}/stats

service-group attributes

Replace Object

PUT

/axapi/v3/cgnv6/service-group/{name}/stats

service-group attributes

Replace List

PUT

/axapi/v3/cgnv6/service-group/{name}

service-group-list

Delete Object

DELETE

/axapi/v3/cgnv6/service-group/{name}/stats

service-group attributes

service-group-list

service-group-list is **JSON List** of *service-group attributes*

service-group-list : [

{ *service-group attributes* },

{ *service-group attributes* },

...

]

service-group attributes

member-list

Type: List

Reference Object: */axapi/v3/cgnv6/service-group/{name}/member/{name}+{port}*

name

Description CGNV6 Service Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

member-list

Specification	Value
Type	*list*
Block object keys	

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 127 characters

Maximum Length: 1 characters

port

Description Port number

Type: number

Range: 0-65534

Default: 65534

stats

Description: stats is a **JSON Block**. Please see below for *member-list_stats*

Type: Object

member-list_stats

Specification	Value
Type	*object*

curr_conn

Description Current connections

Type: number

Format: counter

curr_conn_overflow

Description Current connection counter overflow count

Type: number

Format: counter

curr_req

Description Current requests

Type: number

Format: counter

curr_ssl_conn

Description Current SSL connections

Type: number

Format: counter

fastest_rsp_time

Description Fastest response time

Type: number

Format: counter

peak_conn

Description Peak connections

Type: number

Format: counter

response_time

Description Response time

Type: number

Format: counter

slowest_rsp_time

Description Slowest response time

Type: number

Format: counter

state_flaps

Description State flaps count

Type: number

Format: counter

total_conn

Description Total connections

Type: number

Format: counter

total_fwd_bytes

Description Total forward bytes

Type: number

Format: counter

total_fwd_pkts

Description Total forward packets

Type: number

Format: counter

total_req

Description Total requests

Type: number

Format: counter

total_req_succ

Description Total requests success

Type: number

Format: counter

total_rev_bytes

Description Total reverse bytes

Type: number

Format: counter

total_rev_pkts

Description Total reverse packets

Type: number

Format: counter

total_rev_pkts_inspected

Description Total reverse packets inspected

Type: number

Format: counter

total_rev_pkts_inspected_status_code_2xx

Description Total reverse packets inspected status code 2xx

Type: number

Format: counter

total_rev_pkts_inspected_status_code_non_5xx

Description Total reverse packets inspected status code non 5xx

Type: number

Format: counter

total_ssl_conn

Description Total SSL connections

Type: number

Format: counter

stats

Specification	Value
Type	*object*

server_selection_fail_drop

Description Service selection fail drop

Type: number

Format: counter

server_selection_fail_reset

Description Service selection fail reset

Type: number

Format: counter

service_peak_conn

Description Service peak connection

Type: number

Format: counter

2.26.335 cgnv6 shared-service-group

CGNv6 Shared Service Group

shared-service-group Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	shared-service-group
Element URI	/axapi/v3/cgnv6/shared-service-group
Element Attributes	shared-service-group_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cgnv6/shared-service-group/oper
Schema	`shared-service-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/shared-service-group

shared-service-group attributes

Get Object

GET

/axapi/v3/cgnv6/shared-service-group

shared-service-group attributes

Modify Object

POST

/axapi/v3/cgnv6/shared-service-group

shared-service-group attributes

Replace Object

PUT

/axapi/v3/cgnv6/shared-service-group

shared-service-group attributes

Delete Object

DELETE

/axapi/v3/cgnv6/shared-service-group

shared-service-group attributes

shared-service-group attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.336 cgnv6 shared-service-group oper

Operational Status for the object shared-service-group

shared-service-group Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	shared-service-group
Element URI	/axapi/v3/cgnv6/shared-service-group/oper
Element Attributes	shared-service-group_attributes
Partition Visibility	None
Schema	`shared-service-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/shared-service-group/oper

shared-service-group attributes

Get Object

GET

/axapi/v3/cgnv6/shared-service-group/oper

shared-service-group attributes

Modify Object

POST

/axapi/v3/cgnv6/shared-service-group/oper

shared-service-group attributes

Replace Object

PUT

/axapi/v3/cgnv6/shared-service-group/oper

shared-service-group attributes

Delete Object

DELETE

/axapi/v3/cgnv6/shared-service-group/oper

shared-service-group attributes

shared-service-group attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

shared-service-group-list

Type: List

oper_shared-service-group-list

Specification	Value
Type	*list*
Block object keys	

service-group-name

Description

Type: string

2.26.337 cgnv6 sixrd

Configure IPv6 Rapid Deployment (sixrd)

sixrd Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	sixrd
Element URI	/axapi/v3/cgnv6/sixrd
Element Attributes	sixrd_attributes
Partition Visibility	shared
Schema	`sixrd schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/sixrd

sixrd_attributes

sixrd attributes

domain-list

Type: List

Reference Object: */axapi/v3/cgnv6/sixrd/domain/{name}*

fragmentation

Description: fragmentation is a **JSON Block**. Please see below for *fragmentation*

Type: Object

Reference Object: */axapi/v3/cgnv6/sixrd/fragmentation*

domain-list

Specification	Value
Type	*list*
Block object keys	

br-ipv4-address

Description 6rd BR IPv4 address

Type: string

Format: ipv4-address

ce-ipv4-netmask

Description Mask length

Type: string

Format: ipv4-netmask-brief

ce-ipv4-network

Description Customer Edge IPv4 network

Type: string

Format: ipv4-address

ipv6-prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

mtu

Description Tunnel MTU

Type: number

Range: 1280-1480

name

Description 6rd Domain name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'outbound-tcp-packets-received': Outbound TCP packets received; 'outbound-udp-packets-received': Outbound UDP packets received; 'outbound-icmp-packets-received': Outbound ICMP packets received; 'outbound-other-packets-received': Outbound other packets received; 'outbound-packets-drop': Outbound packets dropped; 'outbound-ipv6-dest-unreachable': Outbound IPv6 destination unreachable; 'outbound-fragment-ipv6': Outbound Fragmented IPv6; 'inbound-tcp-packets-received': Inbound TCP packets received; 'inbound-udp-packets-received': Inbound UDP packets received; 'inbound-icmp-packets-received': Inbound ICMP packets received; 'inbound-other-packets-received': Inbound other packets received; 'inbound-packets-drop': Inbound packets dropped; 'inbound-ipv4-dest-unreachable': Inbound IPv4 destination unreachable; 'inbound-fragment-ipv4': Inbound Fragmented IPv4; 'inbound-tunnel-fragment-ipv6': Inbound Fragmented IPv6 in tunnel; 'vport-matched': Traffic match SLB virtual port; 'unknown-delegated-prefix': Unknown 6rd delegated prefix; 'packet-too-big': Packet too big; 'not-local-ip': Not local IP; 'fragment-error': Fragment processing errors; 'other-error': Other errors;

Type: string

Supported Values: all, outbound-tcp-packets-received, outbound-udp-packets-received, outbound-icmp-packets-received, outbound-other-packets-received, outbound-packets-drop, outbound-ipv6-dest-unreachable, outbound-fragment-ipv6, inbound-tcp-packets-received, inbound-udp-packets-received, inbound-icmp-packets-received, inbound-other-packets-received, inbound-packets-drop, inbound-ipv4-dest-unreachable, inbound-fragment-ipv4, inbound-tunnel-fragment-ipv6, vport-matched, unknown-delegated-prefix, packet-too-big, not-local-ip, fragment-error, other-error

fragmentation

Specification	Value
Type	*object*

inbound

Description: inbound is a **JSON Block**. Please see below for *fragmentation_inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/sixrd/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *fragmentation_outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/sixrd/fragmentation/outbound*

fragmentation_inbound

Specification	Value
Type	*object*

action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 Fragmentation for oversize packets; 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmpv6

Default: send-icmpv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fragmentation_outbound

Specification	Value
Type	*object*

action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets (default); 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv6, send-icmp, send-icmpv6

Default: ipv6

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv6, send-icmp, send-icmpv6

Default: send-icmp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.338 cgnv6 sixrd domain

sixrd Domain

domain Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*domain-list*
Collection URI	/axapi/v3/cgnv6/sixrd/domain
Element Name	domain
Element URI	/axapi/v3/cgnv6/sixrd/domain/{name}
Element Attributes	domain_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/sixrd/domain/{name}/stats
Schema	`domain schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/sixrd/domain

domain attributes

```
POST /axapi/v3/cgnv6/sixrd/domain/
Payload:
{
    "domain": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/sixrd/domain

domain attributes

Get Object

GET

/axapi/v3/cgnv6/sixrd/domain/{name}

domain attributes

```
GET /axapi/v3/cgnv6/sixrd/domain/a
Reponse:
{
    "domain": {
        "name": "a",
        "uuid": "e6dacb2e-08b8-11f0-951d-a9cf5715f49c",
        "user-tag": "a",
        "a10-url": "/axapi/v3/cgnv6/sixrd/domain/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/sixrd/domain

domain-list

Modify Object

POST

/axapi/v3/cgnv6/sixrd/domain/{name}

domain attributes

Replace Object

PUT

/axapi/v3/cgnv6/sixrd/domain/{name}

domain attributes

```
PUT /axapi/v3/cgnv6/sixrd/domain/a
Payload:
{
    "domain": {
        "name": "a",
        "user-tag": "abc"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/sixrd/domain

domain-list

Delete Object

DELETE

/axapi/v3/cgnv6/sixrd/domain/{name}

domain attributes

```
DELETE /axapi/v3/cgnv6/sixrd/domain/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

domain-list

domain-list is **JSON List** of *domain attributes*

domain-list : [

{ *domain attributes* },

{ *domain attributes* },

...

]

domain attributes

br-ipv4-address

Description 6rd BR IPv4 address

Type: string

Format: ipv4-address

ce-ipv4-netmask

Description Mask length

Type: string

Format: ipv4-netmask-brief

ce-ipv4-network

Description Customer Edge IPv4 network

Type: string

Format: ipv4-address

ipv6-prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

mtu

Description Tunnel MTU

Type: number

Range: 1280-1480

name

Description 6rd Domain name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'outbound-tcp-packets-received': Outbound TCP packets received; 'outbound-udp-packets-received': Outbound UDP packets received; 'outbound-icmp-packets-received': Outbound ICMP packets received; 'outbound-other-packets-received': Outbound other packets received; 'outbound-packets-drop': Outbound packets dropped; 'outbound-ipv6-dest-unreachable': Outbound IPv6 destination unreachable; 'outbound-fragment-ipv6': Outbound Fragmented IPv6; 'inbound-tcp-packets-received': Inbound TCP packets received; 'inbound-udp-packets-received': Inbound UDP packets received; 'inbound-icmp-packets-received': Inbound ICMP packets received; 'inbound-other-packets-received': Inbound other packets received; 'inbound-packets-drop': Inbound packets dropped; 'inbound-ipv4-dest-unreachable': Inbound IPv4 destination unreachable; 'inbound-fragment-ipv4': Inbound Fragmented IPv4; 'inbound-tunnel-fragment-ipv6': Inbound Fragmented IPv6 in tunnel; 'vport-matched': Traffic match SLB virtual port; 'unknown-delegated-prefix': Unknown 6rd delegated prefix; 'packet-too-big': Packet too big; 'not-local-ip': Not local IP; 'fragment-error': Fragment processing errors; 'other-error': Other errors;

Type: string

Supported Values: all, outbound-tcp-packets-received, outbound-udp-packets-received, outbound-icmp-packets-received, outbound-other-packets-received, outbound-packets-drop, outbound-ipv6-dest-unreachable, outbound-fragment-ipv6, inbound-tcp-packets-received, inbound-udp-packets-received, inbound-icmp-packets-received, inbound-other-packets-received, inbound-packets-drop, inbound-ipv4-dest-unreachable, inbound-fragment-ipv4, inbound-tunnel-fragment-ipv6, vport-matched, unknown-delegated-prefix, packet-too-big, not-local-ip, fragment-error, other-error

2.26.339 cgnv6 sixrd domain stats

Statistics for the object domain

domain Specification

Parameter	Value
Type	*Collection*
Collection Name	*domain-list*
Collection URI	/axapi/v3/cgnv6/sixrd/domain/{name}
Element Name	domain
Element URI	/axapi/v3/cgnv6/sixrd/domain/{name}/stats
Element Attributes	domain_attributes
Partition Visibility	None
Schema	`domain schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/sixrd/domain/{name}

domain attributes

Create List

POST

/axapi/v3/cgnv6/sixrd/domain/{name}

domain attributes

Get Object

GET

/axapi/v3/cgnv6/sixrd/domain/{name}/stats

domain attributes

Get List

GET

/axapi/v3/cgnv6/sixrd/domain/{name}

domain-list

Modify Object

POST

/axapi/v3/cgnv6/sixrd/domain/{name}/stats

domain attributes

Replace Object

PUT

/axapi/v3/cgnv6/sixrd/domain/{name}/stats

domain attributes

Replace List

PUT

/axapi/v3/cgnv6/sixrd/domain/{name}

domain-list

Delete Object

DELETE

/axapi/v3/cgnv6/sixrd/domain/{name}/stats

domain attributes

domain-list

domain-list is **JSON List** of *domain attributes*

domain-list : [

{ *domain attributes* },

{ *domain attributes* },

…

]

domain attributes

name

Description 6rd Domain name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

fragment-error

Description Fragment processing errors

Type: number

Format: counter

inbound-fragment-ipv4

Description Inbound Fragmented IPv4

Type: number

Format: counter

inbound-icmp-packets-received

Description Inbound ICMP packets received

Type: number

Format: counter

inbound-ipv4-dest-unreachable

Description Inbound IPv4 destination unreachable

Type: number

Format: counter

inbound-other-packets-received

Description Inbound other packets received

Type: number

Format: counter

inbound-packets-drop

Description Inbound packets dropped

Type: number

Format: counter

inbound-tcp-packets-received

Description Inbound TCP packets received

Type: number

Format: counter

inbound-tunnel-fragment-ipv6

Description Inbound Fragmented IPv6 in tunnel

Type: number

Format: counter

inbound-udp-packets-received

Description Inbound UDP packets received

Type: number

Format: counter

not-local-ip

Description Not local IP

Type: number

Format: counter

other-error

Description Other errors

Type: number

Format: counter

outbound-fragment-ipv6

Description Outbound Fragmented IPv6

Type: number

Format: counter

outbound-icmp-packets-received

Description Outbound ICMP packets received

Type: number

Format: counter

outbound-ipv6-dest-unreachable

Description Outbound IPv6 destination unreachable

Type: number

Format: counter

outbound-other-packets-received

Description Outbound other packets received

Type: number

Format: counter

outbound-packets-drop

Description Outbound packets dropped

Type: number

Format: counter

outbound-tcp-packets-received

Description Outbound TCP packets received

Type: number

Format: counter

outbound-udp-packets-received

Description Outbound UDP packets received

Type: number

Format: counter

packet-too-big

Description Packet too big

Type: number

Format: counter

unknown-delegated-prefix

Description Unknown 6rd delegated prefix

Type: number

Format: counter

vport-matched

Description Traffic match SLB virtual port

Type: number

Format: counter

2.26.340 cgnv6 sixrd fragmentation

sixrd fragmentation parameters

fragmentation Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	fragmentation
Element URI	/axapi/v3/cgnv6/sixrd/fragmentation
Element Attributes	fragmentation_attributes
Partition Visibility	shared
Schema	`fragmentation schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/sixrd/fragmentation

fragmentation_attributes

fragmentation attributes

inbound

Description: inbound is a **JSON Block**. Please see below for *inbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/sixrd/fragmentation/inbound*

outbound

Description: outbound is a **JSON Block**. Please see below for *outbound*

Type: Object

Reference Object: */axapi/v3/cgnv6/sixrd/fragmentation/outbound*

inbound

Specification	Value
Type	*object*

action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 Fragmentation for oversize packets; 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmpv6

Default: send-icmpv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound

Specification	Value
Type	*object*

action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets (default); 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv6, send-icmp, send-icmpv6

Default: ipv6

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv6, send-icmp, send-icmpv6

Default: send-icmp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.341 cgnv6 sixrd fragmentation inbound

6rd fragmentation rules for inbound oversize packets (default: send-icmpv6)

inbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	inbound
Element URI	/axapi/v3/cgnv6/sixrd/fragmentation/inbound
Element Attributes	inbound_attributes
Partition Visibility	shared
Schema	`inbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/sixrd/fragmentation/inbound

inbound attributes

```
POST /axapi/v3/cgnv6/sixrd/fragmentation/inbound
Payload:
{
    "inbound": {
        "action": "drop"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/sixrd/fragmentation/inbound

inbound attributes

```
GET /axapi/v3/cgnv6/sixrd/fragmentation/inbound
Reponse:
{
```

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```
    "inbound": {
        "action": "drop",
        "uuid": "c5ed3442-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/sixrd/fragmentation/inbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/sixrd/fragmentation/inbound

inbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/sixrd/fragmentation/inbound

inbound attributes

```
PUT /axapi/v3/cgnv6/sixrd/fragmentation/inbound
Payload:
{
    "inbound": {
        "action": "drop"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/sixrd/fragmentation/inbound

inbound attributes

```
DELETE /axapi/v3/cgnv6/sixrd/fragmentation/inbound
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

inbound attributes

action

Description 'drop': Drop Silently; 'ipv4': Use IPv4 fragmentation for oversize packets; 'ipv6': Use IPv6 Fragmentation for oversize packets; 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big) (default);

Type: string

Supported Values: drop, ipv4, ipv6, send-icmpv6

Default: send-icmpv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.342 cgnv6 sixrd fragmentation outbound

sixrd fragmentation rules for outbound oversize packets (default: ipv6)

outbound Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	outbound
Element URI	/axapi/v3/cgnv6/sixrd/fragmentation/outbound
Element Attributes	outbound_attributes
Partition Visibility	shared
Schema	`outbound schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/sixrd/fragmentation/outbound

outbound attributes

```
POST /axapi/v3/cgnv6/sixrd/fragmentation/outbound
Payload:
{
    "outbound": {
        "df-set": "send-icmp",
        "count": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/sixrd/fragmentation/outbound

outbound attributes

```
GET /axapi/v3/cgnv6/sixrd/fragmentation/outbound
Reponse:
{
    "outbound": {
        "df-set": "send-icmp",
        "count": 1,
        "action": "ipv6",
        "uuid": "c5ed34ec-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/sixrd/fragmentation/outbound"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/sixrd/fragmentation/outbound

outbound attributes

Replace Object

PUT

/axapi/v3/cgnv6/sixrd/fragmentation/outbound

outbound attributes

```
PUT /axapi/v3/cgnv6/sixrd/fragmentation/outbound
Payload:
{
    "outbound": {
        "df-set": "send-icmpv6",
        "count": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/sixrd/fragmentation/outbound

outbound attributes

```
DELETE /axapi/v3/cgnv6/sixrd/fragmentation/outbound
Reponse:
{
    "response": {
```

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```
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

outbound attributes

action

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets (default); 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv6, send-icmp, send-icmpv6

Default: ipv6

count

Description Configure number of ICMP messages sent when DF set. Default is 1

Type: number

Range: 1-5

df-set

Description 'drop': Drop Silently; 'ipv6': Use IPv6 Fragmentation for oversize packets; 'send-icmp': Send ICMP Type 3 Code 4 (Fragmentation Needed and DF Set) (default); 'send-icmpv6': Send ICMP Type 2 Code 0 (Packet Too Big);

Type: string

Supported Values: drop, ipv6, send-icmp, send-icmpv6

Default: send-icmp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.343 cgnv6 stateful-firewall

Stateful Firewall Configuration

stateful-firewall Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	stateful-firewall
Element URI	/axapi/v3/cgnv6/stateful-firewall
Element Attributes	stateful-firewall_attributes
Partition Visibility	shared
Schema	`stateful-firewall schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall

stateful-firewall_attributes

stateful-firewall attributes

alg

Description: alg is a **JSON Block**. Please see below for *alg*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg*

endpoint-independent-filtering

Description: endpoint-independent-filtering is a **JSON Block**. Please see below for *endpoint-independent-filtering*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering*

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/global*

stun-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/stun-timeout/{port}+{port-end}*

tcp

Description: tcp is a **JSON Block**. Please see below for *tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/udp*

vrid

Description: vrid is a **JSON Block**. Please see below for *vrid*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/vrid*

udp

Specification	Value
Type	*object*

idle-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout/{port}+{port-end}*

stun-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout/{port}+{port-end}*

udp_stun-timeout-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

stun-timeout-val-port-range

Description STUN timeout (default: 2 minutes)

Type: number

Range: 0-60

Default: 2

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

udp_idle-timeout-list

Specification	Value
Type	*list*
Block object keys	

fast

Description Fast aging for idle sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: fast and idle-timeout-val-port-range are mutually exclusive

idle-timeout-val-port-range

Description Idle timeout for IPv4 and IPv6 TCP established sessions (Idle timeout for IPv4 and IPv6 TCP established sessions (default: 300 seconds))

Type: number

Range: 60-15000

Default: 300

Mutual Exclusion: idle-timeout-val-port-range and fast are mutually exclusive

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid-value

Description Set VRRP-A vrid for stateful firewall (IPv4 and IPv6)

Type: number

Range: 1-31

alg

Specification	Value
Type	*object*

ftp

Description: ftp is a **JSON Block**. Please see below for *alg_ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/ftp*

pptp

Description: pptp is a **JSON Block**. Please see below for *alg_pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/pptp*

rtp

Description: rtp is a **JSON Block**. Please see below for *alg_rtp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/rtp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *alg_rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *alg_sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *alg_tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/tftp*

alg_ftp

Specification	Value
Type	*object*

ftp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_ftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'client-port-request': PORT Requests From Client; 'client-eprt-request': EPRT Requests From Client; 'server-pasv-reply': PASV Replies From Server; 'server-epsv-reply': EPSV Replies From Server; 'port-retransmits': PORT Retransmits; 'pasv-retransmits': PASV Retransmits; 'smp-app-type-mismatch': SMP App Type Mismatch; 'retransmit-sanity-check-failure': Retransmit Sanity Check Failure; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'port-helper-created': PORT Helper Created; 'pasv-helper-created': PASV Helper Created; 'port-helper-acquire-in-del-q': PORT Helper Acquire In Del Queue; 'port-helper-acquire-already-used': PORT Helper Acquire Already Used; 'pasv-helper-acquire-in-del-q': PASV Helper Acquire In Del Queue; 'pasv-helper-acquire-already-used': PASV Helper Acquire Already Used; 'port-helper-freed-used': PORT Helper Freed Used; 'port-helper-freed-unused': PORT Helper Freed Unused; 'pasv-helper-freed-used': PASV Helper Freed Used; 'pasv-helper-freed-unused': PASV Helper Freed Unused;

Type: string

Supported Values: all, client-port-request, client-eprt-request, server-pasv-reply, server-epsv-reply, port-retransmits, pasv-retransmits, smp-app-type-mismatch, retransmit-sanity-check-failure, smp-conn-alloc-failure, port-helper-created, pasv-helper-created, port-helper-acquire-in-del-q, port-helper-acquire-already-used, pasv-helper-acquire-in-del-q, pasv-helper-acquire-already-used, port-helper-freed-used, port-helper-freed-unused, pasv-helper-freed-used, pasv-helper-freed-unused

alg_sip

Specification	Value
Type	*object*

sampling-enable

Type: List

sip-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_sip_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'stat-request': Request Received; 'stat-response': Response Received; 'method-register': Method REGISTER; 'method-invite': Method INVITE; 'method-ack': Method ACK; 'method-cancel': Method CANCEL; 'method-bye': Method BYE; 'method-port-config': Method OPTIONS; 'method-prack': Method PRACK; 'method-subscribe': Method SUBSCRIBE; 'method-notify': Method NOTIFY; 'method-publish': Method PUBLISH; 'method-info': Method INFO; 'method-refer': Method REFER; 'method-message': Method MESSAGE; 'method-update': Method UPDATE; 'method-unknown': Method Unknown; 'parse-error': Message Parse Error; 'keep-alive': Keep Alive; 'contact-error': Contact Process Error; 'sdp-error': SDP Process Error; 'rtp-port-no-op': RTP Port No Op; 'rtp-rtcp-port-success': RTP RTCP Port Success; 'rtp-port-failure': RTP Port Failure; 'rtcp-port-failure': RTCP Port Failure; 'contact-port-no-op': Contact Port No Op; 'contact-port-success': Contact Port Success; 'contact-port-failure': Contact Port Failure; 'contact-new': Contact Alloc; 'contact-alloc-failure': Contact Alloc Failure; 'contact-eim': Contact EIM; 'contact-eim-set': Contact EIM Set; 'rtp-new': RTP Alloc; 'rtp-alloc-failure': RTP Alloc Failure; 'rtp-eim': RTP EIM;

Type: string

Supported Values: all, stat-request, stat-response, method-register, method-invite, method-ack, method-cancel, method-bye, method-port-config, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error, keep-alive, contact-error, sdp-error, rtp-port-no-op, rtp-rtcp-port-success, rtp-port-failure, rtcp-port-failure, contact-port-no-op, contact-port-success, contact-port-failure, contact-new, contact-alloc-failure, contact-eim, contact-eim-set, rtp-new, rtp-alloc-failure, rtp-eim

alg_pptp

Specification	Value
Type	*object*

pptp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_pptp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'gre-session-created': GRE Session Created; 'gre-session-freed': GRE Session Freed; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-ext-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-app-type-mismatch': SMP App Type Mismatch; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-sessions-created': SMP Session Created; 'smp-sessions-freed': SMP Session Freed; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, gre-session-created, gre-session-freed, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-ext-ext-alloc-failure, smp-app-type-mismatch, smp-client-call-id-mismatch, smp-sessions-created, smp-sessions-freed, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

alg_rtsp

Specification	Value
Type	*object*

rtsp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_rtsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'transport-inserted': Transport Created; 'transport-freed': Transport Freed; 'transport-alloc-failure': Transport Alloc Failure; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'ext-creation-failure': Extension Creation Failure; 'transport-add-to-ext': Transport Added to Extension; 'transport-removed-from-ext': Transport Removed from Extension; 'transport-too-many': Too Many Transports for Control Conn; 'transport-already-in-ext': Transport Already in Extension; 'transport-exists': Transport Already Exists; 'transport-link-ext-failure-control': Transport Link to Extension Failure Control; 'transport-link-ext-data': Transport Link to Extension Data; 'transport-link-ext-failure-data': Transport Link to Extension Failure Data; 'transport-inserted-shadow': Transport Inserted Shadow; 'transport-creation-race': Transport Create Race; 'transport-alloc-failure-shadow': Transport Alloc Failure Shadow; 'transport-put-in-del-q': Transport Put in Delete Queue; 'transport-freed-shadow': Transport Freed Shadow; 'transport-acquired-from-control': Transport Acquired Control; 'transport-found-from-prev-control': Transport Found From Prev Control; 'transport-acquire-failure-from-control': Transport Acquire Failure Control; 'transport-released-from-control': Transport Released Control; 'transport-double-release-from-control': Transport Double Release Control; 'transport-acquired-from-data': Transport Acquired Data; 'transport-acquire-failure-from-data': Transport Acquire Failure Data; 'transport-released-from-data': Transport Released Data; 'transport-double-release-from-data': Transport Double Release Data; 'transport-retry-lookup-on-data-free': Transport Retry Lookup Data; 'transport-not-found-on-data-free': Transport Not Found Data; 'data-session-created-shadow': Data Session Created Shadow; 'data-session-freed-shadow': Data Session Freed Shadow; 'ha-control-ext-creation-failure': HA Control Extension Creation Failure; 'ha-control-session-created': HA Control Session Created; 'ha-data-session-created': HA Data Session Created;

Type: string

Supported Values: all, transport-inserted, transport-freed, transport-alloc-failure, data-session-created, data-session-freed, ext-creation-failure, transport-add-to-ext, transport-removed-from-ext, transport-too-many, transport-already-in-ext, transport-exists, transport-link-ext-failure-control, transport-link-ext-data, transport-link-ext-failure-data, transport-inserted-shadow, transport-creation-race, transport-alloc-failure-shadow, transport-put-in-del-q, transport-freed-shadow, transport-acquired-from-control, transport-found-from-prev-control, transport-acquire-failure-from-control, transport-released-from-control, transport-

double-release-from-control, transport-acquired-from-data, transport-acquire-failure-from-data, transport-released-from-data, transport-double-release-from-data, transport-retry-lookup-on-data-free, transport-not-found-on-data-free, data-session-created-shadow, data-session-freed-shadow, ha-control-ext-creation-failure, ha-control-session-created, ha-data-session-created

alg_rtp

Specification	Value
Type	*object*

rtp-stun-timeout

Description RTP/RTCP STUN timeout (default: 5 minutes)}

Type: number

Range: 2-10

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_tftp

Specification	Value
Type	*object*

sampling-enable

Type: List

tftp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_tftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

global

Specification	Value
Type	*object*

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Type: List

stateful-firewall-value

Description 'enable': Enable stateful firewall;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'tcp_packet_process': TCP Packet Process; 'udp_packet_process': UDP Packet Process; 'other_packet_process': Other Packet Process; 'packet_inbound_deny': Inbound Packet Denied; 'packet_process_failure': Packet Error Drop; 'outbound_session_created': Outbound Session Created; 'outbound_session_freed': Outbound Session Freed; 'inbound_session_created': Inbound Session Created; 'inbound_session_freed': Inbound Session Freed; 'tcp_session_created': TCP Session Created; 'tcp_session_freed': TCP Session Freed; 'udp_session_created': UDP Session Created; 'udp_session_freed': UDP Session Freed; 'other_session_created': Other Session Created; 'other_session_freed': Other Session Freed; 'session_creation_failure': Session Creation Failure; 'no_fwd_route': No Forward Route; 'no_rev_route': No Reverse Route; 'packet_standby_drop': Standby Drop; 'tcp_fullcone_created': TCP Full-cone Created; 'tcp_fullcone_freed': TCP Full-cone Freed; 'udp_fullcone_created': UDP Full-cone Created; 'udp_fullcone_freed': UDP Full-cone Freed; 'fullcone_creation_failure': Full-Cone Creation Failure; 'eif_process': Endpnt-Independent Filter Matched; 'one_arm_drop': One-Arm Drop; 'no_class_list_match': No Class-List Match Drop; 'outbound_session_created_shadow': Outbound Session Created Shadow; 'outbound_session_freed_shadow': Outbound Session Freed Shadow; 'inbound_session_created_shadow': Inbound Session Created Shadow; 'inbound_session_freed_shadow': Inbound Session Freed Shadow; 'tcp_session_created_shadow': TCP Session Created Shadow; 'tcp_session_freed_shadow': TCP Session Freed Shadow; 'udp_session_created_shadow': UDP Session Created Shadow; 'udp_session_freed_shadow': UDP Session Freed Shadow; 'other_session_created_shadow': Other Session Created Shadow; 'other_session_freed_shadow': Other Session Freed Shadow; 'session_creation_failure_shadow': Session Creation Failure Shadow; 'bad_session_freed': Bad Session Proto on Free; 'ctl_mem_alloc': Memory Alloc; 'ctl_mem_free': Memory Free; 'tcp_fullcone_created_shadow': TCP Full-cone Created Shadow; 'tcp_fullcone_freed_shadow': TCP Full-cone Freed Shadow; 'udp_fullcone_created_shadow': UDP Full-cone Created Shadow; 'udp_fullcone_freed_shadow': UDP Full-cone Freed Shadow; 'fullcone_in_del_q': Full-cone Found in Delete Queue; 'fullcone_overflow_eim': EIM Overflow; 'fullcone_overflow_eif': EIF Overflow; 'fullcone_free_found': Full-cone Free Found From Conn; 'fullcone_free_retry_lookup': Full-cone Retry Look-up; 'fullcone_free_not_found': Full-cone Free Not Found; 'eif_limit_exceeded': EIF Limit Exceeded; 'eif_disable_drop': EIF Disable Drop; 'eif_process_failure': EIF Process Failure; 'eif_filtered': EIF Filtered; 'ha_standby_session_created': HA Standby Session Created; 'ha_standby_session_eim': HA Standby Session EIM; 'ha_standby_session_eif': HA Standby Session EIF;

Type: string

Supported Values: all, tcp_packet_process, udp_packet_process, other_packet_process, packet_inbound_deny, packet_process_failure, outbound_session_created, outbound_session_freed, inbound_session_created, inbound_session_freed, tcp_session_created, tcp_session_freed, udp_session_created, udp_session_freed, other_session_created, other_session_freed, session_creation_failure, no_fwd_route, no_rev_route, packet_standby_drop, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_creation_failure, eif_process, one_arm_drop, no_class_list_match, outbound_session_created_shadow,

outbound_session_freed_shadow, inbound_session_created_shadow, inbound_session_freed_shadow, tcp_session_created_shadow, tcp_session_freed_shadow, udp_session_created_shadow, udp_session_freed_shadow, other_session_created_shadow, other_session_freed_shadow, session_creation_failure_shadow, bad_session_freed, ctl_mem_alloc, ctl_mem_free, tcp_fullcone_created_shadow, tcp_fullcone_freed_shadow, udp_fullcone_created_shadow, udp_fullcone_freed_shadow, fullcone_in_del_q, fullcone_overflow_eim, fullcone_overflow_eif, fullcone_free_found, fullcone_free_retry_lookup, fullcone_free_not_found, eif_limit_exceeded, eif_disable_drop, eif_process_failure, eif_filtered, ha_standby_session_created, ha_standby_session_eim, ha_standby_session_eif

tcp

Specification	Value
Type	*object*

idle-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout/{port}+{port-end}*

stun-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout/{port}+{port-end}*

syn-timeout

Description: syn-timeout is a **JSON Block**. Please see below for *tcp_syn-timeout*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout*

tcp_stun-timeout-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

stun-timeout-val-port-range

Description STUN timeout (default: 2minutes)

Type: number

Range: 0-60

Default: 2

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp_syn-timeout

Specification	Value
Type	*object*

syn-timeout-val

Description Set Seconds session can remain in half-open state before being deleted (default: 4 seconds)

Type: number

Range: 2-30

Default: 4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp_idle-timeout-list

Specification	Value
Type	*list*
Block object keys	

idle-timeout-val-port-range

Description Set Idle timeout for IPv4 and IPv6 TCP established sessions (Idle timeout for IPv4 and IPv6 TCP established sessions (default: 300 seconds))

Type: number

Range: 60-15000

Default: 300

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

stun-timeout-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

stun-timeout-val-port-range

Description STUN timeout (default: 2 minutes)

Type: number

Range: 0-60

Default: 2

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

endpoint-independent-filtering

Specification	Value
Type	*object*

tcp

Description: tcp is a **JSON Block**. Please see below for *endpoint-independent-filtering_tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *endpoint-independent-filtering_udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp*

endpoint-independent-filtering_udp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

endpoint-independent-filtering_udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

endpoint-independent-filtering_tcp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

endpoint-independent-filtering_tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.344 cgnv6 stateful-firewall alg

Configure ALGs for stateful firewall

alg Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	alg
Element URI	/axapi/v3/cgnv6/stateful-firewall/alg
Element Attributes	alg_attributes
Partition Visibility	shared
Schema	`alg schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/alg

alg_attributes

alg attributes

ftp

Description: ftp is a **JSON Block**. Please see below for *ftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/ftp*

pptp

Description: pptp is a **JSON Block**. Please see below for *pptp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/pptp*

rtp

Description: rtp is a **JSON Block**. Please see below for *rtp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/rtp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *rtsp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/rtsp*

sip

Description: sip is a **JSON Block**. Please see below for *sip*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *tftp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/alg/tftp*

ftp

Specification	Value
Type	*object*

ftp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'client-port-request': PORT Requests From Client; 'client-eprt-request': EPRT Requests From Client; 'server-pasv-reply': PASV Replies From Server; 'server-epsv-reply': EPSV Replies From Server; 'port-retransmits': PORT Retransmits; 'pasv-retransmits': PASV Retransmits; 'smp-app-type-mismatch': SMP App Type Mismatch; 'retransmit-sanity-check-failure': Retransmit Sanity Check Failure; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'port-helper-created': PORT Helper Created; 'pasv-helper-created': PASV Helper Created; 'port-helper-acquire-in-del-q': PORT Helper Acquire In Del Queue; 'port-helper-acquire-already-used': PORT Helper Acquire Already Used; 'pasv-helper-acquire-in-del-q': PASV Helper Acquire In Del Queue; 'pasv-helper-acquire-already-used': PASV Helper Acquire Already Used; 'port-helper-freed-used': PORT Helper Freed Used; 'port-helper-freed-unused': PORT Helper Freed Unused; 'pasv-helper-freed-used': PASV Helper Freed Used; 'pasv-helper-freed-unused': PASV Helper Freed Unused;

Type: string

Supported Values: all, client-port-request, client-eprt-request, server-pasv-reply, server-epsv-reply, port-retransmits, pasv-retransmits, smp-app-type-mismatch, retransmit-sanity-check-failure, smp-conn-alloc-failure, port-helper-created, pasv-helper-created, port-helper-acquire-in-del-q, port-helper-acquire-already-used, pasv-helper-acquire-in-del-q, pasv-helper-acquire-already-used, port-helper-freed-used, port-helper-freed-unused, pasv-helper-freed-used, pasv-helper-freed-unused

sip

Specification	Value
Type	*object*

sampling-enable

Type: List

sip-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sip_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'stat-request': Request Received; 'stat-response': Response Received; 'method-register': Method REGISTER; 'method-invite': Method INVITE; 'method-ack': Method ACK; 'method-cancel': Method CANCEL; 'method-bye': Method BYE; 'method-port-config': Method OPTIONS; 'method-prack': Method PRACK; 'method-subscribe': Method SUBSCRIBE; 'method-notify': Method NOTIFY; 'method-publish': Method PUBLISH; 'method-info': Method INFO; 'method-refer': Method REFER; 'method-message': Method MESSAGE; 'method-update': Method UPDATE; 'method-unknown': Method Unknown; 'parse-error': Message Parse Error; 'keep-alive': Keep Alive; 'contact-error': Contact Process Error; 'sdp-error': SDP Process Error; 'rtp-port-no-op': RTP Port No Op; 'rtp-rtcp-port-success': RTP RTCP Port Success; 'rtp-port-failure': RTP Port Failure; 'rtcp-port-failure': RTCP Port Failure; 'contact-port-no-op': Contact Port No Op; 'contact-port-success':

Contact Port Success; 'contact-port-failure': Contact Port Failure; 'contact-new': Contact Alloc; 'contact-alloc-failure': Contact Alloc Failure; 'contact-eim': Contact EIM; 'contact-eim-set': Contact EIM Set; 'rtp-new': RTP Alloc; 'rtp-alloc-failure': RTP Alloc Failure; 'rtp-eim': RTP EIM;

Type: string

Supported Values: all, stat-request, stat-response, method-register, method-invite, method-ack, method-cancel, method-bye, method-port-config, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error, keep-alive, contact-error, sdp-error, rtp-port-no-op, rtp-rtcp-port-success, rtp-port-failure, rtcp-port-failure, contact-port-no-op, contact-port-success, contact-port-failure, contact-new, contact-alloc-failure, contact-eim, contact-eim-set, rtp-new, rtp-alloc-failure, rtp-eim

pptp

Specification	Value
Type	*object*

pptp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pptp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'gre-session-created': GRE Session Created; 'gre-session-freed': GRE Session Freed; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply

Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-ext-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-app-type-mismatch': SMP App Type Mismatch; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-sessions-created': SMP Session Created; 'smp-sessions-freed': SMP Session Freed; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, gre-session-created, gre-session-freed, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-ext-ext-alloc-failure, smp-app-type-mismatch, smp-client-call-id-mismatch, smp-sessions-created, smp-sessions-freed, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

rtsp

Specification	Value
Type	*object*

rtsp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rtsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'transport-inserted': Transport Created; 'transport-freed': Transport Freed; 'transport-alloc-failure': Transport Alloc Failure; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'ext-creation-failure': Extension Creation Failure; 'transport-add-to-ext': Transport Added to Extension; 'transport-removed-from-ext': Transport Removed from Extension; 'transport-too-many': Too Many Transports for Control Conn; 'transport-already-in-ext': Transport Already in Extension; 'transport-exists': Transport Already Exists; 'transport-link-ext-failure-control': Transport Link to Extension Failure Control; 'transport-link-ext-data': Transport Link to Extension Data; 'transport-link-ext-failure-data': Transport Link to Extension Failure Data; 'transport-inserted-shadow': Transport Inserted Shadow; 'transport-creation-race': Transport Create Race; 'transport-alloc-failure-shadow': Transport Alloc Failure Shadow; 'transport-put-in-del-q': Transport Put in Delete Queue; 'transport-freed-shadow': Transport Freed Shadow; 'transport-acquired-from-control': Transport Acquired Control; 'transport-found-from-prev-control': Transport Found From Prev Control; 'transport-acquire-failure-from-control': Transport Acquire Failure Control; 'transport-released-from-control': Transport Released Control; 'transport-double-release-from-control': Transport Double Release Control; 'transport-acquired-from-data': Transport Acquired Data; 'transport-acquire-failure-from-data': Transport Acquire Failure Data; 'transport-released-from-data': Transport Released Data; 'transport-double-release-from-data': Transport Double Release Data; 'transport-retry-lookup-on-data-free': Transport Retry Lookup Data; 'transport-not-found-on-data-free': Transport Not Found Data; 'data-session-created-shadow': Data Session Created Shadow; 'data-session-freed-shadow': Data Session Freed Shadow; 'ha-control-ext-creation-failure': HA Control Extension Creation Failure; 'ha-control-session-created': HA Control Session Created; 'ha-data-session-created': HA Data Session Created;

Type: string

Supported Values: all, transport-inserted, transport-freed, transport-alloc-failure, data-session-created, data-session-freed, ext-creation-failure, transport-add-to-ext, transport-removed-from-ext, transport-too-many, transport-already-in-ext, transport-exists, transport-link-ext-failure-control, transport-link-ext-data, transport-link-ext-failure-data, transport-inserted-shadow, transport-creation-race, transport-alloc-failure-shadow, transport-put-in-del-q, transport-freed-shadow, transport-acquired-from-control, transport-found-from-prev-control, transport-acquire-failure-from-control, transport-released-from-control, transport-double-release-from-control, transport-acquired-from-data, transport-acquire-failure-from-data, transport-released-from-data, transport-double-release-from-data, transport-retry-lookup-on-data-free, transport-not-found-on-data-free, data-session-created-shadow, data-session-freed-shadow, ha-control-ext-creation-failure, ha-control-session-created, ha-data-session-created

rtp

Specification	Value
Type	*object*

rtp-stun-timeout

Description RTP/RTCP STUN timeout (default: 5 minutes)}

Type: number

Range: 2-10

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tftp

Specification	Value
Type	*object*

sampling-enable

Type: List

tftp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

2.26.345 cgnv6 stateful-firewall alg ftp

Configure FTP ALG for NAT stateful firewall (default: enabled)

ftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ftp
Element URI	/axapi/v3/cgnv6/stateful-firewall/alg/ftp
Element Attributes	ftp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/stateful-firewall/alg/ftp/stats
Schema	`ftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/ftp

ftp attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/alg/ftp
Payload:
{
    "ftp": {
        "ftp-value": "disable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/alg/ftp

ftp attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/alg/ftp
Reponse:
{
    "ftp": {
        "ftp-value": "disable",
        "uuid": "c5ed3bae-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/alg/ftp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/ftp

ftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/alg/ftp

ftp attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/alg/ftp
Payload:
{
    "ftp": {
        "ftp-value": "disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/alg/ftp

ftp attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/alg/ftp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
```

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```
↪soon"
    }
}
```

ftp attributes

ftp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'client-port-request': PORT Requests From Client; 'client-eprt-request': EPRT Requests From Client; 'server-pasv-reply': PASV Replies From Server; 'server-epsv-reply': EPSV Replies From Server; 'port-retransmits': PORT Retransmits; 'pasv-retransmits': PASV Retransmits; 'smp-app-type-mismatch': SMP App Type Mismatch; 'retransmit-sanity-check-failure': Retransmit Sanity Check Failure; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'port-helper-created': PORT Helper Created; 'pasv-helper-created': PASV Helper Created; 'port-helper-acquire-in-del-q': PORT Helper Acquire In Del Queue; 'port-helper-acquire-already-used': PORT Helper Acquire Already Used; 'pasv-helper-acquire-in-del-q': PASV Helper Acquire In Del Queue; 'pasv-helper-acquire-already-used': PASV Helper Acquire Already Used; 'port-helper-freed-used': PORT Helper Freed Used; 'port-helper-freed-unused': PORT Helper Freed Unused; 'pasv-helper-freed-used': PASV Helper Freed Used; 'pasv-helper-freed-unused': PASV Helper Freed Unused;

Type: string

Supported Values: all, client-port-request, client-eprt-request, server-pasv-reply, server-epsv-reply, port-retransmits, pasv-retransmits, smp-app-type-mismatch, retransmit-sanity-check-failure, smp-conn-alloc-failure, port-helper-created, pasv-helper-created, port-helper-acquire-in-del-q, port-helper-acquire-already-used, pasv-helper-acquire-in-del-q, pasv-helper-acquire-

already-used, port-helper-freed-used, port-helper-freed-unused, pasv-helper-freed-used, pasv-helper-freed-unused

2.26.346 cgnv6 stateful-firewall alg ftp stats

Statistics for the object ftp

ftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ftp
Element URI	/axapi/v3/cgnv6/stateful-firewall/alg/ftp/stats
Element Attributes	ftp_attributes
Partition Visibility	None
Schema	`ftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/ftp/stats

ftp attributes

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/alg/ftp/stats

ftp attributes

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/ftp/stats

ftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/alg/ftp/stats

ftp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/alg/ftp/stats

ftp attributes

ftp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

client-eprt-request

Description EPRT Requests From Client

Type: number

Format: counter

client-port-request

Description PORT Requests From Client

Type: number

Format: counter

server-epsv-reply

Description EPSV Replies From Server

Type: number

Format: counter

server-pasv-reply

Description PASV Replies From Server

Type: number

Format: counter

2.26.347 cgnv6 stateful-firewall alg pptp

Configure PPTP ALG for NAT stateful firewall (default: enabled)

pptp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pptp
Element URI	/axapi/v3/cgnv6/stateful-firewall/alg/pptp
Element Attributes	pptp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/stateful-firewall/alg/pptp/stats
Schema	`pptp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/pptp

pptp attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/alg/pptp
Payload:
{
    "pptp": {
        "pptp-value": "disable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/alg/pptp

pptp attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/alg/pptp
Reponse:
{
    "pptp": {
        "pptp-value": "disable",
        "uuid": "c5ed3c4e-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/alg/pptp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/pptp

pptp attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/alg/pptp

pptp attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/alg/pptp
Payload:
{
    "pptp": {
        "pptp-value": "disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/alg/pptp

pptp attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/alg/pptp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
↪soon"
    }
}
```

pptp attributes

pptp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'gre-session-created': GRE Session Created; 'gre-session-freed': GRE Session Freed; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-ext-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-app-type-mismatch': SMP App Type Mismatch; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-sessions-created': SMP Session Created; 'smp-sessions-freed': SMP Session Freed; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, gre-session-created, gre-session-freed, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-ext-ext-alloc-failure, smp-app-type-mismatch, smp-client-call-id-mismatch, smp-sessions-created, smp-sessions-freed, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

2.26.348 cgnv6 stateful-firewall alg pptp stats

Statistics for the object pptp

pptp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pptp
Element URI	/axapi/v3/cgnv6/stateful-firewall/alg/pptp/stats
Element Attributes	pptp_attributes
Partition Visibility	None
Schema	`pptp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/pptp/stats

pptp attributes

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/alg/pptp/stats

pptp attributes

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/pptp/stats

pptp attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/alg/pptp/stats

pptp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/alg/pptp/stats

pptp attributes

pptp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

call-reply-pns-call-id-mismatch

Description Call ID Mismatch on Call Reply

Type: number

Format: counter

call-req-pns-call-id-mismatch

Description Call ID Mismatch on Call Request

Type: number

Format: counter

calls-established

Description Calls Established

Type: number

Format: counter

gre-session-created

Description GRE Session Created

Type: number

Format: counter

gre-session-freed

Description GRE Session Freed

Type: number

Format: counter

2.26.349 cgnv6 stateful-firewall alg rtp

Configure FTP ALG for NAT stateful firewall (default: enabled)

rtp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rtp
Element URI	/axapi/v3/cgnv6/stateful-firewall/alg/rtp
Element Attributes	rtp_attributes
Partition Visibility	shared
Schema	`rtp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/rtp

rtp attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/alg/rtp
Payload:
{
    "rtp": {
        "rtp-stun-timeout": 2
```

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```
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/alg/rtp

rtp attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/alg/rtp
Reponse:
{
    "rtp": {
        "rtp-stun-timeout": 2,
        "uuid": "c5ed3cee-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/alg/rtp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/rtp

rtp attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/alg/rtp

rtp attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/alg/rtp
Payload:
{
    "rtp": {
        "rtp-stun-timeout": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/alg/rtp

rtp attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/alg/rtp
Reponse:
{
```

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```
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
↪soon"
    }
}
```

rtp attributes

rtp-stun-timeout

Description RTP/RTCP STUN timeout (default: 5 minutes)}

Type: number

Range: 2-10

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.350 cgnv6 stateful-firewall alg rtsp

Configure RTSP ALG for NAT stateful firewall (default: enabled)

rtsp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rtsp
Element URI	/axapi/v3/cgnv6/stateful-firewall/alg/rtsp
Element Attributes	rtsp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/stateful-firewall/alg/rtsp/stats
Schema	`rtsp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/rtsp

rtsp attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/alg/rtsp
Payload:
{
    "rtsp": {
        "rtsp-value": "disable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/alg/rtsp

rtsp attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/alg/rtsp
Reponse:
{
    "rtsp": {
        "rtsp-value": "disable",
        "uuid": "c5ed3d8e-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/alg/rtsp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/rtsp

rtsp attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/alg/rtsp

rtsp attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/alg/rtsp
Payload:
{
    "rtsp": {
        "rtsp-value": "disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/alg/rtsp

rtsp attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/alg/rtsp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed soon"
    }
}
```

rtsp attributes

rtsp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'transport-inserted': Transport Created; 'transport-freed': Transport Freed; 'transport-alloc-failure': Transport Alloc Failure; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'ext-creation-failure': Extension Creation Failure; 'transport-add-to-ext': Transport Added to Extension; 'transport-removed-from-ext': Transport Removed from Extension; 'transport-too-many': Too Many Transports for Control Conn; 'transport-already-in-ext': Transport Already in Extension; 'transport-exists': Transport Already Exists; 'transport-link-ext-failure-control': Transport Link to Extension Failure Control; 'transport-link-ext-data': Transport Link to Extension Data; 'transport-link-ext-failure-data': Transport Link to Extension Failure Data; 'transport-inserted-shadow': Transport Inserted Shadow; 'transport-creation-race': Transport Create Race; 'transport-alloc-failure-shadow': Transport Alloc Failure Shadow; 'transport-put-in-del-q': Transport Put

in Delete Queue; 'transport-freed-shadow': Transport Freed Shadow; 'transport-acquired-from-control': Transport Acquired Control; 'transport-found-from-prev-control': Transport Found From Prev Control; 'transport-acquire-failure-from-control': Transport Acquire Failure Control; 'transport-released-from-control': Transport Released Control; 'transport-double-release-from-control': Transport Double Release Control; 'transport-acquired-from-data': Transport Acquired Data; 'transport-acquire-failure-from-data': Transport Acquire Failure Data; 'transport-released-from-data': Transport Released Data; 'transport-double-release-from-data': Transport Double Release Data; 'transport-retry-lookup-on-data-free': Transport Retry Lookup Data; 'transport-not-found-on-data-free': Transport Not Found Data; 'data-session-created-shadow': Data Session Created Shadow; 'data-session-freed-shadow': Data Session Freed Shadow; 'ha-control-ext-creation-failure': HA Control Extension Creation Failure; 'ha-control-session-created': HA Control Session Created; 'ha-data-session-created': HA Data Session Created;

Type: string

Supported Values: all, transport-inserted, transport-freed, transport-alloc-failure, data-session-created, data-session-freed, ext-creation-failure, transport-add-to-ext, transport-removed-from-ext, transport-too-many, transport-already-in-ext, transport-exists, transport-link-ext-failure-control, transport-link-ext-data, transport-link-ext-failure-data, transport-inserted-shadow, transport-creation-race, transport-alloc-failure-shadow, transport-put-in-del-q, transport-freed-shadow, transport-acquired-from-control, transport-found-from-prev-control, transport-acquire-failure-from-control, transport-released-from-control, transport-double-release-from-control, transport-acquired-from-data, transport-acquire-failure-from-data, transport-released-from-data, transport-double-release-from-data, transport-retry-lookup-on-data-free, transport-not-found-on-data-free, data-session-created-shadow, data-session-freed-shadow, ha-control-ext-creation-failure, ha-control-session-created, ha-data-session-created

2.26.351 cgnv6 stateful-firewall alg rtsp stats

Statistics for the object rtsp

rtsp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rtsp
Element URI	/axapi/v3/cgnv6/stateful-firewall/alg/rtsp/stats
Element Attributes	rtsp_attributes
Partition Visibility	None
Schema	`rtsp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/rtsp/stats

rtsp attributes

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/alg/rtsp/stats

rtsp attributes

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/rtsp/stats

rtsp attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/alg/rtsp/stats

rtsp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/alg/rtsp/stats

rtsp attributes

rtsp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

data-session-created

Description Data Session Created

Type: number

Format: counter

data-session-freed

Description Data Session Freed

Type: number

Format: counter

transport-alloc-failure

Description Transport Alloc Failure

Type: number

Format: counter

transport-freed

Description Transport Freed

Type: number

Format: counter

transport-inserted

Description Transport Created

Type: number

Format: counter

2.26.352 cgnv6 stateful-firewall alg sip

Configure SIP ALG for NAT stateful firewall (default: enabled)

sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sip
Element URI	/axapi/v3/cgnv6/stateful-firewall/alg/sip
Element Attributes	sip_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/stateful-firewall/alg/sip/stats
Schema	`sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/sip

sip attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/alg/sip
Payload:
{
    "sip": {
        "sip-value": "disable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/alg/sip

sip attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/alg/sip
Reponse:
{
    "sip": {
        "sip-value": "disable",
        "uuid": "c5ed3e2e-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/alg/sip"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/sip

sip attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/alg/sip

sip attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/alg/sip
Payload:
{
    "sip": {
        "sip-value": "disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/alg/sip

sip attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/alg/sip
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
```

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```
↪soon"
    }
}
```

sip attributes

sampling-enable

Type: List

sip-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'stat-request': Request Received; 'stat-response': Response Received; 'method-register': Method REGISTER; 'method-invite': Method INVITE; 'method-ack': Method ACK; 'method-cancel': Method CANCEL; 'method-bye': Method BYE; 'method-port-config': Method OPTIONS; 'method-prack': Method PRACK; 'method-subscribe': Method SUBSCRIBE; 'method-notify': Method NOTIFY; 'method-publish': Method PUBLISH; 'method-info': Method INFO; 'method-refer': Method REFER; 'method-message': Method MESSAGE; 'method-update': Method UPDATE; 'method-unknown': Method Unknown; 'parse-error': Message Parse Error; 'keep-alive': Keep Alive; 'contact-error': Contact Process Error; 'sdp-error': SDP Process Error; 'rtp-port-no-op': RTP Port No Op; 'rtp-rtcp-port-success': RTP RTCP Port Success; 'rtp-port-failure': RTP Port Failure; 'rtcp-port-failure': RTCP Port Failure; 'contact-port-no-op': Contact Port No Op; 'contact-port-success': Contact Port Success; 'contact-port-failure': Contact Port Failure; 'contact-new': Contact Alloc; 'contact-alloc-failure': Contact Alloc Failure; 'contact-eim': Contact EIM; 'contact-eim-set': Contact EIM Set; 'rtp-new': RTP Alloc; 'rtp-alloc-failure': RTP Alloc Failure; 'rtp-eim': RTP EIM;

Type: string

Supported Values: all, stat-request, stat-response, method-register, method-invite, method-ack, method-cancel, method-bye, method-port-config, method-prack, method-subscribe,

method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error, keep-alive, contact-error, sdp-error, rtp-port-no-op, rtp-rtcp-port-success, rtp-port-failure, rtcp-port-failure, contact-port-no-op, contact-port-success, contact-port-failure, contact-new, contact-alloc-failure, contact-eim, contact-eim-set, rtp-new, rtp-alloc-failure, rtp-eim

2.26.353 cgnv6 stateful-firewall alg sip stats

Statistics for the object sip

sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sip
Element URI	/axapi/v3/cgnv6/stateful-firewall/alg/sip/stats
Element Attributes	sip_attributes
Partition Visibility	None
Schema	`sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/sip/stats

sip attributes

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/alg/sip/stats

sip attributes

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/sip/stats

sip attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/alg/sip/stats

sip attributes

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/alg/sip/stats

sip attributes

sip attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

method-ack

Description Method ACK

Type: number

Format: counter

method-bye

Description Method BYE

Type: number

Format: counter

method-cancel

Description Method CANCEL

Type: number

Format: counter

method-info

Description Method INFO

Type: number

Format: counter

method-invite

Description Method INVITE

Type: number

Format: counter

method-message

Description Method MESSAGE

Type: number

Format: counter

method-notify

Description Method NOTIFY

Type: number

Format: counter

method-port-config

Description Method OPTIONS

Type: number

Format: counter

method-prack

Description Method PRACK

Type: number

Format: counter

method-publish

Description Method PUBLISH

Type: number

Format: counter

method-refer

Description Method REFER

Type: number

Format: counter

method-register

Description Method REGISTER

Type: number

Format: counter

method-subscribe

Description Method SUBSCRIBE

Type: number

Format: counter

method-unknown

Description Method Unknown

Type: number

Format: counter

method-update

Description Method UPDATE

Type: number

Format: counter

stat-request

Description Request Received

Type: number

Format: counter

stat-response

Description Response Received

Type: number

Format: counter

2.26.354 cgnv6 stateful-firewall alg tftp

Configure TFTP ALG for NAT stateful firewall (default: enabled)

tftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tftp
Element URI	/axapi/v3/cgnv6/stateful-firewall/alg/tftp
Element Attributes	tftp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/stateful-firewall/alg/tftp/stats
Schema	`tftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/tftp

tftp attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/alg/tftp
Payload:
{
    "tftp": {
        "tftp-value": "disable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/alg/tftp

tftp attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/alg/tftp
Reponse:
{
    "tftp": {
        "tftp-value": "disable",
        "uuid": "c5ed3ec4-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/alg/tftp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/tftp

tftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/alg/tftp

tftp attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/alg/tftp
Payload:
{
    "tftp": {
        "tftp-value": "disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/alg/tftp

tftp attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/alg/tftp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
↪soon"
    }
}
```

tftp attributes

sampling-enable

Type: List

tftp-value

Description 'disable': Disable ALG;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

2.26.355 cgnv6 stateful-firewall alg tftp stats

Statistics for the object tftp

tftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tftp
Element URI	/axapi/v3/cgnv6/stateful-firewall/alg/tftp/stats
Element Attributes	tftp_attributes
Partition Visibility	None
Schema	`tftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/tftp/stats

tftp attributes

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/alg/tftp/stats

tftp attributes

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/alg/tftp/stats

tftp attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/alg/tftp/stats

tftp attributes

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/alg/tftp/stats

tftp attributes

tftp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

session-created

Description TFTP Client Sessions created

Type: number

Format: counter

2.26.356 cgnv6 stateful-firewall endpoint-independent-filtering

Configure Endpoint-Independent-Filtering Behavior

endpoint-independent-filtering Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	endpoint-independent-filtering
Element URI	/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering
Element Attributes	endpoint-independent-filtering_attributes
Partition Visibility	shared
Schema	`endpoint-independent-filtering schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering

endpoint-independent-filtering_attributes

endpoint-independent-filtering attributes

tcp

Description: tcp is a **JSON Block**. Please see below for *tcp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *udp*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp*

udp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

udp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

tcp

Specification	Value
Type	*object*

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp_port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.357 cgnv6 stateful-firewall endpoint-independent-filtering tcp

Set endpoint-independent filtering for TCP only

tcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tcp
Element URI	/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp
Element Attributes	tcp_attributes
Partition Visibility	shared
Schema	`tcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp

tcp attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp
Payload:
{
    "tcp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp

tcp attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp
Reponse:
```

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```
{
    "tcp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
            }
        ],
        "uuid": "4a34c19c-08ba-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp

tcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp

tcp attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp
Payload:
{
    "tcp": {
        "port-list": [
            {
                "port": 2,
                "port-end": 2
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp

tcp attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/tcp
Reponse:
{
    "response": {
        "http-status": 200,
```

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```
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
↪soon"
    }
}
```

tcp attributes

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.358 cgnv6 stateful-firewall endpoint-independent-filtering udp

Set endpoint-independent filtering for UDP only

udp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	udp
Element URI	/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp
Element Attributes	udp_attributes
Partition Visibility	shared
Schema	`udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp

udp attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp
Payload:
{
    "udp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp

udp attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp
Reponse:
{
    "udp": {
        "port-list": [
            {
                "port": 1,
                "port-end": 1
            }
        ],
        "uuid": "65572cb2-08ba-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp"
```

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```
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp

udp attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp

udp attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp
Payload:
{
    "udp": {
        "port-list": [
            {
                "port": 2,
                "port-end": 2
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp

udp attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/endpoint-independent-filtering/udp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
↪soon"
    }
}
```

udp attributes

port-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

port-end

Description Port Range End

Type: number

2.26.359 cgnv6 stateful-firewall global

Stateful Firewall Configuration (default:disabled)

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/stateful-firewall/global
Element Attributes	global_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/cgnv6/stateful-firewall/global/stats
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/global

global attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/global
Payload:
{
    "global": {
        "stateful-firewall-value": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/global

global attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/global
Reponse:
{
    "global": {
        "stateful-firewall-value": "enable",
        "respond-to-user-mac": 0,
        "uuid": "c5ed3ae6-0890-11f0-a250-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/global"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/global

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/global

global attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/global
Payload:
{
    "global": {
        "stateful-firewall-value": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/global

global attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed soon"
    }
}
```

global attributes

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Type: List

stateful-firewall-value

Description 'enable': Enable stateful firewall;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'tcp_packet_process': TCP Packet Process; 'udp_packet_process': UDP Packet Process; 'other_packet_process': Other Packet Process; 'packet_inbound_deny': Inbound Packet Denied; 'packet_process_failure': Packet Error Drop; 'outbound_session_created': Outbound Session Created; 'outbound_session_freed': Outbound Session Freed; 'inbound_session_created': Inbound Session Created; 'inbound_session_freed': Inbound Session Freed; 'tcp_session_created': TCP Session Created; 'tcp_session_freed': TCP Session Freed; 'udp_session_created': UDP Session Created; 'udp_session_freed': UDP Session Freed; 'other_session_created': Other Session Created; 'other_session_freed': Other Session Freed; 'session_creation_failure': Session Creation Failure; 'no_fwd_route': No Forward Route; 'no_rev_route': No Reverse Route; 'packet_standby_drop': Standby Drop; 'tcp_fullcone_created': TCP Full-cone Created; 'tcp_fullcone_freed': TCP Full-cone Freed; 'udp_fullcone_created': UDP Full-cone Created; 'udp_fullcone_freed': UDP Full-cone Freed; 'fullcone_creation_failure': Full-Cone Creation Failure; 'eif_process': Endpnt-Independent Filter Matched; 'one_arm_drop': One-Arm Drop; 'no_class_list_match': No Class-List Match Drop; 'outbound_session_created_shadow': Outbound Session Created Shadow; 'outbound_session_freed_shadow': Outbound Session Freed Shadow; 'inbound_session_created_shadow': Inbound Session Created Shadow; 'inbound_session_freed_shadow': Inbound Session Freed Shadow; 'tcp_session_created_shadow': TCP Session Created Shadow; 'tcp_session_freed_shadow': TCP Session Freed Shadow; 'udp_session_created_shadow': UDP Session Created Shadow; 'udp_session_freed_shadow': UDP Session Freed Shadow; 'other_session_created_shadow': Other Session Created Shadow; 'other_session_freed_shadow': Other Session Freed Shadow; 'session_creation_failure_shadow': Session Creation Failure Shadow; 'bad_session_freed': Bad Session Proto on Free; 'ctl_mem_alloc': Memory Alloc; 'ctl_mem_free': Memory Free; 'tcp_fullcone_created_shadow': TCP Full-cone Created Shadow; 'tcp_fullcone_freed_shadow': TCP Full-cone Freed Shadow; 'udp_fullcone_created_shadow': UDP Full-cone Created Shadow; 'udp_fullcone_freed_shadow': UDP Full-cone Freed Shadow; 'fullcone_in_del_q': Full-cone Found in Delete Queue; 'fullcone_overflow_eim': EIM Overflow; 'fullcone_overflow_eif': EIF Overflow; 'fullcone_free_found': Full-cone Free Found From Conn; 'fullcone_free_retry_lookup': Full-cone Retry Look-up; 'fullcone_free_not_found': Full-cone Free Not Found; 'eif_limit_exceeded': EIF Limit Exceeded; 'eif_disable_drop': EIF Disable Drop; 'eif_process_failure': EIF Process Failure; 'eif_filtered': EIF Filtered; 'ha_standby_session_created': HA Standby Session Created; 'ha_standby_session_eim': HA Standby Session EIM; 'ha_standby_session_eif': HA Standby Session EIF;

Type: string

Supported Values: all, tcp_packet_process, udp_packet_process, other_packet_process, packet_inbound_deny, packet_process_failure, outbound_session_created, outbound_session_freed, inbound_session_created, inbound_session_freed, tcp_session_created, tcp_session_freed, udp_session_created, udp_session_freed, other_session_created, other_session_freed, session_creation_failure, no_fwd_route, no_rev_route, packet_standby_drop, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_creation_failure, eif_process, one_arm_drop, no_class_list_match, outbound_session_created_shadow, outbound_session_freed_shadow, inbound_session_created_shadow, inbound_session_freed_shadow, tcp_session_created_shadow, tcp_session_freed_shadow, udp_session_created_shadow, udp_session_freed_shadow, other_session_created_shadow, other_session_freed_shadow, session_creation_failure_shadow, bad_session_freed, ctl_mem_alloc, ctl_mem_free, tcp_fullcone_created_shadow, tcp_fullcone_freed_shadow, udp_fullcone_created_shadow, udp_fullcone_freed_shadow, fullcone_in_del_q, fullcone_overflow_eim, fullcone_overflow_eif, fullcone_free_found, fullcone_free_retry_lookup, fullcone_free_not_found, eif_limit_exceeded, eif_disable_drop, eif_process_failure, eif_filtered, ha_standby_session_created, ha_standby_session_eim, ha_standby_session_eif

2.26.360 cgnv6 stateful-firewall global stats

Statistics for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/cgnv6/stateful-firewall/global/stats
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/global/stats

global attributes

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/global/stats

global attributes

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/global/stats

global attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/global/stats

global attributes

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/global/stats

global attributes

global attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

eif_process

Description Endpnt-Independent Filter Matched

Type: number

Format: counter

fullcone_creation_failure

Description Full-Cone Creation Failure

Type: number

Format: counter

inbound_session_created

Description Inbound Session Created

Type: number

Format: counter

inbound_session_freed

Description Inbound Session Freed

Type: number

Format: counter

no_class_list_match

Description No Class-List Match Drop

Type: number

Format: counter

no_fwd_route

Description No Forward Route

Type: number

Format: counter

no_rev_route

Description No Reverse Route

Type: number

Format: counter

one_arm_drop

Description One-Arm Drop

Type: number

Format: counter

other_packet_process

Description Other Packet Process

Type: number

Format: counter

other_session_created

Description Other Session Created

Type: number

Format: counter

other_session_freed

Description Other Session Freed

Type: number

Format: counter

outbound_session_created

Description Outbound Session Created

Type: number

Format: counter

outbound_session_freed

Description Outbound Session Freed

Type: number

Format: counter

packet_inbound_deny

Description Inbound Packet Denied

Type: number

Format: counter

packet_process_failure

Description Packet Error Drop

Type: number

Format: counter

packet_standby_drop

Description Standby Drop

Type: number

Format: counter

session_creation_failure

Description Session Creation Failure

Type: number

Format: counter

tcp_fullcone_created

Description TCP Full-cone Created

Type: number

Format: counter

tcp_fullcone_freed

Description TCP Full-cone Freed

Type: number

Format: counter

tcp_packet_process

Description TCP Packet Process

Type: number

Format: counter

tcp_session_created

Description TCP Session Created

Type: number

Format: counter

tcp_session_freed

Description TCP Session Freed

Type: number

Format: counter

udp_fullcone_created

Description UDP Full-cone Created

Type: number

Format: counter

udp_fullcone_freed

Description UDP Full-cone Freed

Type: number

Format: counter

udp_packet_process

Description UDP Packet Process

Type: number

Format: counter

udp_session_created

Description UDP Session Created

Type: number

Format: counter

udp_session_freed

Description UDP Session Freed

Type: number

Format: counter

2.26.361 cgnv6 stateful-firewall stun-timeout

Set STUN timeout for endpoint-independent filtering

stun-timeout Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port, port-end*
Collection Name	*stun-timeout-list*
Collection URI	/axapi/v3/cgnv6/stateful-firewall/stun-timeout
Element Name	stun-timeout
Element URI	/axapi/v3/cgnv6/stateful-firewall/stun-timeout/{port}+{port-end}
Element Attributes	stun-timeout_attributes
Partition Visibility	shared
Schema	`stun-timeout schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/stun-timeout

stun-timeout attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/stun-timeout/
Payload:
{
    "stun-timeout": {
        "stun-timeout-val-port-range": 0,
        "port": 1,
        "port-end": 1
```

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```
    }
}
```

Create List

POST

/axapi/v3/cgnv6/stateful-firewall/stun-timeout

stun-timeout attributes

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/stun-timeout/{port}+{port-end}

stun-timeout attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/stun-timeout/1+1
Reponse:
{
    "stun-timeout": {
        "port": 1,
        "port-end": 1,
        "stun-timeout-val-port-range": 0,
        "uuid": "a2a6e2e2-08ba-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/stun-timeout/1+1"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/stateful-firewall/stun-timeout

stun-timeout-list

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/stun-timeout/{port}+{port-end}

stun-timeout attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/stun-timeout/{port}+{port-end}

stun-timeout attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/stun-timeout/1+1
Payload:
{
    "stun-timeout": {
```

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```
        "stun-timeout-val-port-range": 0,
        "port": 1,
        "port-end": 1
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/stateful-firewall/stun-timeout

stun-timeout-list

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/stun-timeout/{port}+{port-end}

stun-timeout attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/stun-timeout/1+1
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
↪soon"
    }
}
```

stun-timeout-list

stun-timeout-list is **JSON List** of *stun-timeout attributes*

stun-timeout-list : [

{ *stun-timeout attributes* },

{ *stun-timeout attributes* },

...

]

stun-timeout attributes

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

stun-timeout-val-port-range

Description STUN timeout (default: 2 minutes)

Type: number

Range: 0-60

Default: 2

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.362 cgnv6 stateful-firewall tcp

Configure TCP parameters for stateful firewall

tcp Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	tcp
Element URI	/axapi/v3/cgnv6/stateful-firewall/tcp
Element Attributes	tcp_attributes
Partition Visibility	shared
Schema	`tcp schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/tcp

tcp_attributes

tcp attributes

idle-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout/{port}+{port-end}*

stun-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout/{port}+{port-end}*

syn-timeout

Description: syn-timeout is a **JSON Block**. Please see below for *syn-timeout*

Type: Object

Reference Object: */axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout*

stun-timeout-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

stun-timeout-val-port-range

Description STUN timeout (default: 2minutes)

Type: number

Range: 0-60

Default: 2

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

syn-timeout

Specification	Value
Type	*object*

syn-timeout-val

Description Set Seconds session can remain in half-open state before being deleted (default: 4 seconds)

Type: number

Range: 2-30

Default: 4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

idle-timeout-list

Specification	Value
Type	*list*
Block object keys	

idle-timeout-val-port-range

Description Set Idle timeout for IPv4 and IPv6 TCP established sessions (Idle timeout for IPv4 and IPv6 TCP established sessions (default: 300 seconds))

Type: number

Range: 60-15000

Default: 300

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.363 cgnv6 stateful-firewall tcp idle-timeout

Configure TCP established-session idle timeout for IPv4 and IPv6

idle-timeout Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port, port-end*
Collection Name	*idle-timeout-list*
Collection URI	/axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout
Element Name	idle-timeout
Element URI	/axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout/{port}+{port-end}
Element Attributes	idle-timeout_attributes
Partition Visibility	shared
Schema	`idle-timeout schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout

idle-timeout attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout/
Payload:
{
    "idle-timeout": {
        "idle-timeout-val-port-range": 60,
        "port": 1,
        "port-end": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout

idle-timeout attributes

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout/{port}+{port-end}

idle-timeout attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout/1+1
Reponse:
{
    "idle-timeout": {
        "port": 1,
        "port-end": 1,
        "idle-timeout-val-port-range": 60,
        "uuid": "d23b58f8-08ba-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout/1+1"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout

idle-timeout-list

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout/{port}+{port-end}

idle-timeout attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout/{port}+{port-end}

idle-timeout attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout/1+1
Payload:
{
    "idle-timeout": {
        "idle-timeout-val-port-range": 180,
        "port": 1,
        "port-end": 1
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout

idle-timeout-list

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout/{port}+{port-end}

idle-timeout attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/tcp/idle-timeout/1+1
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
↪soon"
    }
}
```

idle-timeout-list

idle-timeout-list is **JSON List** of *idle-timeout attributes*

idle-timeout-list : [

{ *idle-timeout attributes* },

{ *idle-timeout attributes* },

...

]

idle-timeout attributes

idle-timeout-val-port-range

Description Set Idle timeout for IPv4 and IPv6 TCP established sessions (Idle timeout for IPv4 and IPv6 TCP established sessions (default: 300 seconds))

Type: number

Range: 60-15000

Default: 300

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.364 cgnv6 stateful-firewall tcp stun-timeout

Set STUN timeout for endpoint-independent filtering

stun-timeout Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port, port-end*
Collection Name	*stun-timeout-list*
Collection URI	/axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout
Element Name	stun-timeout
Element URI	/axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout/{port}+{port-end}
Element Attributes	stun-timeout_attributes
Partition Visibility	shared
Schema	`stun-timeout schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout

stun-timeout attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout/
Payload:
{
    "stun-timeout": {
        "stun-timeout-val-port-range": 0,
        "port": 1,
        "port-end": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout

stun-timeout attributes

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout/{port}+{port-end}

stun-timeout attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout/1+1
Reponse:
{
    "stun-timeout": {
        "port": 1,
        "port-end": 1,
        "stun-timeout-val-port-range": 0,
        "uuid": "e98cd824-08ba-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout/1+1"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout

stun-timeout-list

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout/{port}+{port-end}

stun-timeout attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout/{port}+{port-end}

stun-timeout attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout/1+1
Payload:
{
    "stun-timeout": {
        "stun-timeout-val-port-range": 0,
        "port": 1,
        "port-end": 1
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout

stun-timeout-list

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout/{port}+{port-end}

stun-timeout attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/tcp/stun-timeout/1+1
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
↪soon"
    }
}
```

stun-timeout-list

stun-timeout-list is **JSON List** of *stun-timeout attributes*

stun-timeout-list : [

{ *stun-timeout attributes* },

{ *stun-timeout attributes* },

...

]

stun-timeout attributes

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

stun-timeout-val-port-range

Description STUN timeout (default: 2minutes)

Type: number

Range: 0-60

Default: 2

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.365 cgnv6 stateful-firewall tcp syn-timeout

Configure TCP SYNtimeout

syn-timeout Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	syn-timeout
Element URI	/axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout
Element Attributes	syn-timeout_attributes
Partition Visibility	shared
Schema	`syn-timeout schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout

syn-timeout attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout
Payload:
{
    "syn-timeout": {
        "syn-timeout-val": 2
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout

syn-timeout attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout
Reponse:
{
    "syn-timeout": {
        "syn-timeout-val": 2,
        "uuid": "c5ed407c-0890-11f0-a250-a9cf5715f49c",
```

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```
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout

syn-timeout attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout

syn-timeout attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout
Payload:
{
    "syn-timeout": {
        "syn-timeout-val": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout

syn-timeout attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/tcp/syn-timeout
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
↪soon"
    }
}
```

syn-timeout attributes

syn-timeout-val

Description Set Seconds session can remain in half-open state before being deleted (default: 4 seconds)

Type: number

Range: 2-30

Default: 4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.366 cgnv6 stateful-firewall udp

Configure UDP parameters for stateful firewall

udp Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	udp
Element URI	/axapi/v3/cgnv6/stateful-firewall/udp
Element Attributes	udp_attributes
Partition Visibility	shared
Schema	`udp schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/udp

udp_attributes

udp attributes

idle-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout/{port}+{port-end}*

stun-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout/{port}+{port-end}*

stun-timeout-list

Specification	Value
Type	*list*
Block object keys	

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

stun-timeout-val-port-range

Description STUN timeout (default: 2 minutes)

Type: number

Range: 0-60

Default: 2

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

idle-timeout-list

Specification	Value
Type	*list*
Block object keys	

fast

Description Fast aging for idle sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: fast and idle-timeout-val-port-range are mutually exclusive

idle-timeout-val-port-range

Description Idle timeout for IPv4 and IPv6 TCP established sessions (Idle timeout for IPv4 and IPv6 TCP established sessions (default: 300 seconds))

Type: number

Range: 60-15000

Default: 300

Mutual Exclusion: idle-timeout-val-port-range and fast are mutually exclusive

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.367 cgnv6 stateful-firewall udp idle-timeout

Configure UDP session idle timeout for IPv4 and IPv6

idle-timeout Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port, port-end*
Collection Name	*idle-timeout-list*
Collection URI	/axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout
Element Name	idle-timeout
Element URI	/axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout/{port}+{port-end}
Element Attributes	idle-timeout_attributes
Partition Visibility	shared
Schema	`idle-timeout schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout

idle-timeout attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout/
Payload:
{
    "idle-timeout": {
        "port": 1,
        "port-end": 1,
        "fast": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout

idle-timeout attributes

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout/{port}+{port-end}

idle-timeout attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout/1+1
Reponse:
{
    "idle-timeout": {
        "port": 1,
        "port-end": 1,
        "fast": 1,
        "uuid": "33f52448-08bb-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout/1+1"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout

idle-timeout-list

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout/{port}+{port-end}

idle-timeout attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout/{port}+{port-end}

idle-timeout attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout/1+1
Payload:
{
    "idle-timeout": {
        "port": 1,
        "port-end": 1,
        "idle-timeout-val-port-range": 60
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout

idle-timeout-list

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout/{port}+{port-end}

idle-timeout attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/udp/idle-timeout/1+1
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
↪soon"
    }
}
```

idle-timeout-list

idle-timeout-list is **JSON List** of *idle-timeout attributes*

idle-timeout-list : [

{ *idle-timeout attributes* },

{ *idle-timeout attributes* },

...

]

idle-timeout attributes

fast

Description Fast aging for idle sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: fast and idle-timeout-val-port-range are mutually exclusive

idle-timeout-val-port-range

Description Idle timeout for IPv4 and IPv6 TCP established sessions (Idle timeout for IPv4 and IPv6 TCP established sessions (default: 300 seconds))

Type: number

Range: 60-15000

Default: 300

Mutual Exclusion: idle-timeout-val-port-range and fast are mutually exclusive

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.368 cgnv6 stateful-firewall udp stun-timeout

Set STUN timeout for endpoint-independent filtering

stun-timeout Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port, port-end*
Collection Name	*stun-timeout-list*
Collection URI	/axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout
Element Name	stun-timeout
Element URI	/axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout/{port}+{port-end}
Element Attributes	stun-timeout_attributes
Partition Visibility	shared
Schema	`stun-timeout schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout

stun-timeout attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout/
Payload:
{
    "stun-timeout": {
        "stun-timeout-val-port-range": 0,
        "port": 1,
        "port-end": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout

stun-timeout attributes

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout/{port}+{port-end}

stun-timeout attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout/1+1
Reponse:
{
    "stun-timeout": {
        "port": 1,
        "port-end": 1,
        "stun-timeout-val-port-range": 0,
```

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```
        "uuid": "50a679ca-08bb-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout/1+1"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout

stun-timeout-list

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout/{port}+{port-end}

stun-timeout attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout/{port}+{port-end}

stun-timeout attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout/1+1
Payload:
{
    "stun-timeout": {
        "stun-timeout-val-port-range": 0,
        "port": 1,
        "port-end": 1
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout

stun-timeout-list

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout/{port}+{port-end}

stun-timeout attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/udp/stun-timeout/1+1
Reponse:
{
    "response": {
```

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```
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
↪soon"
    }
}
```

stun-timeout-list

stun-timeout-list is **JSON List** of *stun-timeout attributes*

stun-timeout-list : [

{ *stun-timeout attributes* },

{ *stun-timeout attributes* },

...

]

stun-timeout attributes

port

Description Single Destination Port or Port Range Start

Type: number

Range: 1-65535

port-end

Description Port Range End

Type: number

Range: 1-65535

stun-timeout-val-port-range

Description STUN timeout (default: 2 minutes)

Type: number

Range: 0-60

Default: 2

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.369 cgnv6 stateful-firewall vrid

Set VRRP-A vrid for stateful firewall

vrid Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	vrid
Element URI	/axapi/v3/cgnv6/stateful-firewall/vrid
Element Attributes	vrid_attributes
Partition Visibility	shared
Schema	`vrid schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/stateful-firewall/vrid

vrid attributes

```
POST /axapi/v3/cgnv6/stateful-firewall/vrid
Payload:
{
    "vrid": {
        "vrid-value": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/stateful-firewall/vrid

vrid attributes

```
GET /axapi/v3/cgnv6/stateful-firewall/vrid
Reponse:
{
    "vrid": {
        "vrid-value": 1,
        "uuid": "69f779ba-08bb-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/stateful-firewall/vrid"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/stateful-firewall/vrid

vrid attributes

Replace Object

PUT

/axapi/v3/cgnv6/stateful-firewall/vrid

vrid attributes

```
PUT /axapi/v3/cgnv6/stateful-firewall/vrid
Payload:
{
    "vrid": {
        "vrid-value": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/stateful-firewall/vrid

vrid attributes

```
DELETE /axapi/v3/cgnv6/stateful-firewall/vrid
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "(warning) stateful-firewall is an obsoleted feature that will be removed␣
↪soon"
    }
}
```

vrid attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid-value

Description Set VRRP-A vrid for stateful firewall (IPv4 and IPv6)

Type: number

Range: 1-31

2.26.370 cgnv6 template

Define a CGNv6 template

template Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	template
Element URI	/axapi/v3/cgnv6/template
Element Attributes	template_attributes
Partition Visibility	shared
Schema	`template schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cgnv6/template

template_attributes

template attributes

dns-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/dns/{name}*

http-alg-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/http-alg/{name}*

logging-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}*

pcp-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/pcp/{name}*

policy-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/policy/{name}*

policy-list

Specification	Value
Type	*list*
Block object keys	

class-list

Description: class-list is a **JSON Block**. Please see below for *policy-list_class-list*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/policy/{name}/class-list*

name

Description Policy template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-list_class-list

Specification	Value
Type	*object*

client-ip-l3-dest

Description Use destination IP as client IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: client-ip-l3-dest and client-ip-l7-header are mutually exclusive

client-ip-l7-header

Description Use extract client IP address from L7 header

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: client-ip-l7-header and client-ip-l3-dest are mutually exclusive

header-name

Description Specify L7 header name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

lid-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/policy/{name}/class-list/lid/{lidnum}*

name

Description Class list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-list_class-list_lid-list

Specification	Value
Type	*list*
Block object keys	

action-value

Description 'forward': Forward the traffic even it exceeds limit; 'reset': Reset the connection when it exceeds limit;

Type: string

Supported Values: forward, reset

conn-limit

Description Connection limit

Type: number

Range: 0-1048575

conn-per

Description Per (Specify interval in number of 100ms)

Type: number

Range: 1-65535

conn-rate-limit

Description Specify connection rate limit

Type: number

Range: 1-2147483647

dns64

Description: dns64 is a **JSON Block**. Please see below for *policy-list_class-list_lid-list_dns64*

Type: Object

interval

Description Specify log interval in minutes, by default system will log every over limit instance

Type: number

Range: 1-255

lidnum

Description Specify a limit ID

Type: number

Range: 1-31

lockout

Description Don't accept any new connection for certain time (Lockout duration in minutes)

Type: number

Range: 1-1023

log

Description Log a message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

over-limit-action

Description Set action when exceeds limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

request-limit

Description Request limit (Specify request limit)

Type: number

Range: 0-1048575

request-per

Description Per (Specify interval in number of 100ms)

Type: number

Range: 1-65535

request-rate-limit

Description Request rate limit (Specify request rate limit)

Type: number

Range: 1-4294967295

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-list_class-list_lid-list_dns64

Specification	Value
Type	*object*

disable

Description Disable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exclusive-answer

Description Exclusive Answer in DNS Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

logging-list

Specification	Value
Type	*list*
Block object keys	

batched-logging-disable

Description Disable multiple logs per packet

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

custom

Description: custom is a **JSON Block**. Please see below for *logging-list_custom*

Type: Object

disable-log-by-destination

Description: disable-log-by-destination is a **JSON Block**. Please see below for *logging-list_disable-log-by-destination*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination*

enable-log-by-destination

Description: enable-log-by-destination is a **JSON Block**. Please see below for *logging-list_enable-log-by-destination*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination*

facility

Description 'kernel': 0: Kernel; 'user': 1: User-level; 'mail': 2: Mail; 'daemon': 3: System daemons; 'security-authorization': 4: Security/authorization; 'syslog': 5: Syslog internal; 'line-printer': 6: Line printer; 'news': 7: Network news; 'uucp': 8: UUCP subsystem; 'cron': 9: Time-related; 'security-authorization-private': 10: Private security/authorization; 'ftp': 11: FTP; 'ntp': 12: NTP; 'audit': 13: Audit; 'alert': 14: Alert; 'clock': 15: Clock-related; 'local0': 16: Local use 0; 'local1': 17: Local use 1; 'local2': 18: Local use 2; 'local3': 19: Local use

3; 'local4': 20: Local use 4; 'local5': 21: Local use 5; 'local6': 22: Local use 6; 'local7': 23: Local use 7;

Type: string

Supported Values: kernel, user, mail, daemon, security-authorization, syslog, line-printer, news, uucp, cron, security-authorization-private, ftp, ntp, audit, alert, clock, local0, local1, local2, local3, local4, local5, local6, local7

Default: local0

format

Description 'binary': Binary logging format; 'compact': Compact ASCII logging format (Hex format with compact representation); 'custom': Arbitrary custom logging format; 'default': Default A10 logging format (ASCII); 'rfc5424': RFC5424 compliant logging format; 'cef': Common Event Format for logging;

Type: string

Supported Values: binary, compact, custom, default, rfc5424, cef

Default: default

include-destination

Description Include the destination IP and port in logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-http

Description: include-http is a **JSON Block**. Please see below for *logging-list_include-http*

Type: Object

include-inside-user-mac

Description Include the inside user MAC address in logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-partition-name

Description Include partition name in logging events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-port-block-account

Description include bytes accounting information in port-batch-v2 port-mapping and fixed-nat user-ports messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-radius-attribute

Description: include-radius-attribute is a **JSON Block**. Please see below for *logging-list_include-radius-attribute*

Type: Object

include-session-byte-count

Description include byte count in session deletion logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-year

Description including the 4-digit year in CEF, compact and default logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log

Description: log is a **JSON Block**. Please see below for *logging-list_log*

Type: Object

log-receiver

Description: log-receiver is a **JSON Block**. Please see below for *logging-list_log-receiver*

Type: Object

name

Description Logging template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

resolution

Description 'seconds': Logging timestamp resolution in seconds (default); '10-milliseconds': Logging timestamp resolution in 10s of milli-seconds;

Type: string

Supported Values: seconds, 10-milliseconds

Default: seconds

rfc-custom

Description: rfc-custom is a **JSON Block**. Please see below for *logging-list_rfc-custom*

Type: Object

rule

Description: rule is a **JSON Block**. Please see below for *logging-list_rule*

Type: Object

service-group

Description Set NAT logging service-group

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

severity

Description: severity is a **JSON Block**. Please see below for *logging-list_severity*

Type: Object

shared

Description Service group is in shared patition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-address

Description: source-address is a **JSON Block**. Please see below for *logging-list_source-address*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/source-address*

source-port

Description: source-port is a **JSON Block**. Please see below for *logging-list_source-port*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging-list_include-http

Specification	Value
Type	*object*

file-extension

Description HTTP file extension

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

header-cfg

Type: List

l4-session-info

Description Log the L4 session information of the HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

method

Description Log the HTTP Request Method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

request-number

Description HTTP Request Number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logging-list_include-http_header-cfg

Specification	Value
Type	*list*
Block object keys	

custom-header-name

Description Header name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

custom-max-length

Description Max length for a HTTP request log (Max header length (Default: 100 char))

Type: number

Range: 100-1000

Default: 100

http-header

Description 'cookie': Log HTTP Cookie Header; 'referer': Log HTTP Referer Header; 'user-agent': Log HTTP User-Agent Header; 'header1': Log HTTP Header 1; 'header2': Log HTTP Header 2; 'header3': Log HTTP Header 3;

Type: string

Supported Values: cookie, referer, user-agent, header1, header2, header3

max-length

Description Max length for a HTTP request log (Max header length (Default: 100 char))

Type: number

Range: 100-1000

Default: 100

logging-list_enable-log-by-destination

Specification	Value
Type	*object*

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip/{ipv4-addr}*

ip6-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6/{ipv6-addr}*

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging-list_enable-log-by-destination_ip-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4-addr

Description Configure an IP subnet

Type: string

Format: ipv4-cidr

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging-list_enable-log-by-destination_ip-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

logging-list_enable-log-by-destination_ip-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

logging-list_enable-log-by-destination_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

logging-list_enable-log-by-destination_ip6-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6-addr

Description Configure an IPv6 subnet

Type: string

Format: ipv6-address-plen

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging-list_enable-log-by-destination_ip6-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

logging-list_enable-log-by-destination_ip6-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

logging-list_enable-log-by-destination_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

logging-list_severity

Specification	Value
Type	*object*

severity-string

Description 'emergency': 0: Emergency; 'alert': 1: Alert; 'critical': 2: Critical; 'error': 3: Error; 'warning': 4: Warning; 'notice': 5: Notice; 'informational': 6: Informational; 'debug': 7: Debug;

Type: string

Supported Values: emergency, alert, critical, error, warning, notice, informational, debug

Default: debug

Mutual Exclusion: severity-string and severity-val are mutually exclusive

severity-val

Description Logging severity level

Type: number

Range: 0-7

Default: 7

Mutual Exclusion: severity-val and severity-string are mutually exclusive

logging-list_custom

Specification	Value
Type	*object*

custom-header

Description 'use-syslog-header': Use syslog header as custom log header;

Type: string

Supported Values: use-syslog-header

custom-message

Description: custom-message is a **JSON Block**. Please see below for *logging-list_custom_custom-message*

Type: Object

custom-time-stamp-format

Description Customize the time stamp format (Customize the time-stamp format. Default:%Y%m%d%H%M%S)

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

logging-list_custom_custom-message

Specification	Value
Type	*object*

custom-dhcpv6-map-prefix-assigned

Description MAP DHCPv6 prefix assigned

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-dhcpv6-map-prefix-released

Description MAP DHCPv6 prefix released

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-dhcpv6-map-prefix-renewed

Description MAP DHCPv6 prefix renewed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-fixed-nat-allocated

Description Fixed-NAT allocated (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-fixed-nat-freed

Description Fixed-NAT freed (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-fixed-nat-interim-update

Description Fixed-NAT interim update (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-http-request-got

Description HTTP request got (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-allocated

Description Port allocated (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-allocated

Description Port Batch allocated (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-freed

Description Port Batch freed (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-v2-allocated

Description Port Batch v2 allocated (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-v2-freed

Description Port Batch v2 freed (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-v2-interim-update

Description Port Batch v2 interim update (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-freed

Description Port freed (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-session-created

Description Session created (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-session-deleted

Description Session deleted (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

logging-list_source-address

Specification	Value
Type	*object*

ip

Description Specify source IP address

Type: string

Format: ipv4-address

ipv6

Description Specify source IPv6 address

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging-list_source-port

Specification	Value
Type	*object*

any

Description Use any source port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: any and source-port-num are mutually exclusive

source-port-num

Description Set source port for sending NAT syslogs (default: 514)

Type: number

Range: 1-65535

Default: 514

Mutual Exclusion: source-port-num and any are mutually exclusive

logging-list_log

Specification	Value
Type	*object*

fixed-nat

Description: fixed-nat is a **JSON Block**. Please see below for *logging-list_log_fixed-nat*

Type: Object

http-requests

Description 'host': Log the HTTP Host Header; 'url': Log the HTTP Request URL;

Type: string

Supported Values: host, url

map-dhcpv6

Description: map-dhcpv6 is a **JSON Block**. Please see below for *logging-list_log_map-dhcpv6*

Type: Object

merged-style

Description Merge creation and deletion of session logs to one

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

one-to-one-nat

Description: one-to-one-nat is a **JSON Block**. Please see below for *logging-list_log_one-to-one-nat*

Type: Object

port-mappings

Description 'creation': Log only creation of NAT mappings; 'disable': Disable Log creation and deletion of NAT mappings; 'both': Log creation and deletion of NAT mappings;

Type: string

Supported Values: creation, disable, both

Default: both

port-overloading

Description Force logging of all port-overloading sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sessions

Description Log all data sessions created using NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-data

Description Log LSN Subscriber Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logging-list_log_one-to-one-nat

Specification	Value
Type	*object*

one-to-one-merged-style

Description Merge creation and deletion of session logs to one

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

one-to-one-nat-sessions

Description Log all One-to-One NAT sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logging-list_log_map-dhcpv6

Specification	Value
Type	*object*

map-dhcpv6-msg-type

Type: List

map-dhcpv6-prefix-all

Description Log MAP DHCPv6 prefix assignment/renewal/release

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: map-dhcpv6-prefix-all and map-dhcpv6-msg-type are mutually exclusive

logging-list_log_map-dhcpv6_map-dhcpv6-msg-type

Specification	Value
Type	*list*
Block object keys	

map-dhcpv6-msg-type

Description 'prefix-assignment': Log MAP DHCPv6 prefix assignment; 'prefix-renewal': Log MAP DHCPv6 prefix renewal; 'prefix-release': Log MAP DHCPv6 prefix release;

Type: string

Supported Values: prefix-assignment, prefix-renewal, prefix-release

Mutual Exclusion: map-dhcpv6-msg-type and map-dhcpv6-prefix-all are mutually exclusive

logging-list_log_fixed-nat

Specification	Value
Type	*object*

fixed-nat-http-requests

Description 'host': Log the HTTP Host Header; 'url': Log the HTTP Request URL;

Type: string

Supported Values: host, url

fixed-nat-merged-style

Description Merge creation and deletion of session logs to one

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fixed-nat-port-mappings

Description 'both': Log creation and deletion of NAT mappings; 'creation': Log creation of NAT mappings;

Type: string

Supported Values: both, creation

fixed-nat-sessions

Description Log all Fixed NAT sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-ports

Description: user-ports is a **JSON Block**. Please see below for *logging-list_log_fixed-nat_user-ports*

Type: Object

logging-list_log_fixed-nat_user-ports

Specification	Value
Type	*object*

days

Description Specify period in days

Type: number

Range: 1-30

start-time

Description Time when periodic logging starts (Specify start time(hh:mm))

Type: string

Format: time-hhmm

user-ports

Description Log Fixed NAT User Ports Configured

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logging-list_log-receiver

Specification	Value
Type	*object*

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

radius

Description Use RADIUS server for NAT logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-string

Description The RADIUS server's secret

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

logging-list_include-radius-attribute

Specification	Value
Type	*object*

attr-cfg

Type: List

framed-ipv6-prefix

Description Include radius attributes for the prefix

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

insert-if-not-existing

Description Configure what string is to be inserted for custom RADIUS attributes

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

no-quote

Description No quotation marks for RADIUS attributes in logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prefix-length

Description '32': Prefix length 32; '48': Prefix length 48; '64': Prefix length 64; '80': Prefix length 80; '96': Prefix length 96; '112': Prefix length 112;

Type: string

Supported Values: 32, 48, 64, 80, 96, 112

zero-in-custom-attr

Description Insert 0000 for standard and custom attributes in log string

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logging-list_include-radius-attribute_attr-cfg

Specification	Value
Type	*list*
Block object keys	

attr

Description 'imei': Include IMEI; 'imsi': Include IMSI; 'msisdn': Include MSISDN; 'custom1': Customized attribute 1; 'custom2': Customized attribute 2; 'custom3': Customized attribute 3; 'custom4': Customized attribute 4; 'custom5': Customized attribute 5; 'custom6': Customized attribute 6;

Type: string

Supported Values: imei, imsi, msisdn, custom1, custom2, custom3, custom4, custom5, custom6

attr-event

Description 'http-requests': Include in HTTP request logs; 'port-mappings': Include in port-mapping logs; 'sessions': Include in session logs; 'user-data': Include in user-data logs;

Type: string

Supported Values: http-requests, port-mappings, sessions, user-data

logging-list_rule

Specification	Value
Type	*object*

interim-update-interval

Description Log interim update of NAT mappings (Interim update interval in minutes(Interval is floored to a multiple of 5))

Type: number

Range: 15-120

rule-http-requests

Description: rule-http-requests is a **JSON Block**. Please see below for *logging-list_rule_rule-http-requests*

Type: Object

logging-list_rule_rule-http-requests

Specification	Value
Type	*object*

dest-port

Type: List

disable-sequence-check

Description Disable http packet sequence check and don't drop out of order packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-all-headers

Description Include all configured headers despite of absence in HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-every-http-request

Description Log every HTTP request in an HTTP 1.1 session (Default: Log the first HTTP request in a session)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-url-len

Description Max length of URL log (Max URL length (Default: 128 char))

Type: number

Range: 100-1000

Default: 128

logging-list_rule_rule-http-requests_dest-port

Specification	Value
Type	*list*
Block object keys	

dest-port-number

Description

Type: number

Range: 1-65535

include-byte-count

Description Include the byte count of HTTP Request/Response in CGN session deletion logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logging-list_disable-log-by-destination

Specification	Value
Type	*object*

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip/{ipv4-addr}*

ip6-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6/{ipv6-addr}*

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging-list_disable-log-by-destination_ip-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4-addr

Description Configure an IP subnet

Type: string

Format: ipv4-cidr

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging-list_disable-log-by-destination_ip-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

logging-list_disable-log-by-destination_ip-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

logging-list_disable-log-by-destination_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

logging-list_disable-log-by-destination_ip6-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6-addr

Description Configure an IPv6 subnet

Type: string

Format: ipv6-address-plen

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging-list_disable-log-by-destination_ip6-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

logging-list_disable-log-by-destination_ip6-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

logging-list_disable-log-by-destination_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

logging-list_rfc-custom

Specification	Value
Type	*object*

header

Description: header is a **JSON Block**. Please see below for *logging-list_rfc-custom_header*

Type: Object

message

Description: message is a **JSON Block**. Please see below for *logging-list_rfc-custom_message*

Type: Object

logging-list_rfc-custom_header

Specification	Value
Type	*object*

use-alternate-timestamp

Description Use alternate non-RFC5424 compliant timestamp. Ex: 1990 Jan 15 12:30:30

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logging-list_rfc-custom_message

Specification	Value
Type	*object*

dhcpv6-map-prefix-assigned

Description MAP DHCPv6 prefix assigned

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

dhcpv6-map-prefix-released

Description MAP DHCPv6 prefix released

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

dhcpv6-map-prefix-renewed

Description MAP DHCPv6 prefix renewed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

http-request-got

Description HTTP request got (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

ipv6-tech

Type: List

session-created

Description Session created (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

session-deleted

Description Session deleted (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

logging-list_rfc-custom_message_ipv6-tech

Specification	Value
Type	*list*
Block object keys	

fixed-nat-allocated

Description Fixed-NAT allocated (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

fixed-nat-freed

Description Fixed-NAT freed (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-allocated

Description Port allocated (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-batch-allocated

Description Port Batch allocated (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-batch-freed

Description Port Batch freed (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-batch-v2-allocated

Description Port Batch v2 allocated (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-batch-v2-freed

Description Port Batch v2 freed (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-freed

Description Port freed (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

tech-type

Description 'lsn': LSN; 'nat64': NAT64; 'ds-lite': DS-Lite; 'sixrd-nat64': 6rd-NAT64;

Type: string

Supported Values: lsn, nat64, ds-lite, sixrd-nat64

pcp-list

Specification	Value
Type	*list*
Block object keys	

allow-third-party-from-lan

Description Allow third party request coming from LAN (default is disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-third-party-from-wan

Description Allow third party request coming from WAN (default is disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

announce

Description PCP ANNOUNCE Opcode (default is enabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

check-client-nonce

Description To validate NONCE value in PCP request (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-map-filter

Description To disable processing of FILTER options in MAP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

map

Description PCP MAP Opcode (default is enabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

maximum

Description To set maximum lifetime of PCP mappings (default 1440 minutes)

Type: number

Range: 2-1440

Default: 1440

minimum

Description To set minimum lifetime of PCP mappings (default 2 minutes)

Type: number

Range: 2-1440

Default: 2

name

Description PCP Template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

pcp-server-port

Description PCP server listening port (default 5351) (PCP UDP destination port)

Type: number

Range: 1024-65535

Default: 5351

peer

Description PCP PEER Opcode (default is enabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-ip

Description Specify source IP address for IPv4 ANNOUNCE message

Type: string

Format: ipv4-address

source-ipv6

Description Specify source IPv6 address for IPv6 ANNOUNCE message

Type: string

Format: ipv6-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

http-alg-list

Specification	Value
Type	*list*
Block object keys	

header-name-client-ip

Description Header name (default: X-Forwarded-For)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: X-Forwarded-For

header-name-msisdn

Description Header name (default: X-MSISDN)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: X-MSISDN

include-tunnel-ip

Description Include the tunnel IP (applies to DS-Lite and 6RD-NAT64 sessions)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

method

Description 'append': Append if there is already a header (default); 'replace': Replace if there is already a header;

Type: string

Supported Values: append, replace

Default: append

name

Description HTTP-ALG template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

request-insert-client-ip

Description Insert Client IP into HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

request-insert-msisdn

Description Insert MSISDN into HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-list

Specification	Value
Type	*list*
Block object keys	

class-list

Description: class-list is a **JSON Block**. Please see below for *dns-list_class-list*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/dns/{name}/class-list*

default-policy

Description 'nocache': Cache disable; 'cache': Cache enable;

Type: string

Supported Values: nocache, cache

Default: nocache

disable-dns-template

Description Disable DNS template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns64

Description: dns64 is a **JSON Block**. Please see below for *dns-list_dns64*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/dns/{name}/dns64*

drop

Description Drop the malformed query

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: drop and forward are mutually exclusive

forward

Description Forward to service group (Service group name)

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: forward and drop are mutually exclusive

max-cache-size

Description Define maximum cache size (Maximum cache entry per VIP)

Type: number

name

Description DNS Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

period

Description Period in minutes

Type: number

Range: 1-10000

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-list_class-list

Specification	Value
Type	*object*

lid-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/dns/{name}/class-list/lid/{lidnum}*

name

Description Specify a class list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-list_class-list_lid-list

Specification	Value
Type	*list*
Block object keys	

action-value

Description 'dns-cache-disable': Disable DNS cache when it exceeds limit; 'dns-cache-enable': Enable DNS cache when it exceeds limit; 'forward': Forward the traffic even it exceeds limit;

Type: string

Supported Values: dns-cache-disable, dns-cache-enable, forward

conn-rate-limit

Description Connection rate limit

Type: number

Range: 1-2147483647

dns

Description: dns is a **JSON Block**. Please see below for *dns-list_class-list_lid-list_dns*

Type: Object

lidnum

Description Specify a limit ID

Type: number

Range: 1-31

lockout

Description Don't accept any new connection for certain time (Lockout duration in minutes)

Type: number

Range: 1-1023

log

Description Log a message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-interval

Description Log interval (minute, by default system will log every over limit instance)

Type: number

Range: 1-255

over-limit-action

Description Action when exceeds limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per

Description Per (Number of 100ms)

Type: number

Range: 1-65535

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-list_class-list_lid-list_dns

Specification	Value
Type	*object*

cache-action

Description 'cache-disable': Disable dns cache; 'cache-enable': Enable dns cache;

Type: string

Supported Values: cache-disable, cache-enable

Default: cache-disable

ttl

Description TTL for cache entry (TTL in seconds)

Type: number

Range: 1-65535

weight

Description Weight for cache entry

Type: number

Range: 1-7

dns-list_dns64

Specification	Value
Type	*object*

answer-only-disable

Description Disable Only translate the Answer Section

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-data

Description Set AA flag in DNS Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cache

Description Use a cached A-query response to provide AAAA query responses for the same hostname

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

change-query

Description Always change incoming AAAA DNS Query to A

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

compress-disable

Description Disable Always try DNS Compression

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deep-check-qr

Description Check DNS Question Record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deep-check-rr-disable

Description Disable Check DNS Response Records

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-cname-disable

Description Disable Drop DNS CNAME Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

edns-append

Description Append EDNS Record when send A Query to server

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable

Description Enable DNS64 (Need to config this option before config any other dns64 options)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fast-append

Description Append translated Records when original Response only has Answer Section

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ignore-rcode3-disable

Description Disable Ignore DNS error Response with rcode 3

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-qr-length

Description Max Question Record Length, default is 128

Type: number

Range: 1-1023

Default: 128

parallel-query

Description Forward AAAA Query & generate A Query in parallel

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

passive-query-disable

Description Disable Generate A query upon empty or error Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

retry

Description Retry count, default is 3 (Retry Number)

Type: number

Range: 0-15

Default: 3

single-response-disable

Description Disable Single Response which is used to avoid ambiguity

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Timeout to send additional Queries, unit: second, default is 1

Type: number

Range: 0-15

Default: 1

trans-ptr

Description Translate DNS PTR Records

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

trans-ptr-query

Description Translate DNS PTR Query

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ttl

Description Specify Max TTL in DNS Response, unit: second

Type: number

Range: 1-1000000000

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.371 cgnv6 template dns

DNS template

dns Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*dns-list*
Collection URI	/axapi/v3/cgnv6/template/dns
Element Name	dns
Element URI	/axapi/v3/cgnv6/template/dns/{name}
Element Attributes	dns_attributes
Partition Visibility	shared
Schema	`dns schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/dns

dns attributes

```
POST /axapi/v3/cgnv6/template/dns/
Payload:
{
    "dns": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/template/dns

dns attributes

Get Object

GET

/axapi/v3/cgnv6/template/dns/{name}

dns attributes

```
GET /axapi/v3/cgnv6/template/dns/a
Reponse:
{
    "dns": {
        "name": "a",
        "default-policy": "nocache",
        "disable-dns-template": 0,
        "drop": 0,
        "uuid": "9c358df4-08bb-11f0-951d-a9cf5715f49c",
        "user-tag": "a",
        "a10-url": "/axapi/v3/cgnv6/template/dns/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/template/dns

dns-list

Modify Object

POST

/axapi/v3/cgnv6/template/dns/{name}

dns attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/dns/{name}

dns attributes

```
PUT /axapi/v3/cgnv6/template/dns/a
Payload:
{
    "dns": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/template/dns

dns-list

Delete Object

DELETE

/axapi/v3/cgnv6/template/dns/{name}

dns attributes

```
DELETE /axapi/v3/cgnv6/template/dns/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

dns-list

dns-list is **JSON List** of *dns attributes*

dns-list : [

{ *dns attributes* },

{ *dns attributes* },

...

]

dns attributes

class-list

Description: class-list is a **JSON Block**. Please see below for *class-list*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/dns/{name}/class-list*

default-policy

Description 'nocache': Cache disable; 'cache': Cache enable;

Type: string

Supported Values: nocache, cache

Default: nocache

disable-dns-template

Description Disable DNS template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns64

Description: dns64 is a **JSON Block**. Please see below for *dns64*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/dns/{name}/dns64*

drop

Description Drop the malformed query

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: drop and forward are mutually exclusive

forward

Description Forward to service group (Service group name)

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: forward and drop are mutually exclusive

max-cache-size

Description Define maximum cache size (Maximum cache entry per VIP)

Type: number

name

Description DNS Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

period

Description Period in minutes

Type: number

Range: 1-10000

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

class-list

Specification	Value
Type	*object*

lid-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/dns/{name}/class-list/lid/{lidnum}*

name

Description Specify a class list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

class-list_lid-list

Specification	Value
Type	*list*
Block object keys	

action-value

Description 'dns-cache-disable': Disable DNS cache when it exceeds limit; 'dns-cache-enable': Enable DNS cache when it exceeds limit; 'forward': Forward the traffic even it exceeds limit;

Type: string

Supported Values: dns-cache-disable, dns-cache-enable, forward

conn-rate-limit

Description Connection rate limit

Type: number

Range: 1-2147483647

dns

Description: dns is a **JSON Block**. Please see below for *class-list_lid-list_dns*

Type: Object

lidnum

Description Specify a limit ID

Type: number

Range: 1-31

lockout

Description Don't accept any new connection for certain time (Lockout duration in minutes)

Type: number

Range: 1-1023

log

Description Log a message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-interval

Description Log interval (minute, by default system will log every over limit instance)

Type: number

Range: 1-255

over-limit-action

Description Action when exceeds limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per

Description Per (Number of 100ms)

Type: number

Range: 1-65535

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

class-list_lid-list_dns

Specification	Value
Type	*object*

cache-action

Description 'cache-disable': Disable dns cache; 'cache-enable': Enable dns cache;

Type: string

Supported Values: cache-disable, cache-enable

Default: cache-disable

ttl

Description TTL for cache entry (TTL in seconds)

Type: number

Range: 1-65535

weight

Description Weight for cache entry

Type: number

Range: 1-7

dns64

Specification	Value
Type	*object*

answer-only-disable

Description Disable Only translate the Answer Section

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-data

Description Set AA flag in DNS Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cache

Description Use a cached A-query response to provide AAAA query responses for the same hostname

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

change-query

Description Always change incoming AAAA DNS Query to A

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

compress-disable

Description Disable Always try DNS Compression

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deep-check-qr

Description Check DNS Question Record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deep-check-rr-disable

Description Disable Check DNS Response Records

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-cname-disable

Description Disable Drop DNS CNAME Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

edns-append

Description Append EDNS Record when send A Query to server

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable

Description Enable DNS64 (Need to config this option before config any other dns64 options)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fast-append

Description Append translated Records when original Response only has Answer Section

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ignore-rcode3-disable

Description Disable Ignore DNS error Response with rcode 3

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-qr-length

Description Max Question Record Length, default is 128

Type: number

Range: 1-1023

Default: 128

parallel-query

Description Forward AAAA Query & generate A Query in parallel

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

passive-query-disable

Description Disable Generate A query upon empty or error Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

retry

Description Retry count, default is 3 (Retry Number)

Type: number

Range: 0-15

Default: 3

single-response-disable

Description Disable Single Response which is used to avoid ambiguity

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Timeout to send additional Queries, unit: second, default is 1

Type: number

Range: 0-15

Default: 1

trans-ptr

Description Translate DNS PTR Records

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

trans-ptr-query

Description Translate DNS PTR Query

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ttl

Description Specify Max TTL in DNS Response, unit: second

Type: number

Range: 1-1000000000

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.372 cgnv6 template dns class-list

Classification list

class-list Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	class-list
Element URI	/axapi/v3/cgnv6/template/dns/{name}/class-list
Element Attributes	class-list_attributes
Partition Visibility	shared
Schema	`class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/dns/{name}/class-list

class-list attributes

```
POST /axapi/v3/cgnv6/template/dns/a/class-list
Payload:
{
    "class-list": {
        "name": "a"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/template/dns/{name}/class-list

class-list attributes

```
GET /axapi/v3/cgnv6/template/dns/a/class-list
Reponse:
{
    "class-list": {
        "name": "a",
        "uuid": "dcd8db0e-08bb-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/template/dns/a/class-list"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/template/dns/{name}/class-list

class-list attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/dns/{name}/class-list

class-list attributes

```
PUT /axapi/v3/cgnv6/template/dns/a/class-list
Payload:
{
    "class-list": {
        "name": "a"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/template/dns/{name}/class-list

class-list attributes

```
DELETE /axapi/v3/cgnv6/template/dns/a/class-list
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

class-list attributes

lid-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/dns/{name}/class-list/lid/{lidnum}*

name

Description Specify a class list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lid-list

Specification	Value
Type	*list*
Block object keys	

action-value

Description 'dns-cache-disable': Disable DNS cache when it exceeds limit; 'dns-cache-enable': Enable DNS cache when it exceeds limit; 'forward': Forward the traffic even it exceeds limit;

Type: string

Supported Values: dns-cache-disable, dns-cache-enable, forward

conn-rate-limit

Description Connection rate limit

Type: number

Range: 1-2147483647

dns

Description: dns is a **JSON Block**. Please see below for *lid-list_dns*

Type: Object

lidnum

Description Specify a limit ID

Type: number

Range: 1-31

lockout

Description Don't accept any new connection for certain time (Lockout duration in minutes)

Type: number

Range: 1-1023

log

Description Log a message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-interval

Description Log interval (minute, by default system will log every over limit instance)

Type: number

Range: 1-255

over-limit-action

Description Action when exceeds limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per

Description Per (Number of 100ms)

Type: number

Range: 1-65535

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lid-list_dns

Specification	Value
Type	*object*

cache-action

Description 'cache-disable': Disable dns cache; 'cache-enable': Enable dns cache;

Type: string

Supported Values: cache-disable, cache-enable

Default: cache-disable

ttl

Description TTL for cache entry (TTL in seconds)

Type: number

Range: 1-65535

weight

Description Weight for cache entry

Type: number

Range: 1-7

2.26.373 cgnv6 template dns class-list lid

Limit ID

lid Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*lidnum*
Collection Name	*lid-list*
Collection URI	/axapi/v3/cgnv6/template/dns/{name}/class-list/lid
Element Name	lid
Element URI	/axapi/v3/cgnv6/template/dns/{name}/class-list/lid/{lidnum}
Element Attributes	lid_attributes
Partition Visibility	shared
Schema	`lid schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/dns/{name}/class-list/lid

lid attributes

Create List

POST

/axapi/v3/cgnv6/template/dns/{name}/class-list/lid

lid attributes

Get Object

GET

/axapi/v3/cgnv6/template/dns/{name}/class-list/lid/{lidnum}

lid attributes

Get List

GET

/axapi/v3/cgnv6/template/dns/{name}/class-list/lid

lid-list

Modify Object

POST

/axapi/v3/cgnv6/template/dns/{name}/class-list/lid/{lidnum}

lid attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/dns/{name}/class-list/lid/{lidnum}

lid attributes

Replace List

PUT

/axapi/v3/cgnv6/template/dns/{name}/class-list/lid

lid-list

Delete Object

DELETE

/axapi/v3/cgnv6/template/dns/{name}/class-list/lid/{lidnum}

lid attributes

lid-list

lid-list is **JSON List** of *lid attributes*

lid-list : [

{ *lid attributes* },

{ *lid attributes* },

…

]

lid attributes

action-value

Description 'dns-cache-disable': Disable DNS cache when it exceeds limit; 'dns-cache-enable': Enable DNS cache when it exceeds limit; 'forward': Forward the traffic even it exceeds limit;

Type: string

Supported Values: dns-cache-disable, dns-cache-enable, forward

conn-rate-limit

Description Connection rate limit

Type: number

Range: 1-2147483647

dns

Description: dns is a **JSON Block**. Please see below for *dns*

Type: Object

lidnum

Description Specify a limit ID

Type: number

Range: 1-31

lockout

Description Don't accept any new connection for certain time (Lockout duration in minutes)

Type: number

Range: 1-1023

log

Description Log a message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-interval

Description Log interval (minute, by default system will log every over limit instance)

Type: number

Range: 1-255

over-limit-action

Description Action when exceeds limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per

Description Per (Number of 100ms)

Type: number

Range: 1-65535

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns

Specification	Value
Type	*object*

cache-action

Description 'cache-disable': Disable dns cache; 'cache-enable': Enable dns cache;

Type: string

Supported Values: cache-disable, cache-enable

Default: cache-disable

ttl

Description TTL for cache entry (TTL in seconds)

Type: number

Range: 1-65535

weight

Description Weight for cache entry

Type: number

Range: 1-7

2.26.374 cgnv6 template dns dns64

Enable DNS64

dns64 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dns64
Element URI	/axapi/v3/cgnv6/template/dns/{name}/dns64
Element Attributes	dns64_attributes
Partition Visibility	shared
Schema	`dns64 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/dns/{name}/dns64

dns64 attributes

```
POST /axapi/v3/cgnv6/template/dns/a/dns64
Payload:
{
    "dns64": {
        "enable": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/template/dns/{name}/dns64

dns64 attributes

```
GET /axapi/v3/cgnv6/template/dns/a/dns64
Reponse:
{
    "dns64": {
        "enable": 1,
        "answer-only-disable": 0,
        "auth-data": 0,
        "cache": 0,
        "change-query": 0,
        "compress-disable": 0,
        "deep-check-rr-disable": 0,
        "ignore-rcode3-disable": 0,
        "max-qr-length": 128,
        "parallel-query": 0,
        "passive-query-disable": 0,
        "retry": 3,
        "single-response-disable": 0,
        "timeout": 1,
        "trans-ptr": 0,
        "uuid": "379b781c-08bc-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/template/dns/a/dns64"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/template/dns/{name}/dns64

dns64 attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/dns/{name}/dns64

dns64 attributes

```
PUT /axapi/v3/cgnv6/template/dns/a/dns64
Payload:
{
    "dns64": {
        "enable": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/template/dns/{name}/dns64

dns64 attributes

```
DELETE /axapi/v3/cgnv6/template/dns/a/dns64
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

dns64 attributes

answer-only-disable

Description Disable Only translate the Answer Section

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-data

Description Set AA flag in DNS Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cache

Description Use a cached A-query response to provide AAAA query responses for the same hostname

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

change-query

Description Always change incoming AAAA DNS Query to A

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

compress-disable

Description Disable Always try DNS Compression

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deep-check-qr

Description Check DNS Question Record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deep-check-rr-disable

Description Disable Check DNS Response Records

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-cname-disable

Description Disable Drop DNS CNAME Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

edns-append

Description Append EDNS Record when send A Query to server

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable

Description Enable DNS64 (Need to config this option before config any other dns64 options)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fast-append

Description Append translated Records when original Response only has Answer Section

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ignore-rcode3-disable

Description Disable Ignore DNS error Response with rcode 3

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-qr-length

Description Max Question Record Length, default is 128

Type: number

Range: 1-1023

Default: 128

parallel-query

Description Forward AAAA Query & generate A Query in parallel

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

passive-query-disable

Description Disable Generate A query upon empty or error Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

retry

Description Retry count, default is 3 (Retry Number)

Type: number

Range: 0-15

Default: 3

single-response-disable

Description Disable Single Response which is used to avoid ambiguity

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description Timeout to send additional Queries, unit: second, default is 1

Type: number

Range: 0-15

Default: 1

trans-ptr

Description Translate DNS PTR Records

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

trans-ptr-query

Description Translate DNS PTR Query

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ttl

Description Specify Max TTL in DNS Response, unit: second

Type: number

Range: 1-1000000000

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.375 cgnv6 template http-alg

HTTP-ALG Template

http-alg Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*http-alg-list*
Collection URI	/axapi/v3/cgnv6/template/http-alg
Element Name	http-alg
Element URI	/axapi/v3/cgnv6/template/http-alg/{name}
Element Attributes	http-alg_attributes
Partition Visibility	shared
Schema	`http-alg schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/http-alg

http-alg attributes

```
POST /axapi/v3/cgnv6/template/http-alg/
Payload:
{
    "http-alg": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/template/http-alg

http-alg attributes

Get Object

GET

/axapi/v3/cgnv6/template/http-alg/{name}

http-alg attributes

```
GET /axapi/v3/cgnv6/template/http-alg/a
Reponse:
{
    "http-alg": {
        "name": "a",
        "request-insert-client-ip": 0,
        "request-insert-msisdn": 0,
        "uuid": "97ab27d4-08bc-11f0-951d-a9cf5715f49c",
        "user-tag": "a",
        "a10-url": "/axapi/v3/cgnv6/template/http-alg/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/template/http-alg

http-alg-list

Modify Object

POST

/axapi/v3/cgnv6/template/http-alg/{name}

http-alg attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/http-alg/{name}

http-alg attributes

```
PUT /axapi/v3/cgnv6/template/http-alg/a
Payload:
{
    "http-alg": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/template/http-alg

http-alg-list

Delete Object

DELETE

/axapi/v3/cgnv6/template/http-alg/{name}

http-alg attributes

```
DELETE /axapi/v3/cgnv6/template/http-alg/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

http-alg-list

http-alg-list is **JSON List** of *http-alg attributes*

http-alg-list : [

{ *http-alg attributes* },

{ *http-alg attributes* },

...

]

http-alg attributes

header-name-client-ip

Description Header name (default: X-Forwarded-For)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: X-Forwarded-For

header-name-msisdn

Description Header name (default: X-MSISDN)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: X-MSISDN

include-tunnel-ip

Description Include the tunnel IP (applies to DS-Lite and 6RD-NAT64 sessions)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

method

Description 'append': Append if there is already a header (default); 'replace': Replace if there is already a header;

Type: string

Supported Values: append, replace

Default: append

name

Description HTTP-ALG template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

request-insert-client-ip

Description Insert Client IP into HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

request-insert-msisdn

Description Insert MSISDN into HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.376 cgnv6 template logging

Logging Template

logging Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*logging-list*
Collection URI	/axapi/v3/cgnv6/template/logging
Element Name	logging
Element URI	/axapi/v3/cgnv6/template/logging/{name}
Element Attributes	logging_attributes
Partition Visibility	shared
Schema	`logging schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/logging

logging attributes

```
POST /axapi/v3/cgnv6/template/logging/
Payload:
{
    "logging": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/template/logging

logging attributes

Get Object

GET

/axapi/v3/cgnv6/template/logging/{name}

logging attributes

```
GET /axapi/v3/cgnv6/template/logging/a
Reponse:
{
    "logging": {
        "name": "a",
        "resolution": "seconds",
        "log": {
            "fixed-nat": {
                "fixed-nat-sessions": 0,
                "user-ports": {
                    "user-ports": 0
                }
            },
            "one-to-one-nat": {
                "one-to-one-nat-sessions": 0
            },
            "map-dhcpv6": {
                "map-dhcpv6-prefix-all": 0
            },
            "port-mappings": "both",
            "port-overloading": 0,
            "user-data": 0,
            "sessions": 0
        },
        "include-destination": 0,
        "include-year": 0,
        "include-inside-user-mac": 0,
        "include-partition-name": 0,
        "include-session-byte-count": 0,
```

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```
        "include-port-block-account": 0,
        "include-radius-attribute": {
            "no-quote": 0,
            "insert-if-not-existing": 0,
            "framed-ipv6-prefix": 0
        },
        "include-http": {
            "l4-session-info": 0,
            "method": 0,
            "request-number": 0,
            "file-extension": 0
        },
        "rule": {
            "rule-http-requests": {
                "log-every-http-request": 0,
                "max-url-len": 128,
                "include-all-headers": 0,
                "disable-sequence-check": 0
            }
        },
        "facility": "local0",
        "severity": {
            "severity-string": "debug"
        },
        "format": "default",
        "batched-logging-disable": 0,
        "log-receiver": {
            "radius": 0
        },
        "source-port": {
            "source-port-num": 514
        },
        "rfc-custom": {
            "header": {
                "use-alternate-timestamp": 0
            }
        },
        "uuid": "ef829bc2-08bc-11f0-951d-a9cf5715f49c",
        "user-tag": "a",
        "a10-url": "/axapi/v3/cgnv6/template/logging/a"
    }
}
```


Get List

GET

/axapi/v3/cgnv6/template/logging

logging-list

Modify Object

POST

/axapi/v3/cgnv6/template/logging/{name}

logging attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/logging/{name}

logging attributes

```
PUT /axapi/v3/cgnv6/template/logging/a
Payload:
{
    "logging": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/template/logging

logging-list

Delete Object

DELETE

/axapi/v3/cgnv6/template/logging/{name}

logging attributes

```
DELETE /axapi/v3/cgnv6/template/logging/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

logging-list

logging-list is **JSON List** of *logging attributes*

logging-list : [

{ *logging attributes* },

{ *logging attributes* },

...

]

logging attributes

batched-logging-disable

Description Disable multiple logs per packet

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

custom

Description: custom is a **JSON Block**. Please see below for *custom*

Type: Object

disable-log-by-destination

Description: disable-log-by-destination is a **JSON Block**. Please see below for *disable-log-by-destination*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination*

enable-log-by-destination

Description: enable-log-by-destination is a **JSON Block**. Please see below for *enable-log-by-destination*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination*

facility

Description 'kernel': 0: Kernel; 'user': 1: User-level; 'mail': 2: Mail; 'daemon': 3: System daemons; 'security-authorization': 4: Security/authorization; 'syslog': 5: Syslog internal; 'line-printer': 6: Line printer; 'news': 7: Network news; 'uucp': 8: UUCP subsystem; 'cron': 9: Time-related; 'security-authorization-private': 10: Private security/authorization; 'ftp': 11: FTP; 'ntp': 12: NTP; 'audit': 13: Audit; 'alert': 14: Alert; 'clock': 15: Clock-related; 'local0': 16: Local use 0; 'local1': 17: Local use 1; 'local2': 18: Local use 2; 'local3': 19: Local use 3; 'local4': 20: Local use 4; 'local5': 21: Local use 5; 'local6': 22: Local use 6; 'local7': 23: Local use 7;

Type: string

Supported Values: kernel, user, mail, daemon, security-authorization, syslog, line-printer, news, uucp, cron, security-authorization-private, ftp, ntp, audit, alert, clock, local0, local1, local2, local3, local4, local5, local6, local7

Default: local0

format

Description 'binary': Binary logging format; 'compact': Compact ASCII logging format (Hex format with compact representation); 'custom': Arbitrary custom logging format; 'default': Default A10 logging format (ASCII); 'rfc5424': RFC5424 compliant logging format; 'cef': Common Event Format for logging;

Type: string

Supported Values: binary, compact, custom, default, rfc5424, cef

Default: default

include-destination

Description Include the destination IP and port in logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-http

Description: include-http is a **JSON Block**. Please see below for *include-http*

Type: Object

include-inside-user-mac

Description Include the inside user MAC address in logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-partition-name

Description Include partition name in logging events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-port-block-account

Description include bytes accounting information in port-batch-v2 port-mapping and fixed-nat user-ports messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-radius-attribute

Description: include-radius-attribute is a **JSON Block**. Please see below for *include-radius-attribute*

Type: Object

include-session-byte-count

Description include byte count in session deletion logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-year

Description including the 4-digit year in CEF, compact and default logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log

Description: log is a **JSON Block**. Please see below for *log*

Type: Object

log-receiver

Description: log-receiver is a **JSON Block**. Please see below for *log-receiver*

Type: Object

name

Description Logging template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

resolution

Description 'seconds': Logging timestamp resolution in seconds (default); '10-milliseconds': Logging timestamp resolution in 10s of milli-seconds;

Type: string

Supported Values: seconds, 10-milliseconds

Default: seconds

rfc-custom

Description: rfc-custom is a **JSON Block**. Please see below for *rfc-custom*

Type: Object

rule

Description: rule is a **JSON Block**. Please see below for *rule*

Type: Object

service-group

Description Set NAT logging service-group

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

severity

Description: severity is a **JSON Block**. Please see below for *severity*

Type: Object

shared

Description Service group is in shared patition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-address

Description: source-address is a **JSON Block**. Please see below for *source-address*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/source-address*

source-port

Description: source-port is a **JSON Block**. Please see below for *source-port*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

include-http

Specification	Value
Type	*object*

file-extension

Description HTTP file extension

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

header-cfg

Type: List

l4-session-info

Description Log the L4 session information of the HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

method

Description Log the HTTP Request Method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

request-number

Description HTTP Request Number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-http_header-cfg

Specification	Value
Type	*list*
Block object keys	

custom-header-name

Description Header name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

custom-max-length

Description Max length for a HTTP request log (Max header length (Default: 100 char))

Type: number

Range: 100-1000

Default: 100

http-header

Description 'cookie': Log HTTP Cookie Header; 'referer': Log HTTP Referer Header; 'user-agent': Log HTTP User-Agent Header; 'header1': Log HTTP Header 1; 'header2': Log HTTP Header 2; 'header3': Log HTTP Header 3;

Type: string

Supported Values: cookie, referer, user-agent, header1, header2, header3

max-length

Description Max length for a HTTP request log (Max header length (Default: 100 char))

Type: number

Range: 100-1000

Default: 100

enable-log-by-destination

Specification	Value
Type	*object*

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip/{ipv4-addr}*

ip6-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6/{ipv6-addr}*

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

enable-log-by-destination_ip-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4-addr

Description Configure an IP subnet

Type: string

Format: ipv4-cidr

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

enable-log-by-destination_ip-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

enable-log-by-destination_ip-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

enable-log-by-destination_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

enable-log-by-destination_ip6-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6-addr

Description Configure an IPv6 subnet

Type: string

Format: ipv6-address-plen

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

enable-log-by-destination_ip6-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

enable-log-by-destination_ip6-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

enable-log-by-destination_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

severity

Specification	Value
Type	*object*

severity-string

Description 'emergency': 0: Emergency; 'alert': 1: Alert; 'critical': 2: Critical; 'error': 3: Error; 'warning': 4: Warning; 'notice': 5: Notice; 'informational': 6: Informational; 'debug': 7: Debug;

Type: string

Supported Values: emergency, alert, critical, error, warning, notice, informational, debug

Default: debug

Mutual Exclusion: severity-string and severity-val are mutually exclusive

severity-val

Description Logging severity level

Type: number

Range: 0-7

Default: 7

Mutual Exclusion: severity-val and severity-string are mutually exclusive

custom

Specification	Value
Type	*object*

custom-header

Description 'use-syslog-header': Use syslog header as custom log header;

Type: string

Supported Values: use-syslog-header

custom-message

Description: custom-message is a **JSON Block**. Please see below for *custom_custom-message*

Type: Object

custom-time-stamp-format

Description Customize the time stamp format (Customize the time-stamp format. Default:%Y%m%d%H%M%S)

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

custom_custom-message

Specification	Value
Type	*object*

custom-dhcpv6-map-prefix-assigned

Description MAP DHCPv6 prefix assigned

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-dhcpv6-map-prefix-released

Description MAP DHCPv6 prefix released

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-dhcpv6-map-prefix-renewed

Description MAP DHCPv6 prefix renewed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-fixed-nat-allocated

Description Fixed-NAT allocated (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-fixed-nat-freed

Description Fixed-NAT freed (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-fixed-nat-interim-update

Description Fixed-NAT interim update (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-http-request-got

Description HTTP request got (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-allocated

Description Port allocated (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-allocated

Description Port Batch allocated (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-freed

Description Port Batch freed (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-v2-allocated

Description Port Batch v2 allocated (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-v2-freed

Description Port Batch v2 freed (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-batch-v2-interim-update

Description Port Batch v2 interim update (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-port-freed

Description Port freed (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-session-created

Description Session created (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-session-deleted

Description Session deleted (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

source-address

Specification	Value
Type	*object*

ip

Description Specify source IP address

Type: string

Format: ipv4-address

ipv6

Description Specify source IPv6 address

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

source-port

Specification	Value
Type	*object*

any

Description Use any source port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: any and source-port-num are mutually exclusive

source-port-num

Description Set source port for sending NAT syslogs (default: 514)

Type: number

Range: 1-65535

Default: 514

Mutual Exclusion: source-port-num and any are mutually exclusive

log

Specification	Value
Type	*object*

fixed-nat

Description: fixed-nat is a **JSON Block**. Please see below for *log_fixed-nat*

Type: Object

http-requests

Description 'host': Log the HTTP Host Header; 'url': Log the HTTP Request URL;

Type: string

Supported Values: host, url

map-dhcpv6

Description: map-dhcpv6 is a **JSON Block**. Please see below for *log_map-dhcpv6*

Type: Object

merged-style

Description Merge creation and deletion of session logs to one

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

one-to-one-nat

Description: one-to-one-nat is a **JSON Block**. Please see below for *log_one-to-one-nat*

Type: Object

port-mappings

Description 'creation': Log only creation of NAT mappings; 'disable': Disable Log creation and deletion of NAT mappings; 'both': Log creation and deletion of NAT mappings;

Type: string

Supported Values: creation, disable, both

Default: both

port-overloading

Description Force logging of all port-overloading sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sessions

Description Log all data sessions created using NAT

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-data

Description Log LSN Subscriber Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log_one-to-one-nat

Specification	Value
Type	*object*

one-to-one-merged-style

Description Merge creation and deletion of session logs to one

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

one-to-one-nat-sessions

Description Log all One-to-One NAT sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log_map-dhcpv6

Specification	Value
Type	*object*

map-dhcpv6-msg-type

Type: List

map-dhcpv6-prefix-all

Description Log MAP DHCPv6 prefix assignment/renewal/release

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: map-dhcpv6-prefix-all and map-dhcpv6-msg-type are mutually exclusive

log_map-dhcpv6_map-dhcpv6-msg-type

Specification	Value
Type	*list*
Block object keys	

map-dhcpv6-msg-type

Description 'prefix-assignment': Log MAP DHCPv6 prefix assignment; 'prefix-renewal': Log MAP DHCPv6 prefix renewal; 'prefix-release': Log MAP DHCPv6 prefix release;

Type: string

Supported Values: prefix-assignment, prefix-renewal, prefix-release

Mutual Exclusion: map-dhcpv6-msg-type and map-dhcpv6-prefix-all are mutually exclusive

log_fixed-nat

Specification	Value
Type	*object*

fixed-nat-http-requests

Description 'host': Log the HTTP Host Header; 'url': Log the HTTP Request URL;

Type: string

Supported Values: host, url

fixed-nat-merged-style

Description Merge creation and deletion of session logs to one

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fixed-nat-port-mappings

Description 'both': Log creation and deletion of NAT mappings; 'creation': Log creation of NAT mappings;

Type: string

Supported Values: both, creation

fixed-nat-sessions

Description Log all Fixed NAT sessions

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-ports

Description: user-ports is a **JSON Block**. Please see below for *log_fixed-nat_user-ports*

Type: Object

log_fixed-nat_user-ports

Specification	Value
Type	*object*

days

Description Specify period in days

Type: number

Range: 1-30

start-time

Description Time when periodic logging starts (Specify start time(hh:mm))

Type: string

Format: time-hhmm

user-ports

Description Log Fixed NAT User Ports Configured

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-receiver

Specification	Value
Type	*object*

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

radius

Description Use RADIUS server for NAT logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-string

Description The RADIUS server's secret

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

include-radius-attribute

Specification	Value
Type	*object*

attr-cfg

Type: List

framed-ipv6-prefix

Description Include radius attributes for the prefix

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

insert-if-not-existing

Description Configure what string is to be inserted for custom RADIUS attributes

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

no-quote

Description No quotation marks for RADIUS attributes in logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prefix-length

Description '32': Prefix length 32; '48': Prefix length 48; '64': Prefix length 64; '80': Prefix length 80; '96': Prefix length 96; '112': Prefix length 112;

Type: string

Supported Values: 32, 48, 64, 80, 96, 112

zero-in-custom-attr

Description Insert 0000 for standard and custom attributes in log string

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-radius-attribute_attr-cfg

Specification	Value
Type	*list*
Block object keys	

attr

Description 'imei': Include IMEI; 'imsi': Include IMSI; 'msisdn': Include MSISDN; 'custom1': Customized attribute 1; 'custom2': Customized attribute 2; 'custom3': Customized attribute 3; 'custom4': Customized attribute 4; 'custom5': Customized attribute 5; 'custom6': Customized attribute 6;

Type: string

Supported Values: imei, imsi, msisdn, custom1, custom2, custom3, custom4, custom5, custom6

attr-event

Description 'http-requests': Include in HTTP request logs; 'port-mappings': Include in port-mapping logs; 'sessions': Include in session logs; 'user-data': Include in user-data logs;

Type: string

Supported Values: http-requests, port-mappings, sessions, user-data

rule

Specification	Value
Type	*object*

interim-update-interval

Description Log interim update of NAT mappings (Interim update interval in minutes(Interval is floored to a multiple of 5))

Type: number

Range: 15-120

rule-http-requests

Description: rule-http-requests is a **JSON Block**. Please see below for *rule_rule-http-requests*

Type: Object

rule_rule-http-requests

Specification	Value
Type	*object*

dest-port

Type: List

disable-sequence-check

Description Disable http packet sequence check and don't drop out of order packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-all-headers

Description Include all configured headers despite of absence in HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-every-http-request

Description Log every HTTP request in an HTTP 1.1 session (Default: Log the first HTTP request in a session)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-url-len

Description Max length of URL log (Max URL length (Default: 128 char))

Type: number

Range: 100-1000

Default: 128

rule_rule-http-requests_dest-port

Specification	Value
Type	*list*
Block object keys	

dest-port-number

Description

Type: number

Range: 1-65535

include-byte-count

Description Include the byte count of HTTP Request/Response in CGN session deletion logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-log-by-destination

Specification	Value
Type	*object*

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip/{ipv4-addr}*

ip6-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6/{ipv6-addr}*

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

disable-log-by-destination_ip-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4-addr

Description Configure an IP subnet

Type: string

Format: ipv4-cidr

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

disable-log-by-destination_ip-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

disable-log-by-destination_ip-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

disable-log-by-destination_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

disable-log-by-destination_ip6-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6-addr

Description Configure an IPv6 subnet

Type: string

Format: ipv6-address-plen

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

disable-log-by-destination_ip6-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

disable-log-by-destination_ip6-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

disable-log-by-destination_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

rfc-custom

Specification	Value
Type	*object*

header

Description: header is a **JSON Block**. Please see below for *rfc-custom_header*

Type: Object

message

Description: message is a **JSON Block**. Please see below for *rfc-custom_message*

Type: Object

rfc-custom_header

Specification	Value
Type	*object*

use-alternate-timestamp

Description Use alternate non-RFC5424 compliant timestamp. Ex: 1990 Jan 15 12:30:30

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

rfc-custom_message

Specification	Value
Type	*object*

dhcpv6-map-prefix-assigned

Description MAP DHCPv6 prefix assigned

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

dhcpv6-map-prefix-released

Description MAP DHCPv6 prefix released

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

dhcpv6-map-prefix-renewed

Description MAP DHCPv6 prefix renewed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

http-request-got

Description HTTP request got (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

ipv6-tech

Type: List

session-created

Description Session created (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

session-deleted

Description Session deleted (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

rfc-custom_message_ipv6-tech

Specification	Value
Type	*list*
Block object keys	

fixed-nat-allocated

Description Fixed-NAT allocated (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

fixed-nat-freed

Description Fixed-NAT freed (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-allocated

Description Port allocated (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-batch-allocated

Description Port Batch allocated (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-batch-freed

Description Port Batch freed (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-batch-v2-allocated

Description Port Batch v2 allocated (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-batch-v2-freed

Description Port Batch v2 freed (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

port-freed

Description Port freed (Custom message string. Should be in the format of "MSGID [STRUCTURED-DATA] MSG")

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

tech-type

Description 'lsn': LSN; 'nat64': NAT64; 'ds-lite': DS-Lite; 'sixrd-nat64': 6rd-NAT64;

Type: string

Supported Values: lsn, nat64, ds-lite, sixrd-nat64

2.26.377 cgnv6 template logging disable-log-by-destination

Disable logging by destination ip address protocol and port

disable-log-by-destination Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	disable-log-by-destination
Element URI	/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination
Element Attributes	disable-log-by-destination_attributes
Partition Visibility	shared
Schema	`disable-log-by-destination schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination

disable-log-by-destination attributes

```
POST /axapi/v3/cgnv6/template/logging/a/disable-log-by-destination
Payload:
{
    "disable-log-by-destination": {
        "ip-list": [
            {
                "ipv4-addr": "6.0.0.0/8",
                "user-tag": "a"
            }
        ],
        "tcp-list": [
            {
                "tcp-port-start": 1,
                "tcp-port-end": 1
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination

disable-log-by-destination attributes

```
GET /axapi/v3/cgnv6/template/logging/a/disable-log-by-destination
Reponse:
{
    "disable-log-by-destination": {
        "tcp-list": [
            {
                "tcp-port-start": 1,
```

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```
                "tcp-port-end": 1
            }
        ],
        "icmp": 0,
        "others": 0,
        "uuid": "8813a830-08be-11f0-951d-a9cf5715f49c",
        "ip-list": [
            {
                "ipv4-addr": "6.0.0.0/8",
                "icmp": 0,
                "others": 0,
                "uuid": "8813c69e-08be-11f0-951d-a9cf5715f49c",
                "user-tag": "a",
                "a10-url": "/axapi/v3/cgnv6/template/logging/a/disable-log-by-
↪destination/ip/6.0.0.0%2F8"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/template/logging/a/disable-log-by-destination"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination

disable-log-by-destination attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination

disable-log-by-destination attributes

```
PUT /axapi/v3/cgnv6/template/logging/a/disable-log-by-destination
Payload:
{
    "disable-log-by-destination": {
        "ip-list": [
            {
                "ipv4-addr": "6.0.0.0/8",
                "tcp-list": [
                    {
                        "tcp-port-start": 2,
                        "tcp-port-end": 2
                    }
                ]
            }
        ],
        "tcp-list": [
            {
                "tcp-port-start": 2,
```

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```
                "tcp-port-end": 2
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination

disable-log-by-destination attributes

```
DELETE /axapi/v3/cgnv6/template/logging/a/disable-log-by-destination
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

disable-log-by-destination attributes

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip/{ipv4-addr}*

ip6-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6/{ipv6-addr}*

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4-addr

Description Configure an IP subnet

Type: string

Format: ipv4-cidr

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

ip-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

ip6-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6-addr

Description Configure an IPv6 subnet

Type: string

Format: ipv6-address-plen

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip6-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

ip6-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

2.26.378 cgnv6 template logging disable-log-by-destination ip

Configure a filter IP enrty

ip Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ipv4-addr*
Collection Name	*ip-list*
Collection URI	/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip
Element Name	ip
Element URI	/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip/{ipv4-addr}
Element Attributes	ip_attributes
Partition Visibility	shared
Schema	`ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip

ip attributes

Create List

POST

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip

ip attributes

Get Object

GET

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip/{ipv4-addr}

ip attributes

Get List

GET

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip

ip-list

Modify Object

POST

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip/{ipv4-addr}

ip attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip/{ipv4-addr}

ip attributes

Replace List

PUT

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip

ip-list

Delete Object

DELETE

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip/{ipv4-addr}

ip attributes

ip-list

ip-list is **JSON List** of *ip attributes*

```
ip-list : [
        { ip attributes },
        { ip attributes },
        ...
    ]
```

ip attributes

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4-addr

Description Configure an IP subnet

Type: string

Format: ipv4-cidr

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

2.26.379 cgnv6 template logging disable-log-by-destination ip6

Configure a filter IPv6 enrty

ip6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ipv6-addr*
Collection Name	*ip6-list*
Collection URI	/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6
Element Name	ip6
Element URI	/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6/{ipv6-addr}
Element Attributes	ip6_attributes
Partition Visibility	shared
Schema	`ip6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6

ip6 attributes

Create List

POST

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6

ip6 attributes

Get Object

GET

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6/{ipv6-addr}

ip6 attributes

Get List

GET

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6

ip6-list

Modify Object

POST

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6/{ipv6-addr}

ip6 attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6/{ipv6-addr}

ip6 attributes

Replace List

PUT

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6

ip6-list

Delete Object

DELETE

/axapi/v3/cgnv6/template/logging/{name}/disable-log-by-destination/ip6/{ipv6-addr}

ip6 attributes

ip6-list

ip6-list is **JSON List** of *ip6 attributes*

```
ip6-list : [
        { ip6 attributes },
        { ip6 attributes },
        ...
    ]
```

ip6 attributes

icmp

Description Disable logging for icmp traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6-addr

Description Configure an IPv6 subnet

Type: string

Format: ipv6-address-plen

others

Description Disable logging for other L4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

2.26.380 cgnv6 template logging enable-log-by-destination

Enable CGNAT logging by the destination IP address, protocol, and port

enable-log-by-destination Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	enable-log-by-destination
Element URI	/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination
Element Attributes	enable-log-by-destination_attributes
Partition Visibility	shared
Schema	`enable-log-by-destination schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination

enable-log-by-destination attributes

```
POST /axapi/v3/cgnv6/template/logging/a/enable-log-by-destination
Payload:
{
    "enable-log-by-destination": {
        "ip-list": [
            {
                "ipv4-addr": "6.0.0.0/8",
                "user-tag": "a"
            }
        ],
        "tcp-list": [
            {
                "tcp-port-start": 1,
                "tcp-port-end": 1
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination

enable-log-by-destination attributes

```
GET /axapi/v3/cgnv6/template/logging/a/enable-log-by-destination
Reponse:
```

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```
{
    "enable-log-by-destination": {
        "tcp-list": [
            {
                "tcp-port-start": 1,
                "tcp-port-end": 1
            }
        ],
        "icmp": 0,
        "others": 0,
        "uuid": "7fadce68-08bf-11f0-951d-a9cf5715f49c",
        "ip-list": [
            {
                "ipv4-addr": "6.0.0.0/8",
                "icmp": 0,
                "others": 0,
                "uuid": "7fadf1ae-08bf-11f0-951d-a9cf5715f49c",
                "user-tag": "a",
                "a10-url": "/axapi/v3/cgnv6/template/logging/a/enable-log-by-destination/
↪ip/6.0.0.0%2F8"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/template/logging/a/enable-log-by-destination"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination

enable-log-by-destination attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination

enable-log-by-destination attributes

```
PUT /axapi/v3/cgnv6/template/logging/a/enable-log-by-destination
Payload:
{
    "enable-log-by-destination": {
        "ip-list": [
            {
                "ipv4-addr": "6.0.0.0/8",
                "tcp-list": [
                    {
                        "tcp-port-start": 2,
                        "tcp-port-end": 2
                    }
                ]
```

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(continued from previous page)

```
            }
        ],
        "tcp-list": [
            {
                "tcp-port-start": 2,
                "tcp-port-end": 2
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination

enable-log-by-destination attributes

```
DELETE /axapi/v3/cgnv6/template/logging/a/enable-log-by-destination
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

enable-log-by-destination attributes

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip/{ipv4-addr}*

ip6-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6/{ipv6-addr}*

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4-addr

Description Configure an IP subnet

Type: string

Format: ipv4-cidr

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

ip-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

ip6-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6-addr

Description Configure an IPv6 subnet

Type: string

Format: ipv6-address-plen

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip6-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

ip6-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

2.26.381 cgnv6 template logging enable-log-by-destination ip

Configure a filter of IP entry

ip Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ipv4-addr*
Collection Name	*ip-list*
Collection URI	/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip
Element Name	ip
Element URI	/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip/{ipv4-addr}
Element Attributes	ip_attributes
Partition Visibility	shared
Schema	`ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip

ip attributes

Create List

POST

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip

ip attributes

Get Object

GET

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip/{ipv4-addr}

ip attributes

Get List

GET

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip

ip-list

Modify Object

POST

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip/{ipv4-addr}

ip attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip/{ipv4-addr}

ip attributes

Replace List

PUT

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip

ip-list

Delete Object

DELETE

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip/{ipv4-addr}

ip attributes

ip-list

ip-list is **JSON List** of *ip attributes*

```
ip-list : [
        { ip attributes },
        { ip attributes },
        ...
    ]
```

ip attributes

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4-addr

Description Configure an IP subnet

Type: string

Format: ipv4-cidr

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

2.26.382 cgnv6 template logging enable-log-by-destination ip6

Configure a filter of IPv6 entry

ip6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ipv6-addr*
Collection Name	*ip6-list*
Collection URI	/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6
Element Name	ip6
Element URI	/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6/{ipv6-addr}
Element Attributes	ip6_attributes
Partition Visibility	shared
Schema	`ip6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6

ip6 attributes

Create List

POST

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6

ip6 attributes

Get Object

GET

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6/{ipv6-addr}

ip6 attributes

Get List

GET

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6

ip6-list

Modify Object

POST

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6/{ipv6-addr}

ip6 attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6/{ipv6-addr}

ip6 attributes

Replace List

PUT

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6

ip6-list

Delete Object

DELETE

/axapi/v3/cgnv6/template/logging/{name}/enable-log-by-destination/ip6/{ipv6-addr}

ip6 attributes

ip6-list

ip6-list is **JSON List** of *ip6 attributes*

```
ip6-list : [
        { ip6 attributes },
        { ip6 attributes },
        ...
    ]
```

ip6 attributes

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6-addr

Description Configure an IPv6 subnet

Type: string

Format: ipv6-address-plen

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

2.26.383 cgnv6 template logging source-address

Specify source address of logging packet

source-address Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	source-address
Element URI	/axapi/v3/cgnv6/template/logging/{name}/source-address
Element Attributes	source-address_attributes
Partition Visibility	shared
Schema	`source-address schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/logging/{name}/source-address

source-address attributes

```
POST /axapi/v3/cgnv6/template/logging/a/source-address
Payload:
{
    "source-address": {
        "ip": "3.3.3.3"
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/template/logging/{name}/source-address

source-address attributes

```
GET /axapi/v3/cgnv6/template/logging/a/source-address
Reponse:
{
    "source-address": {
        "ip": "3.3.3.3",
        "uuid": "36166b9c-08c0-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/template/logging/a/source-address"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/template/logging/{name}/source-address

source-address attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/logging/{name}/source-address

source-address attributes

```
PUT /axapi/v3/cgnv6/template/logging/a/source-address
Payload:
{
    "source-address": {
        "ip": "3.3.3.4"
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/template/logging/{name}/source-address

source-address attributes

```
DELETE /axapi/v3/cgnv6/template/logging/a/source-address
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

source-address attributes

ip

Description Specify source IP address

Type: string

Format: ipv4-address

ipv6

Description Specify source IPv6 address

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.384 cgnv6 template pcp

Port Control Protocol Template

pcp Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*pcp-list*
Collection URI	/axapi/v3/cgnv6/template/pcp
Element Name	pcp
Element URI	/axapi/v3/cgnv6/template/pcp/{name}
Element Attributes	pcp_attributes
Partition Visibility	shared
Schema	`pcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/pcp

pcp attributes

```
POST /axapi/v3/cgnv6/template/pcp/
Payload:
{
    "pcp": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/template/pcp

pcp attributes

Get Object

GET

/axapi/v3/cgnv6/template/pcp/{name}

pcp attributes

```
GET /axapi/v3/cgnv6/template/pcp/a
Reponse:
{
    "pcp": {
        "name": "a",
        "allow-third-party-from-lan": 0,
        "allow-third-party-from-wan": 0,
        "check-client-nonce": 0,
        "disable-map-filter": 0,
        "announce": 0,
        "map": 0,
        "peer": 0,
        "maximum": 1440,
        "minimum": 2,
        "pcp-server-port": 5351,
        "uuid": "52e4f1bc-08c0-11f0-951d-a9cf5715f49c",
        "user-tag": "a",
        "a10-url": "/axapi/v3/cgnv6/template/pcp/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/template/pcp

pcp-list

Modify Object

POST

/axapi/v3/cgnv6/template/pcp/{name}

pcp attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/pcp/{name}

pcp attributes

```
PUT /axapi/v3/cgnv6/template/pcp/a
Payload:
{
    "pcp": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/template/pcp

pcp-list

Delete Object

DELETE

/axapi/v3/cgnv6/template/pcp/{name}

pcp attributes

```
DELETE /axapi/v3/cgnv6/template/pcp/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

pcp-list

pcp-list is **JSON List** of *pcp attributes*

pcp-list : [

{ *pcp attributes* },

{ *pcp attributes* },

...

]

pcp attributes

allow-third-party-from-lan

Description Allow third party request coming from LAN (default is disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-third-party-from-wan

Description Allow third party request coming from WAN (default is disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

announce

Description PCP ANNOUNCE Opcode (default is enabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

check-client-nonce

Description To validate NONCE value in PCP request (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-map-filter

Description To disable processing of FILTER options in MAP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

map

Description PCP MAP Opcode (default is enabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

maximum

Description To set maximum lifetime of PCP mappings (default 1440 minutes)

Type: number

Range: 2-1440

Default: 1440

minimum

Description To set minimum lifetime of PCP mappings (default 2 minutes)

Type: number

Range: 2-1440

Default: 2

name

Description PCP Template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

pcp-server-port

Description PCP server listening port (default 5351) (PCP UDP destination port)

Type: number

Range: 1024-65535

Default: 5351

peer

Description PCP PEER Opcode (default is enabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-ip

Description Specify source IP address for IPv4 ANNOUNCE message

Type: string

Format: ipv4-address

source-ipv6

Description Specify source IPv6 address for IPv6 ANNOUNCE message

Type: string

Format: ipv6-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.26.385 cgnv6 template policy

Policy config

policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*policy-list*
Collection URI	/axapi/v3/cgnv6/template/policy
Element Name	policy
Element URI	/axapi/v3/cgnv6/template/policy/{name}
Element Attributes	policy_attributes
Partition Visibility	shared
Schema	`policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/policy

policy attributes

```
POST /axapi/v3/cgnv6/template/policy/
Payload:
{
    "policy": {
        "name": "a"
    }
}
```

Create List

POST

/axapi/v3/cgnv6/template/policy

policy attributes

Get Object

GET

/axapi/v3/cgnv6/template/policy/{name}

policy attributes

```
GET /axapi/v3/cgnv6/template/policy/a
Reponse:
{
    "policy": {
        "name": "a",
        "uuid": "aab12f78-08c0-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/template/policy/a"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/template/policy

policy-list

Modify Object

POST

/axapi/v3/cgnv6/template/policy/{name}

policy attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/policy/{name}

policy attributes

```
PUT /axapi/v3/cgnv6/template/policy/a
Payload:
{
    "policy": {
        "name": "a"
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/template/policy

policy-list

Delete Object

DELETE

/axapi/v3/cgnv6/template/policy/{name}

policy attributes

```
DELETE /axapi/v3/cgnv6/template/policy/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

policy-list

policy-list is **JSON List** of *policy attributes*

policy-list : [

{ *policy attributes* },

{ *policy attributes* },

...

]

policy attributes

class-list

Description: class-list is a **JSON Block**. Please see below for *class-list*

Type: Object

Reference Object: */axapi/v3/cgnv6/template/policy/{name}/class-list*

name

Description Policy template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

class-list

Specification	Value
Type	*object*

client-ip-l3-dest

Description Use destination IP as client IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: client-ip-l3-dest and client-ip-l7-header are mutually exclusive

client-ip-l7-header

Description Use extract client IP address from L7 header

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: client-ip-l7-header and client-ip-l3-dest are mutually exclusive

header-name

Description Specify L7 header name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

lid-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/policy/{name}/class-list/lid/{lidnum}*

name

Description Class list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

class-list_lid-list

Specification	Value
Type	*list*
Block object keys	

action-value

Description 'forward': Forward the traffic even it exceeds limit; 'reset': Reset the connection when it exceeds limit;

Type: string

Supported Values: forward, reset

conn-limit

Description Connection limit

Type: number

Range: 0-1048575

conn-per

Description Per (Specify interval in number of 100ms)

Type: number

Range: 1-65535

conn-rate-limit

Description Specify connection rate limit

Type: number

Range: 1-2147483647

dns64

Description: dns64 is a **JSON Block**. Please see below for *class-list_lid-list_dns64*

Type: Object

interval

Description Specify log interval in minutes, by default system will log every over limit instance

Type: number

Range: 1-255

lidnum

Description Specify a limit ID

Type: number

Range: 1-31

lockout

Description Don't accept any new connection for certain time (Lockout duration in minutes)

Type: number

Range: 1-1023

log

Description Log a message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

over-limit-action

Description Set action when exceeds limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

request-limit

Description Request limit (Specify request limit)

Type: number

Range: 0-1048575

request-per

Description Per (Specify interval in number of 100ms)

Type: number

Range: 1-65535

request-rate-limit

Description Request rate limit (Specify request rate limit)

Type: number

Range: 1-4294967295

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

class-list_lid-list_dns64

Specification	Value
Type	*object*

disable

Description Disable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exclusive-answer

Description Exclusive Answer in DNS Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

2.26.386 cgnv6 template policy class-list

Configure classification list

class-list Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	class-list
Element URI	/axapi/v3/cgnv6/template/policy/{name}/class-list
Element Attributes	class-list_attributes
Partition Visibility	shared
Schema	`class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/policy/{name}/class-list

class-list attributes

```
POST /axapi/v3/cgnv6/template/policy/a/class-list
Payload:
{
    "class-list": {
        "name": "a",
        "client-ip-l3-dest": 1
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/template/policy/{name}/class-list

class-list attributes

```
GET /axapi/v3/cgnv6/template/policy/a/class-list
Reponse:
{
    "class-list": {
        "name": "a",
        "client-ip-l3-dest": 1,
        "uuid": "c9d29874-08c0-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/template/policy/a/class-list"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/template/policy/{name}/class-list

class-list attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/policy/{name}/class-list

class-list attributes

```
PUT /axapi/v3/cgnv6/template/policy/a/class-list
Payload:
{
    "class-list": {
        "name": "a",
        "client-ip-l3-dest": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/cgnv6/template/policy/{name}/class-list

class-list attributes

```
DELETE /axapi/v3/cgnv6/template/policy/a/class-list
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

class-list attributes

client-ip-l3-dest

Description Use destination IP as client IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: client-ip-l3-dest and client-ip-l7-header are mutually exclusive

client-ip-l7-header

Description Use extract client IP address from L7 header

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: client-ip-l7-header and client-ip-l3-dest are mutually exclusive

header-name

Description Specify L7 header name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

lid-list

Type: List

Reference Object: */axapi/v3/cgnv6/template/policy/{name}/class-list/lid/{lidnum}*

name

Description Class list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lid-list

Specification	Value
Type	*list*
Block object keys	

action-value

Description 'forward': Forward the traffic even it exceeds limit; 'reset': Reset the connection when it exceeds limit;

Type: string

Supported Values: forward, reset

conn-limit

Description Connection limit

Type: number

Range: 0-1048575

conn-per

Description Per (Specify interval in number of 100ms)

Type: number

Range: 1-65535

conn-rate-limit

Description Specify connection rate limit

Type: number

Range: 1-2147483647

dns64

Description: dns64 is a **JSON Block**. Please see below for *lid-list_dns64*

Type: Object

interval

Description Specify log interval in minutes, by default system will log every over limit instance

Type: number

Range: 1-255

lidnum

Description Specify a limit ID

Type: number

Range: 1-31

lockout

Description Don't accept any new connection for certain time (Lockout duration in minutes)

Type: number

Range: 1-1023

log

Description Log a message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

over-limit-action

Description Set action when exceeds limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

request-limit

Description Request limit (Specify request limit)

Type: number

Range: 0-1048575

request-per

Description Per (Specify interval in number of 100ms)

Type: number

Range: 1-65535

request-rate-limit

Description Request rate limit (Specify request rate limit)

Type: number

Range: 1-4294967295

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lid-list_dns64

Specification	Value
Type	*object*

disable

Description Disable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exclusive-answer

Description Exclusive Answer in DNS Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

2.26.387 cgnv6 template policy class-list lid

Limit ID

lid Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*lidnum*
Collection Name	*lid-list*
Collection URI	/axapi/v3/cgnv6/template/policy/{name}/class-list/lid
Element Name	lid
Element URI	/axapi/v3/cgnv6/template/policy/{name}/class-list/lid/{lidnum}
Element Attributes	lid_attributes
Partition Visibility	shared
Schema	`lid schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/template/policy/{name}/class-list/lid

lid attributes

Create List

POST

/axapi/v3/cgnv6/template/policy/{name}/class-list/lid

lid attributes

Get Object

GET

/axapi/v3/cgnv6/template/policy/{name}/class-list/lid/{lidnum}

lid attributes

Get List

GET

/axapi/v3/cgnv6/template/policy/{name}/class-list/lid

lid-list

Modify Object

POST

/axapi/v3/cgnv6/template/policy/{name}/class-list/lid/{lidnum}

lid attributes

Replace Object

PUT

/axapi/v3/cgnv6/template/policy/{name}/class-list/lid/{lidnum}

lid attributes

Replace List

PUT

/axapi/v3/cgnv6/template/policy/{name}/class-list/lid

lid-list

Delete Object

DELETE

/axapi/v3/cgnv6/template/policy/{name}/class-list/lid/{lidnum}

lid attributes

lid-list

lid-list is **JSON List** of *lid attributes*

lid-list : [

{ *lid attributes* },

{ *lid attributes* },

…

]

lid attributes

action-value

Description 'forward': Forward the traffic even it exceeds limit; 'reset': Reset the connection when it exceeds limit;

Type: string

Supported Values: forward, reset

conn-limit

Description Connection limit

Type: number

Range: 0-1048575

conn-per

Description Per (Specify interval in number of 100ms)

Type: number

Range: 1-65535

conn-rate-limit

Description Specify connection rate limit

Type: number

Range: 1-2147483647

dns64

Description: dns64 is a **JSON Block**. Please see below for *dns64*

Type: Object

interval

Description Specify log interval in minutes, by default system will log every over limit instance

Type: number

Range: 1-255

lidnum

Description Specify a limit ID

Type: number

Range: 1-31

lockout

Description Don't accept any new connection for certain time (Lockout duration in minutes)

Type: number

Range: 1-1023

log

Description Log a message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

over-limit-action

Description Set action when exceeds limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

request-limit

Description Request limit (Specify request limit)

Type: number

Range: 0-1048575

request-per

Description Per (Specify interval in number of 100ms)

Type: number

Range: 1-65535

request-rate-limit

Description Request rate limit (Specify request rate limit)

Type: number

Range: 1-4294967295

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns64

Specification	Value
Type	*object*

disable

Description Disable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exclusive-answer

Description Exclusive Answer in DNS Response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prefix

Description IPv6 prefix

Type: string

Format: ipv6-address-plen

2.26.388 cgnv6 translation

Configure CGN translation timeout values

translation Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	translation
Element URI	/axapi/v3/cgnv6/translation
Element Attributes	translation_attributes
Partition Visibility	shared
Schema	`translation schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/translation

translation attributes

```
POST /axapi/v3/cgnv6/translation
Payload:
{
    "translation": {
        "service-timeout-list": [
            {
                "service-type": "tcp",
                "port": 1,
                "timeout-val": 2,
                "port-end": 1
            }
        ],
        "icmp-timeout": {
            "icmp-timeout-val": 2
        }
    }
}
```

Get Object

GET

/axapi/v3/cgnv6/translation

translation attributes

```
GET /axapi/v3/cgnv6/translation
Reponse:
{
```

(continues on next page)

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```
    "translation": {
        "icmp-timeout": {
            "icmp-timeout-val": 2
        },
        "tcp-timeout": 300,
        "udp-timeout": 300,
        "uuid": "c5ecfd9c-0890-11f0-a250-a9cf5715f49c",
        "service-timeout-list": [
            {
                "service-type": "tcp",
                "port": 1,
                "port-end": 1,
                "timeout-val": 2,
                "uuid": "3c647c72-08c1-11f0-951d-a9cf5715f49c",
                "a10-url": "/axapi/v3/cgnv6/translation/service-timeout/tcp+1"
            }
        ],
        "a10-url": "/axapi/v3/cgnv6/translation"
    }
}
```

Modify Object

POST

/axapi/v3/cgnv6/translation

translation attributes

Replace Object

PUT

/axapi/v3/cgnv6/translation

translation attributes

Delete Object

DELETE

/axapi/v3/cgnv6/translation

translation attributes

```
DELETE /axapi/v3/cgnv6/translation
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

translation attributes

icmp-timeout

Description: icmp-timeout is a **JSON Block**. Please see below for *icmp-timeout*

Type: Object

service-timeout-list

Type: List

Reference Object: */axapi/v3/cgnv6/translation/service-timeout/{service-type}+{port}*

tcp-timeout

Description TCP protocol extended translations (Timeout in seconds (Interval of 60 seconds), default is 300 seconds (5 minutes))

Type: number

Range: 2-15000

Default: 300

udp-timeout

Description UDP protocol extended translations (Timeout in seconds (Interval of 60 seconds), default is 300 seconds (5 minutes))

Type: number

Range: 2-15000

Default: 300

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service-timeout-list

Specification	Value
Type	*list*
Block object keys	

fast

Description Use Fast Aging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: fast and timeout-val are mutually exclusive

port

Description Port Number

Type: number

Range: 1-65535

port-end

Description End Port Number

Type: number

Range: 1-65535

service-type

Description 'tcp': TCP Protocol; 'udp': UDP Protocol;

Type: string

Supported Values: tcp, udp

timeout-val

Description Timeout in seconds (Interval of 60 seconds)

Type: number

Range: 2-15000

Mutual Exclusion: timeout-val and fast are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-timeout

Specification	Value
Type	*object*

fast

Description Use Fast Aging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: fast and icmp-timeout-val are mutually exclusive

icmp-timeout-val

Description Timeout in seconds (Interval of 60 seconds)

Type: number

Range: 2-15000

Mutual Exclusion: icmp-timeout-val and fast are mutually exclusive

2.26.389 cgnv6 translation service-timeout

Specify any custom service timeout

service-timeout Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*service-type, port*
Collection Name	*service-timeout-list*
Collection URI	/axapi/v3/cgnv6/translation/service-timeout
Element Name	service-timeout
Element URI	/axapi/v3/cgnv6/translation/service-timeout/{service-type}+{port}
Element Attributes	service-timeout_attributes
Partition Visibility	shared
Schema	`service-timeout schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cgnv6/translation/service-timeout

service-timeout attributes

```
POST /axapi/v3/cgnv6/translation/service-timeout/
Payload:
{
    "service-timeout": {
        "service-type": "tcp",
        "port": 1,
        "timeout-val": 2,
        "port-end": 1
    }
}
```

Create List

POST

/axapi/v3/cgnv6/translation/service-timeout

service-timeout attributes

Get Object

GET

/axapi/v3/cgnv6/translation/service-timeout/{service-type}+{port}

service-timeout attributes

```
GET /axapi/v3/cgnv6/translation/service-timeout/tcp+1
Reponse:
{
    "service-timeout": {
        "service-type": "tcp",
        "port": 1,
        "port-end": 1,
        "timeout-val": 2,
        "uuid": "65baa3f8-08c1-11f0-951d-a9cf5715f49c",
        "a10-url": "/axapi/v3/cgnv6/translation/service-timeout/tcp+1"
    }
}
```

Get List

GET

/axapi/v3/cgnv6/translation/service-timeout

service-timeout-list

Modify Object

POST

/axapi/v3/cgnv6/translation/service-timeout/{service-type}+{port}

service-timeout attributes

Replace Object

PUT

/axapi/v3/cgnv6/translation/service-timeout/{service-type}+{port}

service-timeout attributes

```
PUT /axapi/v3/cgnv6/translation/service-timeout/tcp+1
Payload:
{
    "service-timeout": {
        "service-type": "tcp",
        "port": 1,
        "timeout-val": 3,
        "port-end": 2
    }
}
```

Replace List

PUT

/axapi/v3/cgnv6/translation/service-timeout

service-timeout-list

Delete Object

DELETE

/axapi/v3/cgnv6/translation/service-timeout/{service-type}+{port}

service-timeout attributes

```
DELETE /axapi/v3/cgnv6/translation/service-timeout/tcp+1
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

service-timeout-list

service-timeout-list is **JSON List** of *service-timeout attributes*

service-timeout-list : [

{ *service-timeout attributes* },

{ *service-timeout attributes* },

...

]

service-timeout attributes

fast

Description Use Fast Aging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: fast and timeout-val are mutually exclusive

port

Description Port Number

Type: number

Range: 1-65535

port-end

Description End Port Number

Type: number

Range: 1-65535

service-type

Description 'tcp': TCP Protocol; 'udp': UDP Protocol;

Type: string

Supported Values: tcp, udp

timeout-val

Description Timeout in seconds (Interval of 60 seconds)

Type: number

Range: 2-15000

Mutual Exclusion: timeout-val and fast are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.27 chassis-application-type

Objects:

2.27.1 chassis-application-type

Configure application to be used for chassis (ADC/CGNv6)

chassis-application-type Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	chassis-application-type
Element URI	/axapi/v3/chassis-application-type
Element Attributes	chassis-application-type_attributes
Partition Visibility	shared
Schema	`chassis-application-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/chassis-application-type

chassis-application-type attributes

```
POST /axapi/v3/chassis-application-type
Payload:
{
    "chassis-application-type": {
        "type": "adc"
    }
}
```

Get Object

GET

/axapi/v3/chassis-application-type

chassis-application-type attributes

Modify Object

POST

/axapi/v3/chassis-application-type

chassis-application-type attributes

Replace Object

PUT

/axapi/v3/chassis-application-type

chassis-application-type attributes

Delete Object

DELETE

/axapi/v3/chassis-application-type

chassis-application-type attributes

chassis-application-type attributes

type

Description 'adc': Application type ADC; 'cgnv6': Application type CGNv6;

Type: string

Supported Values: adc, cgnv6

Default: cgnv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.28 class-list

Objects:

2.28.1 class-list

Configure classification list

class-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*class-list-list*
Collection URI	/axapi/v3/class-list
Element Name	class-list
Element URI	/axapi/v3/class-list/{name}
Element Attributes	class-list_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/class-list/{name}/oper
Schema	`class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/class-list

class-list attributes

```
POST /axapi/v3/class-list/
Payload:
{
    "class-list": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/class-list

class-list attributes

Get Object

GET

/axapi/v3/class-list/{name}

class-list attributes

```
GET /axapi/v3/class-list/a
Reponse:
{
    "class-list": {
        "name": "a",
        "file": 0,
        "uuid": "730e4e40-099f-11f0-837c-5323f81e20fe",
        "user-tag": "a",
        "a10-url": "/axapi/v3/class-list/a"
    }
}
```

Get List

GET

/axapi/v3/class-list

class-list-list

Modify Object

POST

/axapi/v3/class-list/{name}

class-list attributes

Replace Object

PUT

/axapi/v3/class-list/{name}

class-list attributes

```
PUT /axapi/v3/class-list/a
Payload:
{
    "class-list": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/class-list

class-list-list

Delete Object

DELETE

/axapi/v3/class-list/{name}

class-list attributes

```
DELETE /axapi/v3/class-list/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

class-list-list

class-list-list is **JSON List** of *class-list attributes*

class-list-list : [

{ *class-list attributes* },

{ *class-list attributes* },

...

]

class-list attributes

ac-list

Type: List

dns

Type: List

file

Description Create/Edit a class-list stored as a file

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

geo-list

Type: List

ipv4-list

Type: List

ipv6-list

Type: List

name

Description Specify name of the class list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

str-list

Type: List

type

Description 'ac': Make class-list type Aho-Corasick; 'dns': Make class-list type DNS; 'ipv4': Make class-list type IPv4; 'ipv6': Make class-list type IPv6; 'string': Make class-list type String; 'string-case-insensitive': Make class-list type String-case-insensitive. Case insensitive is applied to key string;

Type: string

Supported Values: ac, dns, ipv4, ipv6, string, string-case-insensitive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv4-list

Specification	Value
Type	*list*
Block object keys	

age

Description Specify age in minutes

Type: number

Range: 1-2000

glid

Description Use global Limit ID (Specify global LID index)

Type: string

Format: string-rlx

Maximum Length: 1023 characters

Maximum Length: 1 characters

Mutual Exclusion: glid,lid, shared-partition-glid, lsn-lid, lsn-radius-profile, and gtp-rate-limit-policy-v4 are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-shared

Description Use global Limit ID

Type: string

Format: string-rlx

Maximum Length: 1023 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

gtp-rate-limit-policy-v4

Description GTP Rate Limit Template Name

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: gtp-rate-limit-policy-v4,lid, glid, lsn-lid, and lsn-radius-profile are mutually exclusive

Reference Object: */axapi/v3/template/gtp/rate-limit-policy*

ipv4addr

Description Specify IP address

Type: string

Format: ipv4-cidr

lid

Description Use Limit ID defined in template (Specify LID index)

Type: number

Range: 1-1023

Mutual Exclusion: lid,glid-num, glid, lsn-lid, lsn-radius-profile, gtp-rate-limit-policy-v4, v6-glid, and dns-glid are mutually exclusive

lsn-lid

Description LSN Limit ID (LID index)

Type: number

Range: 1-1023

Mutual Exclusion: lsn-lid,lid, glid, lsn-radius-profile, and gtp-rate-limit-policy-v4 are mutually exclusive

lsn-radius-profile

Description LSN RADIUS Profile Index

Type: number

Range: 1-16

Mutual Exclusion: lsn-radius-profile,lid, glid, lsn-lid, and gtp-rate-limit-policy-v4 are mutually exclusive

shared-partition-glid

Description Reference a glid from shared partition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: shared-partition-glid and glid are mutually exclusive

str-list

Specification	Value
Type	*list*
Block object keys	

shared-partition-str-glid

Description Reference a glid from shared partition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: shared-partition-str-glid and str-glid are mutually exclusive

str

Description Specify key string

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

str-glid

Description Global LID index

Type: string

Format: string-rlx

Maximum Length: 1023 characters

Maximum Length: 1 characters

Mutual Exclusion: str-glid and shared-partition-str-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

str-glid-dummy

Description Use global Limit ID

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: str-glid-dummy and str-lid-dummy are mutually exclusive

str-glid-shared

Description Use global Limit ID

Type: string

Format: string-rlx

Maximum Length: 1023 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

str-lid

Description LID index

Type: number

Range: 1-1023

str-lid-dummy

Description Use Limit ID defined in template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: str-lid-dummy and str-glid-dummy are mutually exclusive

value-str

Description Specify value string

Type: string

Format: string-rlx

Maximum Length: 639 characters

Maximum Length: 1 characters

geo-list

Specification	Value
Type	*list*
Block object keys	

geo-location

Description Specify geo-location

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

geo-location-ipv6

Description Specify IPv6 geo-location

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

ac-list

Specification	Value
Type	*list*
Block object keys	

ac-key-string

Description Specify key string

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

ac-match-type

Description 'contains': String contains another string; 'ends-with': String ends with another string; 'equals': String equals another string; 'starts-with': String starts with another string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

ac-value

Description Specify value string

Type: string

Format: string-rlx

Maximum Length: 639 characters

Maximum Length: 1 characters

Mutual Exclusion: ac-value and gtp-rate-limit-policy-str are mutually exclusive

gtp-rate-limit-policy-str

Description GTP Rate Limit Template Name

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: gtp-rate-limit-policy-str and ac-value are mutually exclusive

Reference Object: */axapi/v3/template/gtp/rate-limit-policy*

ipv6-list

Specification	Value
Type	*list*
Block object keys	

gtp-rate-limit-policy-v6

Description GTP Rate Limit Template Name

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: gtp-rate-limit-policy-v6,v6-lid, v6-glid, v6-lsn-lid, and v6-lsn-radius-profile are mutually exclusive

Reference Object: */axapi/v3/template/gtp/rate-limit-policy*

ipv6-addr

Description Specify IPv6 host or subnet

Type: string

Format: ipv6-address-plen

shared-partition-v6-glid

Description Reference a glid from shared partition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: shared-partition-v6-glid and v6-glid are mutually exclusive

v6-age

Description Specify age in minutes

Type: number

Range: 1-2000

v6-glid

Description Use global Limit ID (Specify global LID index)

Type: string

Format: string-rlx

Maximum Length: 1023 characters

Maximum Length: 1 characters

Mutual Exclusion: v6-glid,lid, shared-partition-v6-glid, v6-lsn-lid, v6-lsn-radius-profile, and gtp-rate-limit-policy-v6 are mutually exclusive

Reference Object: */axapi/v3/glid*

v6-glid-shared

Description Use global Limit ID

Type: string

Format: string-rlx

Maximum Length: 1023 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

v6-lid

Description Use Limit ID defined in template (Specify LID index)

Type: number

Range: 1-1023

Mutual Exclusion: v6-lid,glid-v6, v6-lsn-lid, v6-lsn-radius-profile, and gtp-rate-limit-policy-v6 are mutually exclusive

v6-lsn-lid

Description LSN Limit ID (LID index)

Type: number

Range: 1-1023

Mutual Exclusion: v6-lsn-lid,v6-lid, v6-glid, v6-lsn-radius-profile, and gtp-rate-limit-policy-v6 are mutually exclusive

v6-lsn-radius-profile

Description LSN RADIUS Profile Index

Type: number

Range: 1-16

Mutual Exclusion: v6-lsn-radius-profile,v6-lid, v6-glid, v6-lsn-lid, and gtp-rate-limit-policy-v6 are mutually exclusive

dns

Specification	Value
Type	*list*
Block object keys	

dns-glid

Description Use global Limit ID (Specify global LID index)

Type: string

Format: string-rlx

Maximum Length: 1023 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-glid, lid, and shared-partition-dns-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

dns-glid-shared

Description Use global Limit ID

Type: string

Format: string-rlx

Maximum Length: 1023 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

dns-lid

Description Use Limit ID defined in template (Specify LID index)

Type: number

Range: 1-1023

Mutual Exclusion: dns-lid and glid-dns are mutually exclusive

dns-match-string

Description Domain name

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

dns-match-type

Description 'contains': Domain contains another string; 'ends-with': Domain ends with another string; 'starts-with': Domain starts-with another string;

Type: string

Supported Values: contains, ends-with, starts-with

shared-partition-dns-glid

Description Reference a glid from shared partition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: shared-partition-dns-glid and dns-glid are mutually exclusive

2.28.2 class-list oper

Operational Status for the object class-list

class-list Specification

Parameter	Value
Type	*Collection*
Collection Name	*class-list-list*
Collection URI	/axapi/v3/class-list/{name}
Element Name	class-list
Element URI	/axapi/v3/class-list/{name}/oper
Element Attributes	class-list_attributes
Partition Visibility	None
Schema	`class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/class-list/{name}

class-list attributes

Create List

POST

/axapi/v3/class-list/{name}

class-list attributes

Get Object

GET

/axapi/v3/class-list/{name}/oper

class-list attributes

Get List

GET

/axapi/v3/class-list/{name}

class-list-list

Modify Object

POST

/axapi/v3/class-list/{name}/oper

class-list attributes

Replace Object

PUT

/axapi/v3/class-list/{name}/oper

class-list attributes

Replace List

PUT

/axapi/v3/class-list/{name}

class-list-list

Delete Object

DELETE

/axapi/v3/class-list/{name}/oper

class-list attributes

class-list-list

class-list-list is **JSON List** of *class-list attributes*

```
class-list-list : [
        { class-list attributes },
        { class-list attributes },
        ...
    ]
```

class-list attributes

name

Description Specify name of the class list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

ac-entries

Type: List

ac-total-entries

Description

Type: number

dns-entries

Type: List

dns-total-entries

Description

Type: number

file-or-string

Description

Type: string

Supported Values: file, config

geo-location-entries

Type: List

geo-location-total-entries

Description

Type: number

ipv4-entries

Type: List

ipv4-total-single-ip

Description

Type: number

ipv4-total-subnet

Description

Type: number

ipv6-entries

Type: List

ipv6-total-single-ip

Description

Type: number

ipv6-total-subnet

Description

Type: number

string-entries

Type: List

string-total-entries

Description

Type: number

type

Description

Type: string

Supported Values: ac, dns, ipv4, ipv6, string, string-case-insensitive, [ipv4], [ipv6], [dns], [dns, ipv4], [dns, ipv6]

user-tag

Description

Type: string

oper_ac-entries

Specification	Value
Type	*list*
Block object keys	

ac-gtp-policy

Description

Type: string

ac-hit-count

Description

Type: number

ac-match-string

Description

Type: string

ac-match-type

Description

Type: string

Supported Values: contains, ends-with, starts-with, equals

ac-match-value

Description

Type: string

oper_dns-entries

Specification	Value
Type	*list*
Block object keys	

dns-glid

Description

Type: number

dns-hit-count

Description

Type: number

dns-lid

Description

Type: number

dns-match-string

Description

Type: string

dns-match-type

Description

Type: string

Supported Values: contains, ends-with, starts-with

dns-rpz-type

Description

Type: number

oper_ipv4-entries

Specification	Value
Type	*list*
Block object keys	

ipv4-addr

Description

Type: string

ipv4-age

Description

Type: number

ipv4-category

Description

Type: number

ipv4-glid

Description

Type: number

ipv4-gtp-policy

Description

Type: string

ipv4-hit-count

Description

Type: number

ipv4-lid

Description

Type: number

ipv4-lsn-lid

Description

Type: number

ipv4-lsn-radius-profile

Description

Type: number

ipv4-rpz-type

Description

Type: number

oper_ipv6-entries

Specification	Value
Type	*list*
Block object keys	

ipv6-age

Description

Type: number

ipv6-category

Description

Type: number

ipv6-glid

Description

Type: number

ipv6-gtp-policy

Description

Type: string

ipv6-hit-count

Description

Type: number

ipv6-lid

Description

Type: number

ipv6-lsn-lid

Description

Type: number

ipv6-lsn-radius-profile

Description

Type: number

ipv6-rpz-type

Description

Type: number

ipv6addr

Description

Type: string

oper_string-entries

Specification	Value
Type	*list*
Block object keys	

string-glid

Description

Type: number

string-hit-count

Description

Type: number

string-key

Description

Type: string

string-lid

Description

Type: number

string-value

Description

Type: string

oper_geo-location-entries

Specification	Value
Type	*list*
Block object keys	

geo-location

Description

Type: string

geo-location-status

Description

Type: string

2.29 clock

Objects:

2.29.1 clock

Configure time-of-day Clock

clock Specification

Parameter	Value
Type	*operational*
Element Name	clock
Element URI	/axapi/v3/clock
Element Attributes	clock_attributes
Partition Visibility	shared
Schema	`clock schema`

Operations Allowed:

EXECUTE Object

POST

/axapi/v3/clock

clock attributes

clock attributes

set

Description: set is a **JSON Block**. Please see below for *set*

Type: Object

Reference Object: */axapi/v3/clock/set*

show

Description: show is a **JSON Block**. Please see below for *show*

Type: Object

Reference Object: */axapi/v3/clock/show*

set

Specification	Value
Type	*object*

time-cfg

Description: time-cfg is a **JSON Block**. Please see below for *set_time-cfg*

Type: Object

set_time-cfg

Specification	Value
Type	*object*

day-of-month

Description Day of the Month

Type: number

Range: 1-31

day-of-month-2

Description Day of the Month

Type: number

Range: 1-31

month

Description 'January': Month of the year; 'February': Month of the year; 'March': Month of the year; 'April': Month of the year; 'May': Month of the year; 'June': Month of the year; 'July': Month of the year; 'August': Month of the year; 'September': Month of the year; 'October': Month of the year; 'November': Month of the year; 'December': Month of the year;

Type: string

Supported Values: January, February, March, April, May, June, July, August, September, October, November, December

month-2

Description 'January': Month of the year; 'February': Month of the year; 'March': Month of the year; 'April': Month of the year; 'May': Month of the year; 'June': Month of the year; 'July': Month of the year; 'August': Month of the year; 'September': Month of the year; 'October': Month of the year; 'November': Month of the year; 'December': Month of the year;

Type: string

Supported Values: January, February, March, April, May, June, July, August, September, October, November, December

time

Description Current Time

Type: string

Format: time

year

Description Year

Type: number

Range: 2005-2035

show

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.29.2 clock show oper

Operational Status for the object show

show Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	show
Element URI	/axapi/v3/clock/show/oper
Element Attributes	show_attributes
Partition Visibility	None
Schema	`show schema`

Operations Allowed:

Create Object

POST

/axapi/v3/clock/show/oper

show attributes

Get Object

GET

/axapi/v3/clock/show/oper

show attributes

Modify Object

POST

/axapi/v3/clock/show/oper

show attributes

Replace Object

PUT

/axapi/v3/clock/show/oper

show attributes

Delete Object

DELETE

/axapi/v3/clock/show/oper

show attributes

show attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

date

Description

Type: string

day

Description

Type: string

offset

Description

Type: string

source-type

Description

Type: number

time

Description

Type: string

timezone

Description

Type: string

2.30 cloud-services

Objects:

2.30.1 cloud-services

Cloud Services configuration

cloud-services Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	cloud-services
Element URI	/axapi/v3/cloud-services
Element Attributes	cloud-services_attributes
Partition Visibility	shared
Schema	`cloud-services schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cloud-services

cloud-services_attributes

cloud-services attributes

cloud-provider

Description: cloud-provider is a **JSON Block**. Please see below for *cloud-provider*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider*

kafka-server-profile

Description: kafka-server-profile is a **JSON Block**. Please see below for *kafka-server-profile*

Type: Object

Reference Object: */axapi/v3/cloud-services/kafka-server-profile*

meta-data

Description: meta-data is a **JSON Block**. Please see below for *meta-data*

Type: Object

Reference Object: */axapi/v3/cloud-services/meta-data*

meta-data

Specification	Value
Type	*object*

action

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

prevent-admin-passwd

Description Prevents admin password from being changed if in YAML config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-admin-ssh-key

Description Prevents admin ssh-key from being added if in YAML config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-autofill

Description prevents use of meta-data to complete user_data configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-blob

Description Prevents a10_blob from loading in YAML config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-cloud-service

Description Prevents cloud-service configuration in YAML config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-license

Description Prevents a10_license configuration in YAML config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-user-ops

Description Prevents user from being added command is in user-data

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-webservice

Description Prevents a10_license configuration in YAML config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

provider

Description 'aws': AWS user-data services; 'openstack': OpenStack user-data services;

Type: string

Supported Values: openstack

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

kafka-server-profile

Specification	Value
Type	*object*

action

Description 'register': Register the device to the cloud; 'deregister': Deregister the device from the cloud;

Type: string

Supported Values: register, deregister

active_ns

Description Set active_ns in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

alias_ns

Description Set active_ns in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

bootstrap_servers

Description Set bootstrap_servers in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

client_id

Description Set client_id in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

client_secret

Description Set client_secret in cloud credentials file

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

primary_ns

Description Set active_ns in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

resource_group

Description Set resource_group in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sasl_mechanisms

Description Set sasl_mechanisms in cloud credentials file

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

sasl_password

Description Set sasl_password in cloud credentials file

Type: string

Format: password

Maximum Length: 256 characters

Maximum Length: 1 characters

schema_group_name

Description Set schema_group_name in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

secondary_ns

Description Set active_ns in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

security_protocol

Description Set security_protocol in cloud credentials file

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

subscription_id

Description Set subscription_id in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tenant_id

Description Set tenant_id in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cloud-provider

Specification	Value
Type	*object*

aws

Description: aws is a **JSON Block**. Please see below for *cloud-provider_aws*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws*

azure

Description: azure is a **JSON Block**. Please see below for *cloud-provider_azure*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/azure*

vmware

Description: vmware is a **JSON Block**. Please see below for *cloud-provider_vmware*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/vmware*

cloud-provider_azure

Specification	Value
Type	*object*

log

Description: log is a **JSON Block**. Please see below for *cloud-provider_azure_log*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/azure/log*

metrics

Description: metrics is a **JSON Block**. Please see below for *cloud-provider_azure_metrics*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/azure/metrics*

cloud-provider_azure_metrics

Specification	Value
Type	*object*

action

Description 'enable': Enable Azure Application Insights; 'disable': Disable Azure Application Insights (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

cps

Description 'enable': Enable CPS Metrics; 'disable': Disable CPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

cpu

Description 'enable': Enable CPU Metrics; 'disable': Disable CPU Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ddos

Description: ddos is a **JSON Block**. Please see below for *cloud-provider_azure_metrics_ddos*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos*

disk

Description 'enable': Enable Disk Metrics; 'disable': Disable Disk Metrics;

Type: string

Supported Values: enable, disable

Default: disable

interfaces

Description 'enable': Enable Interfaces Metrics; 'disable': Disable Interfaces Metrics;

Type: string

Supported Values: enable, disable

Default: disable

memory

Description 'enable': Enable Memory Metrics; 'disable': Disable Memory Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-drop

Description 'enable': Enable Packet Drop Metrics; 'disable': Disable Packet Drop Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-rate

Description 'enable': Enable Packet Rate Metrics; 'disable': Disable Packet Rate Metrics;

Type: string

Supported Values: enable, disable

Default: disable

resource-id

Description Specifies the Azure Application Insights resource ID or Instance Resource ID

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

server-down-count

Description 'enable': Enable Server Down Count Metrics; 'disable': Disable Server Down Count Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-percentage

Description 'enable': Enable Server Down Percentage Metrics; 'disable': Disable Server Down Percentage Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-error

Description 'enable': Enable Server Error Metrics; 'disable': Disable Server Error Metrics;

Type: string

Supported Values: enable, disable

Default: disable

sessions

Description 'enable': Enable Sessions Metrics; 'disable': Disable Sessions Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ssl-cert

Description 'enable': Enable SSL Cert Metrics; 'disable': Disable SSL Cert Metrics;

Type: string

Supported Values: enable, disable

Default: disable

throughput

Description 'enable': Enable Throughput Metrics; 'disable': Disable Throughput Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tps

Description 'enable': Enable TPS Metrics; 'disable': Disable TPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cloud-provider_azure_metrics_ddos

Specification	Value
Type	*object*

entry-zone

Description 'enable': Enable All DDoS Entries and Zones Stats; 'disable': Disable All DDoS Entries and Zones Stats;

Type: string

Supported Values: enable, disable

Default: disable

port

Description 'enable': Enable All Port Metrics; 'disable': Disable All Port Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tcp

Description 'enable': Enable All TCP Metrics; 'disable': Disable All TCP Metrics;

Type: string

Supported Values: enable, disable

Default: disable

udp

Description 'enable': Enable All UDP Metrics; 'disable': Disable All UDP Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cloud-provider_azure_log

Specification	Value
Type	*object*

action

Description 'enable': Enable Azure Log Analytics Workspace; 'disable': Disable Azure Log Analytics Workspace (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

resource-id

Description Specifies the compute instance resource ID/Instance on which thunder is deployed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

workspace-id

Description Specifies the Azure Log Analytics Workspace ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

cloud-provider_aws

Specification	Value
Type	*object*

log

Description: log is a **JSON Block**. Please see below for *cloud-provider_aws_log*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/log*

metrics

Description: metrics is a **JSON Block**. Please see below for *cloud-provider_aws_metrics*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/metrics*

multi-az-failover

Description: multi-az-failover is a **JSON Block**. Please see below for *cloud-provider_aws_multi-az-failover*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover*

cloud-provider_aws_metrics

Specification	Value
Type	*object*

action

Description 'enable': Enable AWS CloudWatch; 'disable': Disable AWS CloudWatch (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

cps

Description 'enable': Enable CPS Metrics; 'disable': Disable CPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

cpu

Description 'enable': Enable CPU Metrics; 'disable': Disable CPU Metrics;

Type: string

Supported Values: enable, disable

Default: disable

disk

Description 'enable': Enable Disk Metrics; 'disable': Disable Disk Metrics;

Type: string

Supported Values: enable, disable

Default: disable

interfaces

Description 'enable': Enable Interfaces Metrics; 'disable': Disable Interfaces Metrics;

Type: string

Supported Values: enable, disable

Default: disable

memory

Description 'enable': Enable Memory Metrics; 'disable': Disable Memory Metrics;

Type: string

Supported Values: enable, disable

Default: disable

namespace

Description Specifies the AWS namespace where all the metrics must be published

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-drop

Description 'enable': Enable Packet Drop Metrics; 'disable': Disable Packet Drop Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-rate

Description 'enable': Enable Packet Rate Metrics; 'disable': Disable Packet Rate Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-count

Description 'enable': Enable Server Down Count Metrics; 'disable': Disable Server Down Count Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-percentage

Description 'enable': Enable Server Down Percentage Metrics; 'disable': Disable Server Down Percentage Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-error

Description 'enable': Enable Server Error Metrics; 'disable': Disable Server Error Metrics;

Type: string

Supported Values: enable, disable

Default: disable

sessions

Description 'enable': Enable Sessions Metrics; 'disable': Disable Sessions Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ssl-cert

Description 'enable': Enable SSL Cert Metrics; 'disable': Disable SSL Cert Metrics;

Type: string

Supported Values: enable, disable

Default: disable

throughput

Description 'enable': Enable Throughput Metrics; 'disable': Disable Throughput Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tps

Description 'enable': Enable TPS Metrics; 'disable': Disable TPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cloud-provider_aws_multi-az-failover

Specification	Value
Type	*object*

vrid-list

Type: List

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}*

cloud-provider_aws_multi-az-failover_vrid-list

Specification	Value
Type	*list*
Block object keys	

fip-dest

Description Alien FIP Destination CIDR Block

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

fip-interface-id

Description Data-Out Interface ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

route-table-id

Description Specifies the route table id of the interface

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-dest

Description Alien VIP Destination CIDR Block

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-interface-id

Description Data-In Interface ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-list

Type: List

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip/{vip-number}*

vrid-number

Description Specify ha VRRP-A vrid Number

Type: number

Range: 0-31

cloud-provider_aws_multi-az-failover_vrid-list_vip-list

Specification	Value
Type	*list*
Block object keys	

elastic-ip

Description Elastic IP address of VIP

Type: string

Format: ipv4-address

private-ip

Description Private IP address of VIP

Type: string

Format: ipv4-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-number

Description Specify ha vip Number

Type: number

Range: 0-2147483647

cloud-provider_aws_log

Specification	Value
Type	*object*

action

Description 'enable': Enable AWS CloudWatch; 'disable': Disable AWS CloudWatch (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

log-group-name

Description Specifies the log group name under which all logs are sent to AWS CloudWatch

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cloud-provider_vmware

Specification	Value
Type	*object*

log

Description: log is a **JSON Block**. Please see below for *cloud-provider_vmware_log*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/vmware/log*

metrics

Description: metrics is a **JSON Block**. Please see below for *cloud-provider_vmware_metrics*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/vmware/metrics*

cloud-provider_vmware_metrics

Specification	Value
Type	*object*

action

Description 'enable': Enable VMware vRealize Operations Manager; 'disable': Disable VMware vRealize Operations Manager (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

cps

Description 'enable': Enable CPS Metrics; 'disable': Disable CPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

cpu

Description 'enable': Enable CPU Metrics; 'disable': Disable CPU Metrics;

Type: string

Supported Values: enable, disable

Default: disable

disk

Description 'enable': Enable Disk Metrics; 'disable': Disable Disk Metrics;

Type: string

Supported Values: enable, disable

Default: disable

interfaces

Description 'enable': Enable Interfaces Metrics; 'disable': Disable Interfaces Metrics;

Type: string

Supported Values: enable, disable

Default: disable

memory

Description 'enable': Enable Memory Metrics; 'disable': Disable Memory Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-drop

Description 'enable': Enable Packet Drop Metrics; 'disable': Disable Packet Drop Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-rate

Description 'enable': Enable Packet Rate Metrics; 'disable': Disable Packet Rate Metrics;

Type: string

Supported Values: enable, disable

Default: disable

resource-id

Description Specifies the compute instance resource ID on which thunder is deployed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

server-down-count

Description 'enable': Enable Server Down Count Metrics; 'disable': Disable Server Down Count Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-percentage

Description 'enable': Enable Server Down Percentage Metrics; 'disable': Disable Server Down Percentage Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-error

Description 'enable': Enable Server Error Metrics; 'disable': Disable Server Error Metrics;

Type: string

Supported Values: enable, disable

Default: disable

sessions

Description 'enable': Enable Sessions Metrics; 'disable': Disable Sessions Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ssl-cert

Description 'enable': Enable SSL Cert Metrics; 'disable': Disable SSL Cert Metrics;

Type: string

Supported Values: enable, disable

Default: disable

throughput

Description 'enable': Enable Throughput Metrics; 'disable': Disable Throughput Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tps

Description 'enable': Enable TPS Metrics; 'disable': Disable TPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrops-host

Description Specifies the VMware vROps host IP address

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

cloud-provider_vmware_log

Specification	Value
Type	*object*

action

Description 'enable': Enable VMware vRealize Log Insight; 'disable': Disable VMware vRealize Log Insight (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrli-host

Description Specifies the VMware vRLI host IP address

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

2.30.2 cloud-services cloud-provider

Cloud provider configuration

cloud-provider Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	cloud-provider
Element URI	/axapi/v3/cloud-services/cloud-provider
Element Attributes	cloud-provider_attributes
Partition Visibility	shared
Schema	`cloud-provider schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cloud-services/cloud-provider

cloud-provider_attributes

cloud-provider attributes

aws

Description: aws is a **JSON Block**. Please see below for *aws*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws*

azure

Description: azure is a **JSON Block**. Please see below for *azure*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/azure*

vmware

Description: vmware is a **JSON Block**. Please see below for *vmware*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/vmware*

azure

Specification	Value
Type	*object*

log

Description: log is a **JSON Block**. Please see below for *azure_log*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/azure/log*

metrics

Description: metrics is a **JSON Block**. Please see below for *azure_metrics*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/azure/metrics*

azure_metrics

Specification	Value
Type	*object*

action

Description 'enable': Enable Azure Application Insights; 'disable': Disable Azure Application Insights (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

cps

Description 'enable': Enable CPS Metrics; 'disable': Disable CPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

cpu

Description 'enable': Enable CPU Metrics; 'disable': Disable CPU Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ddos

Description: ddos is a **JSON Block**. Please see below for *azure_metrics_ddos*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos*

disk

Description 'enable': Enable Disk Metrics; 'disable': Disable Disk Metrics;

Type: string

Supported Values: enable, disable

Default: disable

interfaces

Description 'enable': Enable Interfaces Metrics; 'disable': Disable Interfaces Metrics;

Type: string

Supported Values: enable, disable

Default: disable

memory

Description 'enable': Enable Memory Metrics; 'disable': Disable Memory Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-drop

Description 'enable': Enable Packet Drop Metrics; 'disable': Disable Packet Drop Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-rate

Description 'enable': Enable Packet Rate Metrics; 'disable': Disable Packet Rate Metrics;

Type: string

Supported Values: enable, disable

Default: disable

resource-id

Description Specifies the Azure Application Insights resource ID or Instance Resource ID

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

server-down-count

Description 'enable': Enable Server Down Count Metrics; 'disable': Disable Server Down Count Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-percentage

Description 'enable': Enable Server Down Percentage Metrics; 'disable': Disable Server Down Percentage Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-error

Description 'enable': Enable Server Error Metrics; 'disable': Disable Server Error Metrics;

Type: string

Supported Values: enable, disable

Default: disable

sessions

Description 'enable': Enable Sessions Metrics; 'disable': Disable Sessions Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ssl-cert

Description 'enable': Enable SSL Cert Metrics; 'disable': Disable SSL Cert Metrics;

Type: string

Supported Values: enable, disable

Default: disable

throughput

Description 'enable': Enable Throughput Metrics; 'disable': Disable Throughput Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tps

Description 'enable': Enable TPS Metrics; 'disable': Disable TPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

azure_metrics_ddos

Specification	Value
Type	*object*

entry-zone

Description 'enable': Enable All DDoS Entries and Zones Stats; 'disable': Disable All DDoS Entries and Zones Stats;

Type: string

Supported Values: enable, disable

Default: disable

port

Description 'enable': Enable All Port Metrics; 'disable': Disable All Port Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tcp

Description 'enable': Enable All TCP Metrics; 'disable': Disable All TCP Metrics;

Type: string

Supported Values: enable, disable

Default: disable

udp

Description 'enable': Enable All UDP Metrics; 'disable': Disable All UDP Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

azure_log

Specification	Value
Type	*object*

action

Description 'enable': Enable Azure Log Analytics Workspace; 'disable': Disable Azure Log Analytics Workspace (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

resource-id

Description Specifies the compute instance resource ID/Instance on which thunder is deployed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

workspace-id

Description Specifies the Azure Log Analytics Workspace ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

aws

Specification	Value
Type	*object*

log

Description: log is a **JSON Block**. Please see below for *aws_log*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/log*

metrics

Description: metrics is a **JSON Block**. Please see below for *aws_metrics*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/metrics*

multi-az-failover

Description: multi-az-failover is a **JSON Block**. Please see below for *aws_multi-az-failover*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover*

aws_metrics

Specification	Value
Type	*object*

action

Description 'enable': Enable AWS CloudWatch; 'disable': Disable AWS CloudWatch (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

cps

Description 'enable': Enable CPS Metrics; 'disable': Disable CPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

cpu

Description 'enable': Enable CPU Metrics; 'disable': Disable CPU Metrics;

Type: string

Supported Values: enable, disable

Default: disable

disk

Description 'enable': Enable Disk Metrics; 'disable': Disable Disk Metrics;

Type: string

Supported Values: enable, disable

Default: disable

interfaces

Description 'enable': Enable Interfaces Metrics; 'disable': Disable Interfaces Metrics;

Type: string

Supported Values: enable, disable

Default: disable

memory

Description 'enable': Enable Memory Metrics; 'disable': Disable Memory Metrics;

Type: string

Supported Values: enable, disable

Default: disable

namespace

Description Specifies the AWS namespace where all the metrics must be published

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-drop

Description 'enable': Enable Packet Drop Metrics; 'disable': Disable Packet Drop Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-rate

Description 'enable': Enable Packet Rate Metrics; 'disable': Disable Packet Rate Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-count

Description 'enable': Enable Server Down Count Metrics; 'disable': Disable Server Down Count Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-percentage

Description 'enable': Enable Server Down Percentage Metrics; 'disable': Disable Server Down Percentage Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-error

Description 'enable': Enable Server Error Metrics; 'disable': Disable Server Error Metrics;

Type: string

Supported Values: enable, disable

Default: disable

sessions

Description 'enable': Enable Sessions Metrics; 'disable': Disable Sessions Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ssl-cert

Description 'enable': Enable SSL Cert Metrics; 'disable': Disable SSL Cert Metrics;

Type: string

Supported Values: enable, disable

Default: disable

throughput

Description 'enable': Enable Throughput Metrics; 'disable': Disable Throughput Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tps

Description 'enable': Enable TPS Metrics; 'disable': Disable TPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

aws_multi-az-failover

Specification	Value
Type	*object*

vrid-list

Type: List

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}*

aws_multi-az-failover_vrid-list

Specification	Value
Type	*list*
Block object keys	

fip-dest

Description Alien FIP Destination CIDR Block

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

fip-interface-id

Description Data-Out Interface ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

route-table-id

Description Specifies the route table id of the interface

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-dest

Description Alien VIP Destination CIDR Block

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-interface-id

Description Data-In Interface ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-list

Type: List

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip/{vip-number}*

vrid-number

Description Specify ha VRRP-A vrid Number

Type: number

Range: 0-31

aws_multi-az-failover_vrid-list_vip-list

Specification	Value
Type	*list*
Block object keys	

elastic-ip

Description Elastic IP address of VIP

Type: string

Format: ipv4-address

private-ip

Description Private IP address of VIP

Type: string

Format: ipv4-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-number

Description Specify ha vip Number

Type: number

Range: 0-2147483647

aws_log

Specification	Value
Type	*object*

action

Description 'enable': Enable AWS CloudWatch; 'disable': Disable AWS CloudWatch (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

log-group-name

Description Specifies the log group name under which all logs are sent to AWS CloudWatch

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vmware

Specification	Value
Type	*object*

log

Description: log is a **JSON Block**. Please see below for *vmware_log*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/vmware/log*

metrics

Description: metrics is a **JSON Block**. Please see below for *vmware_metrics*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/vmware/metrics*

vmware_metrics

Specification	Value
Type	*object*

action

Description 'enable': Enable VMware vRealize Operations Manager; 'disable': Disable VMware vRealize Operations Manager (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

cps

Description 'enable': Enable CPS Metrics; 'disable': Disable CPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

cpu

Description 'enable': Enable CPU Metrics; 'disable': Disable CPU Metrics;

Type: string

Supported Values: enable, disable

Default: disable

disk

Description 'enable': Enable Disk Metrics; 'disable': Disable Disk Metrics;

Type: string

Supported Values: enable, disable

Default: disable

interfaces

Description 'enable': Enable Interfaces Metrics; 'disable': Disable Interfaces Metrics;

Type: string

Supported Values: enable, disable

Default: disable

memory

Description 'enable': Enable Memory Metrics; 'disable': Disable Memory Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-drop

Description 'enable': Enable Packet Drop Metrics; 'disable': Disable Packet Drop Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-rate

Description 'enable': Enable Packet Rate Metrics; 'disable': Disable Packet Rate Metrics;

Type: string

Supported Values: enable, disable

Default: disable

resource-id

Description Specifies the compute instance resource ID on which thunder is deployed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

server-down-count

Description 'enable': Enable Server Down Count Metrics; 'disable': Disable Server Down Count Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-percentage

Description 'enable': Enable Server Down Percentage Metrics; 'disable': Disable Server Down Percentage Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-error

Description 'enable': Enable Server Error Metrics; 'disable': Disable Server Error Metrics;

Type: string

Supported Values: enable, disable

Default: disable

sessions

Description 'enable': Enable Sessions Metrics; 'disable': Disable Sessions Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ssl-cert

Description 'enable': Enable SSL Cert Metrics; 'disable': Disable SSL Cert Metrics;

Type: string

Supported Values: enable, disable

Default: disable

throughput

Description 'enable': Enable Throughput Metrics; 'disable': Disable Throughput Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tps

Description 'enable': Enable TPS Metrics; 'disable': Disable TPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrops-host

Description Specifies the VMware vROps host IP address

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

vmware_log

Specification	Value
Type	*object*

action

Description 'enable': Enable VMware vRealize Log Insight; 'disable': Disable VMware vRealize Log Insight (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrli-host

Description Specifies the VMware vRLI host IP address

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

2.30.3 cloud-services cloud-provider aws

AWS Provider configuration

aws Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	aws
Element URI	/axapi/v3/cloud-services/cloud-provider/aws
Element Attributes	aws_attributes
Partition Visibility	shared
Schema	`aws schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cloud-services/cloud-provider/aws

aws_attributes

aws attributes

log

Description: log is a **JSON Block**. Please see below for *log*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/log*

metrics

Description: metrics is a **JSON Block**. Please see below for *metrics*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/metrics*

multi-az-failover

Description: multi-az-failover is a **JSON Block**. Please see below for *multi-az-failover*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover*

metrics

Specification	Value
Type	*object*

action

Description 'enable': Enable AWS CloudWatch; 'disable': Disable AWS CloudWatch (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

cps

Description 'enable': Enable CPS Metrics; 'disable': Disable CPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

cpu

Description 'enable': Enable CPU Metrics; 'disable': Disable CPU Metrics;

Type: string

Supported Values: enable, disable

Default: disable

disk

Description 'enable': Enable Disk Metrics; 'disable': Disable Disk Metrics;

Type: string

Supported Values: enable, disable

Default: disable

interfaces

Description 'enable': Enable Interfaces Metrics; 'disable': Disable Interfaces Metrics;

Type: string

Supported Values: enable, disable

Default: disable

memory

Description 'enable': Enable Memory Metrics; 'disable': Disable Memory Metrics;

Type: string

Supported Values: enable, disable

Default: disable

namespace

Description Specifies the AWS namespace where all the metrics must be published

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-drop

Description 'enable': Enable Packet Drop Metrics; 'disable': Disable Packet Drop Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-rate

Description 'enable': Enable Packet Rate Metrics; 'disable': Disable Packet Rate Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-count

Description 'enable': Enable Server Down Count Metrics; 'disable': Disable Server Down Count Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-percentage

Description 'enable': Enable Server Down Percentage Metrics; 'disable': Disable Server Down Percentage Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-error

Description 'enable': Enable Server Error Metrics; 'disable': Disable Server Error Metrics;

Type: string

Supported Values: enable, disable

Default: disable

sessions

Description 'enable': Enable Sessions Metrics; 'disable': Disable Sessions Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ssl-cert

Description 'enable': Enable SSL Cert Metrics; 'disable': Disable SSL Cert Metrics;

Type: string

Supported Values: enable, disable

Default: disable

throughput

Description 'enable': Enable Throughput Metrics; 'disable': Disable Throughput Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tps

Description 'enable': Enable TPS Metrics; 'disable': Disable TPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

multi-az-failover

Specification	Value
Type	*object*

vrid-list

Type: List

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}*

multi-az-failover_vrid-list

Specification	Value
Type	*list*
Block object keys	

fip-dest

Description Alien FIP Destination CIDR Block

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

fip-interface-id

Description Data-Out Interface ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

route-table-id

Description Specifies the route table id of the interface

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-dest

Description Alien VIP Destination CIDR Block

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-interface-id

Description Data-In Interface ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-list

Type: List

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip/{vip-number}*

vrid-number

Description Specify ha VRRP-A vrid Number

Type: number

Range: 0-31

multi-az-failover_vrid-list_vip-list

Specification	Value
Type	*list*
Block object keys	

elastic-ip

Description Elastic IP address of VIP

Type: string

Format: ipv4-address

private-ip

Description Private IP address of VIP

Type: string

Format: ipv4-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-number

Description Specify ha vip Number

Type: number

Range: 0-2147483647

log

Specification	Value
Type	*object*

action

Description 'enable': Enable AWS CloudWatch; 'disable': Disable AWS CloudWatch (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

log-group-name

Description Specifies the log group name under which all logs are sent to AWS CloudWatch

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.30.4 cloud-services cloud-provider aws log

AWS log configuration

log Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	log
Element URI	/axapi/v3/cloud-services/cloud-provider/aws/log
Element Attributes	log_attributes
Partition Visibility	shared
Schema	`log schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cloud-services/cloud-provider/aws/log

log attributes

```
POST /axapi/v3/cloud-services/cloud-provider/aws/log
Payload:
{
    "log": {
        "action": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cloud-services/cloud-provider/aws/log

log attributes

```
GET /axapi/v3/cloud-services/cloud-provider/aws/log
Reponse:
{
    "log": {
        "action": "enable",
        "uuid": "efb95524-b6b7-11ef-8f5a-ae71681635d0",
```

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```
        "a10-url": "/axapi/v3/cloud-services/cloud-provider/aws/log"
    }
}
```

Modify Object

POST

/axapi/v3/cloud-services/cloud-provider/aws/log

log attributes

Replace Object

PUT

/axapi/v3/cloud-services/cloud-provider/aws/log

log attributes

```
PUT /axapi/v3/cloud-services/cloud-provider/aws/log
Payload:
{
    "log": {
        "active-partitions": "abcd"
    }
}
```

Delete Object

DELETE

/axapi/v3/cloud-services/cloud-provider/aws/log

log attributes

```
DELETE /axapi/v3/cloud-services/cloud-provider/aws/log
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

log attributes

action

Description 'enable': Enable AWS CloudWatch; 'disable': Disable AWS CloudWatch (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

log-group-name

Description Specifies the log group name under which all logs are sent to AWS CloudWatch

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.30.5 cloud-services cloud-provider aws metrics

AWS metrics configuration

metrics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	metrics
Element URI	/axapi/v3/cloud-services/cloud-provider/aws/metrics
Element Attributes	metrics_attributes
Partition Visibility	shared
Schema	`metrics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cloud-services/cloud-provider/aws/metrics

metrics attributes

```
POST /axapi/v3/cloud-services/cloud-provider/aws/metrics
Payload:
{
    "metrics": {
        "action": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cloud-services/cloud-provider/aws/metrics

metrics attributes

```
GET /axapi/v3/cloud-services/cloud-provider/aws/metrics
Reponse:
{
    "metrics": {
        "action": "enable",
        "cpu": "disable",
        "memory": "disable",
        "disk": "disable",
        "throughput": "disable",
        "interfaces": "disable",
        "cps": "disable",
        "tps": "disable",
        "server-down-count": "disable",
        "server-down-percentage": "disable",
        "ssl-cert": "disable",
        "server-error": "disable",
        "sessions": "disable",
        "packet-drop": "disable",
        "packet-rate": "disable",
        "uuid": "1e566a3e-b6b8-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/cloud-services/cloud-provider/aws/metrics"
    }
}
```

Modify Object

POST

/axapi/v3/cloud-services/cloud-provider/aws/metrics

metrics attributes

Replace Object

PUT

/axapi/v3/cloud-services/cloud-provider/aws/metrics

metrics attributes

```
PUT /axapi/v3/cloud-services/cloud-provider/aws/metrics
Payload:
{
    "metrics": {
        "namespace": "abcd"
    }
}
```

Delete Object

DELETE

/axapi/v3/cloud-services/cloud-provider/aws/metrics

metrics attributes

```
DELETE /axapi/v3/cloud-services/cloud-provider/aws/metrics
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

metrics attributes

action

Description 'enable': Enable AWS CloudWatch; 'disable': Disable AWS CloudWatch (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

cps

Description 'enable': Enable CPS Metrics; 'disable': Disable CPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

cpu

Description 'enable': Enable CPU Metrics; 'disable': Disable CPU Metrics;

Type: string

Supported Values: enable, disable

Default: disable

disk

Description 'enable': Enable Disk Metrics; 'disable': Disable Disk Metrics;

Type: string

Supported Values: enable, disable

Default: disable

interfaces

Description 'enable': Enable Interfaces Metrics; 'disable': Disable Interfaces Metrics;

Type: string

Supported Values: enable, disable

Default: disable

memory

Description 'enable': Enable Memory Metrics; 'disable': Disable Memory Metrics;

Type: string

Supported Values: enable, disable

Default: disable

namespace

Description Specifies the AWS namespace where all the metrics must be published

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-drop

Description 'enable': Enable Packet Drop Metrics; 'disable': Disable Packet Drop Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-rate

Description ‘enable’: Enable Packet Rate Metrics; ‘disable’: Disable Packet Rate Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-count

Description ‘enable’: Enable Server Down Count Metrics; ‘disable’: Disable Server Down Count Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-percentage

Description ‘enable’: Enable Server Down Percentage Metrics; ‘disable’: Disable Server Down Percentage Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-error

Description ‘enable’: Enable Server Error Metrics; ‘disable’: Disable Server Error Metrics;

Type: string

Supported Values: enable, disable

Default: disable

sessions

Description ‘enable’: Enable Sessions Metrics; ‘disable’: Disable Sessions Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ssl-cert

Description ‘enable’: Enable SSL Cert Metrics; ‘disable’: Disable SSL Cert Metrics;

Type: string

Supported Values: enable, disable

Default: disable

throughput

Description ‘enable’: Enable Throughput Metrics; ‘disable’: Disable Throughput Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tps

Description 'enable': Enable TPS Metrics; 'disable': Disable TPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.30.6 cloud-services cloud-provider aws multi-az-failover

AWS across ha configuration

multi-az-failover Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	multi-az-failover
Element URI	/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover
Element Attributes	multi-az-failover_attributes
Partition Visibility	shared
Schema	`multi-az-failover schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover

multi-az-failover_attributes

multi-az-failover attributes

vrid-list

Type: List

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}*

vrid-list

Specification	Value
Type	*list*
Block object keys	

fip-dest

Description Alien FIP Destination CIDR Block

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

fip-interface-id

Description Data-Out Interface ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

route-table-id

Description Specifies the route table id of the interface

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-dest

Description Alien VIP Destination CIDR Block

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-interface-id

Description Data-In Interface ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-list

Type: List

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip/{vip-number}*

vrid-number

Description Specify ha VRRP-A vrid Number

Type: number

Range: 0-31

vrid-list_vip-list

Specification	Value
Type	*list*
Block object keys	

elastic-ip

Description Elastic IP address of VIP

Type: string

Format: ipv4-address

private-ip

Description Private IP address of VIP

Type: string

Format: ipv4-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-number

Description Specify ha vip Number

Type: number

Range: 0-2147483647

2.30.7 cloud-services cloud-provider aws multi-az-failover vrid

VRID list

vrid Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*vrid-number*
Collection Name	*vrid-list*
Collection URI	/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid
Element Name	vrid
Element URI	/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}
Element Attributes	vrid_attributes
Partition Visibility	shared
Schema	`vrid schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid

vrid attributes

```
POST /axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/
Payload:
{
    "vrid": {
```

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```
        "vrid-number": 0,
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid

vrid attributes

Get Object

GET

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}

vrid attributes

```
GET /axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/0
Reponse:
{
    "vrid": {
        "vrid-number": 0,
        "uuid": "b9ed58e0-b6b8-11ef-8f5a-ae71681635d0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/0"
    }
}
```

Get List

GET

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid

vrid-list

Modify Object

POST

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}

vrid attributes

Replace Object

PUT

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}

vrid attributes

```
PUT /axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/0
Payload:
{
```

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```
    "vrid": {
        "vrid-number": 0,
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid

vrid-list

Delete Object

DELETE

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}

vrid attributes

```
DELETE /axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/0
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

vrid-list

vrid-list is **JSON List** of *vrid attributes*

vrid-list : [

{ *vrid attributes* },

{ *vrid attributes* },

...

]

vrid attributes

fip-dest

Description Alien FIP Destination CIDR Block

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

fip-interface-id

Description Data-Out Interface ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

route-table-id

Description Specifies the route table id of the interface

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-dest

Description Alien VIP Destination CIDR Block

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-interface-id

Description Data-In Interface ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-list

Type: List

Reference Object: */axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip/{vip-number}*

vrid-number

Description Specify ha VRRP-A vrid Number

Type: number

Range: 0-31

vip-list

Specification	Value
Type	*list*
Block object keys	

elastic-ip

Description Elastic IP address of VIP

Type: string

Format: ipv4-address

private-ip

Description Private IP address of VIP

Type: string

Format: ipv4-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-number

Description Specify ha vip Number

Type: number

Range: 0-2147483647

2.30.8 cloud-services cloud-provider aws multi-az-failover vrid vip

list of VIP IPs

vip Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*vip-number*
Collection Name	*vip-list*
Collection URI	/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip
Element Name	vip
Element URI	/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip/{vip-number}
Element Attributes	vip_attributes
Partition Visibility	shared
Schema	`vip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip

vip attributes

Create List

POST

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip

vip attributes

Get Object

GET

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip/{vip-number}

vip attributes

Get List

GET

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip

vip-list

Modify Object

POST

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip/{vip-number}

vip attributes

Replace Object

PUT

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip/{vip-number}

vip attributes

Replace List

PUT

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip

vip-list

Delete Object

DELETE

/axapi/v3/cloud-services/cloud-provider/aws/multi-az-failover/vrid/{vrid-number}/vip/{vip-number}

vip attributes

vip-list

vip-list is **JSON List** of *vip attributes*

vip-list : [

{ *vip attributes* },

{ *vip attributes* },

...

]

vip attributes

elastic-ip

Description Elastic IP address of VIP

Type: string

Format: ipv4-address

private-ip

Description Private IP address of VIP

Type: string

Format: ipv4-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vip-number

Description Specify ha vip Number

Type: number

Range: 0-2147483647

2.30.9 cloud-services cloud-provider azure

Azure Provider configuration

azure Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	azure
Element URI	/axapi/v3/cloud-services/cloud-provider/azure
Element Attributes	azure_attributes
Partition Visibility	shared
Schema	`azure schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cloud-services/cloud-provider/azure

azure_attributes

azure attributes

log

Description: log is a **JSON Block**. Please see below for *log*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/azure/log*

metrics

Description: metrics is a **JSON Block**. Please see below for *metrics*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/azure/metrics*

metrics

Specification	Value
Type	*object*

action

Description 'enable': Enable Azure Application Insights; 'disable': Disable Azure Application Insights (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

cps

Description 'enable': Enable CPS Metrics; 'disable': Disable CPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

cpu

Description 'enable': Enable CPU Metrics; 'disable': Disable CPU Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ddos

Description: ddos is a **JSON Block**. Please see below for *metrics_ddos*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos*

disk

Description 'enable': Enable Disk Metrics; 'disable': Disable Disk Metrics;

Type: string

Supported Values: enable, disable

Default: disable

interfaces

Description 'enable': Enable Interfaces Metrics; 'disable': Disable Interfaces Metrics;

Type: string

Supported Values: enable, disable

Default: disable

memory

Description 'enable': Enable Memory Metrics; 'disable': Disable Memory Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-drop

Description 'enable': Enable Packet Drop Metrics; 'disable': Disable Packet Drop Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-rate

Description 'enable': Enable Packet Rate Metrics; 'disable': Disable Packet Rate Metrics;

Type: string

Supported Values: enable, disable

Default: disable

resource-id

Description Specifies the Azure Application Insights resource ID or Instance Resource ID

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

server-down-count

Description 'enable': Enable Server Down Count Metrics; 'disable': Disable Server Down Count Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-percentage

Description 'enable': Enable Server Down Percentage Metrics; 'disable': Disable Server Down Percentage Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-error

Description 'enable': Enable Server Error Metrics; 'disable': Disable Server Error Metrics;

Type: string

Supported Values: enable, disable

Default: disable

sessions

Description 'enable': Enable Sessions Metrics; 'disable': Disable Sessions Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ssl-cert

Description 'enable': Enable SSL Cert Metrics; 'disable': Disable SSL Cert Metrics;

Type: string

Supported Values: enable, disable

Default: disable

throughput

Description 'enable': Enable Throughput Metrics; 'disable': Disable Throughput Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tps

Description 'enable': Enable TPS Metrics; 'disable': Disable TPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

metrics_ddos

Specification	Value
Type	*object*

entry-zone

Description 'enable': Enable All DDoS Entries and Zones Stats; 'disable': Disable All DDoS Entries and Zones Stats;

Type: string

Supported Values: enable, disable

Default: disable

port

Description 'enable': Enable All Port Metrics; 'disable': Disable All Port Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tcp

Description 'enable': Enable All TCP Metrics; 'disable': Disable All TCP Metrics;

Type: string

Supported Values: enable, disable

Default: disable

udp

Description 'enable': Enable All UDP Metrics; 'disable': Disable All UDP Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

log

Specification	Value
Type	*object*

action

Description 'enable': Enable Azure Log Analytics Workspace; 'disable': Disable Azure Log Analytics Workspace (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

resource-id

Description Specifies the compute instance resource ID/Instance on which thunder is deployed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

workspace-id

Description Specifies the Azure Log Analytics Workspace ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

2.30.10 cloud-services cloud-provider azure log

Azure log configuration

log Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	log
Element URI	/axapi/v3/cloud-services/cloud-provider/azure/log
Element Attributes	log_attributes
Partition Visibility	shared
Schema	`log schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cloud-services/cloud-provider/azure/log

log attributes

```
POST /axapi/v3/cloud-services/cloud-provider/azure/log
Payload:
{
    "log": {
        "action": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cloud-services/cloud-provider/azure/log

log attributes

```
GET /axapi/v3/cloud-services/cloud-provider/azure/log
Reponse:
{
    "log": {
        "action": "enable",
        "uuid": "53dcf9ec-b6b9-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/cloud-services/cloud-provider/azure/log"
    }
}
```

Modify Object

POST

/axapi/v3/cloud-services/cloud-provider/azure/log

log attributes

Replace Object

PUT

/axapi/v3/cloud-services/cloud-provider/azure/log

log attributes

```
PUT /axapi/v3/cloud-services/cloud-provider/azure/log
Payload:
{
    "log": {
        "resource-id": "abcd"
    }
}
```

Delete Object

DELETE

/axapi/v3/cloud-services/cloud-provider/azure/log

log attributes

```
DELETE /axapi/v3/cloud-services/cloud-provider/azure/log
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

log attributes

action

Description 'enable': Enable Azure Log Analytics Workspace; 'disable': Disable Azure Log Analytics Workspace (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

resource-id

Description Specifies the compute instance resource ID/Instance on which thunder is deployed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

workspace-id

Description Specifies the Azure Log Analytics Workspace ID

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

2.30.11 cloud-services cloud-provider azure metrics

Azure metrics configuration

metrics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	metrics
Element URI	/axapi/v3/cloud-services/cloud-provider/azure/metrics
Element Attributes	metrics_attributes
Partition Visibility	shared
Schema	`metrics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cloud-services/cloud-provider/azure/metrics

metrics attributes

```
POST /axapi/v3/cloud-services/cloud-provider/azure/metrics
Payload:
{
    "metrics": {
        "action": "enable",
        "ddos": {
            "tcp": "enable"
        }
    }
}
```

Get Object

GET

/axapi/v3/cloud-services/cloud-provider/azure/metrics

metrics attributes

```
GET /axapi/v3/cloud-services/cloud-provider/azure/metrics
Reponse:
{
    "metrics": {
        "action": "enable",
        "cpu": "disable",
        "memory": "disable",
        "disk": "disable",
        "throughput": "disable",
        "interfaces": "disable",
        "cps": "disable",
        "tps": "disable",
        "server-down-count": "disable",
        "server-down-percentage": "disable",
        "ssl-cert": "disable",
        "server-error": "disable",
        "sessions": "disable",
        "packet-drop": "disable",
        "packet-rate": "disable",
        "uuid": "8618a9ba-b6b9-11ef-8f5a-ae71681635d0",
        "ddos": {
            "tcp": "enable",
            "udp": "disable",
            "port": "disable",
            "entry-zone": "disable",
            "uuid": "86191256-b6b9-11ef-8f5a-ae71681635d0",
            "a10-url": "/axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos"
        },
        "a10-url": "/axapi/v3/cloud-services/cloud-provider/azure/metrics"
    }
}
```

Modify Object

POST

/axapi/v3/cloud-services/cloud-provider/azure/metrics

metrics attributes

Replace Object

PUT

/axapi/v3/cloud-services/cloud-provider/azure/metrics

metrics attributes

Delete Object

DELETE

/axapi/v3/cloud-services/cloud-provider/azure/metrics

metrics attributes

```
DELETE /axapi/v3/cloud-services/cloud-provider/azure/metrics
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

metrics attributes

action

Description 'enable': Enable Azure Application Insights; 'disable': Disable Azure Application Insights (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

cps

Description 'enable': Enable CPS Metrics; 'disable': Disable CPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

cpu

Description 'enable': Enable CPU Metrics; 'disable': Disable CPU Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ddos

Description: ddos is a **JSON Block**. Please see below for *ddos*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos*

disk

Description 'enable': Enable Disk Metrics; 'disable': Disable Disk Metrics;

Type: string

Supported Values: enable, disable

Default: disable

interfaces

Description 'enable': Enable Interfaces Metrics; 'disable': Disable Interfaces Metrics;

Type: string

Supported Values: enable, disable

Default: disable

memory

Description 'enable': Enable Memory Metrics; 'disable': Disable Memory Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-drop

Description 'enable': Enable Packet Drop Metrics; 'disable': Disable Packet Drop Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-rate

Description 'enable': Enable Packet Rate Metrics; 'disable': Disable Packet Rate Metrics;

Type: string

Supported Values: enable, disable

Default: disable

resource-id

Description Specifies the Azure Application Insights resource ID or Instance Resource ID

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

server-down-count

Description 'enable': Enable Server Down Count Metrics; 'disable': Disable Server Down Count Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-percentage

Description 'enable': Enable Server Down Percentage Metrics; 'disable': Disable Server Down Percentage Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-error

Description 'enable': Enable Server Error Metrics; 'disable': Disable Server Error Metrics;

Type: string

Supported Values: enable, disable

Default: disable

sessions

Description 'enable': Enable Sessions Metrics; 'disable': Disable Sessions Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ssl-cert

Description 'enable': Enable SSL Cert Metrics; 'disable': Disable SSL Cert Metrics;

Type: string

Supported Values: enable, disable

Default: disable

throughput

Description 'enable': Enable Throughput Metrics; 'disable': Disable Throughput Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tps

Description 'enable': Enable TPS Metrics; 'disable': Disable TPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ddos

Specification	Value
Type	*object*

entry-zone

Description 'enable': Enable All DDoS Entries and Zones Stats; 'disable': Disable All DDoS Entries and Zones Stats;

Type: string

Supported Values: enable, disable

Default: disable

port

Description 'enable': Enable All Port Metrics; 'disable': Disable All Port Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tcp

Description 'enable': Enable All TCP Metrics; 'disable': Disable All TCP Metrics;

Type: string

Supported Values: enable, disable

Default: disable

udp

Description 'enable': Enable All UDP Metrics; 'disable': Disable All UDP Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.30.12 cloud-services cloud-provider azure metrics ddos

Azure metrics configuration for TPS

ddos Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ddos
Element URI	/axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos
Element Attributes	ddos_attributes
Partition Visibility	shared
Schema	`ddos schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos

ddos attributes

```
POST /axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos
Payload:
{
    "ddos": {
        "tcp": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos

ddos attributes

```
GET /axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos
Reponse:
{
    "ddos": {
```

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```
        "tcp": "enable",
        "udp": "disable",
        "port": "disable",
        "entry-zone": "disable",
        "uuid": "f1b029e6-b6b9-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos"
    }
}
```

Modify Object

POST

/axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos

ddos attributes

Replace Object

PUT

/axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos

ddos attributes

Delete Object

DELETE

/axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos

ddos attributes

```
DELETE /axapi/v3/cloud-services/cloud-provider/azure/metrics/ddos
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ddos attributes

entry-zone

Description 'enable': Enable All DDoS Entries and Zones Stats; 'disable': Disable All DDoS Entries and Zones Stats;

Type: string

Supported Values: enable, disable

Default: disable

port

Description 'enable': Enable All Port Metrics; 'disable': Disable All Port Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tcp

Description 'enable': Enable All TCP Metrics; 'disable': Disable All TCP Metrics;

Type: string

Supported Values: enable, disable

Default: disable

udp

Description 'enable': Enable All UDP Metrics; 'disable': Disable All UDP Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.30.13 cloud-services cloud-provider vmware

VMware Provider configuration

vmware Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	vmware
Element URI	/axapi/v3/cloud-services/cloud-provider/vmware
Element Attributes	vmware_attributes
Partition Visibility	shared
Schema	`vmware schema`

Operations Allowed:

Get Object

GET

/axapi/v3/cloud-services/cloud-provider/vmware

vmware_attributes

vmware attributes

log

Description: log is a **JSON Block**. Please see below for *log*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/vmware/log*

metrics

Description: metrics is a **JSON Block**. Please see below for *metrics*

Type: Object

Reference Object: */axapi/v3/cloud-services/cloud-provider/vmware/metrics*

metrics

Specification	Value
Type	*object*

action

Description 'enable': Enable VMware vRealize Operations Manager; 'disable': Disable VMware vRealize Operations Manager (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

cps

Description 'enable': Enable CPS Metrics; 'disable': Disable CPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

cpu

Description 'enable': Enable CPU Metrics; 'disable': Disable CPU Metrics;

Type: string

Supported Values: enable, disable

Default: disable

disk

Description 'enable': Enable Disk Metrics; 'disable': Disable Disk Metrics;

Type: string

Supported Values: enable, disable

Default: disable

interfaces

Description 'enable': Enable Interfaces Metrics; 'disable': Disable Interfaces Metrics;

Type: string

Supported Values: enable, disable

Default: disable

memory

Description 'enable': Enable Memory Metrics; 'disable': Disable Memory Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-drop

Description 'enable': Enable Packet Drop Metrics; 'disable': Disable Packet Drop Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-rate

Description 'enable': Enable Packet Rate Metrics; 'disable': Disable Packet Rate Metrics;

Type: string

Supported Values: enable, disable

Default: disable

resource-id

Description Specifies the compute instance resource ID on which thunder is deployed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

server-down-count

Description 'enable': Enable Server Down Count Metrics; 'disable': Disable Server Down Count Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-percentage

Description 'enable': Enable Server Down Percentage Metrics; 'disable': Disable Server Down Percentage Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-error

Description 'enable': Enable Server Error Metrics; 'disable': Disable Server Error Metrics;

Type: string

Supported Values: enable, disable

Default: disable

sessions

Description 'enable': Enable Sessions Metrics; 'disable': Disable Sessions Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ssl-cert

Description 'enable': Enable SSL Cert Metrics; 'disable': Disable SSL Cert Metrics;

Type: string

Supported Values: enable, disable

Default: disable

throughput

Description 'enable': Enable Throughput Metrics; 'disable': Disable Throughput Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tps

Description 'enable': Enable TPS Metrics; 'disable': Disable TPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrops-host

Description Specifies the VMware vROps host IP address

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

log

Specification	Value
Type	*object*

action

Description 'enable': Enable VMware vRealize Log Insight; 'disable': Disable VMware vRealize Log Insight (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrli-host

Description Specifies the VMware vRLI host IP address

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

2.30.14 cloud-services cloud-provider vmware log

VMware log configuration

log Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	log
Element URI	/axapi/v3/cloud-services/cloud-provider/vmware/log
Element Attributes	log_attributes
Partition Visibility	shared
Schema	`log schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cloud-services/cloud-provider/vmware/log

log attributes

```
POST /axapi/v3/cloud-services/cloud-provider/vmware/log
Payload:
{
    "log": {
        "action": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cloud-services/cloud-provider/vmware/log

log attributes

```
GET /axapi/v3/cloud-services/cloud-provider/vmware/log
Reponse:
{
    "log": {
        "action": "enable",
        "uuid": "44f1d5aa-b6ba-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/cloud-services/cloud-provider/vmware/log"
    }
}
```

Modify Object

POST

/axapi/v3/cloud-services/cloud-provider/vmware/log

log attributes

Replace Object

PUT

/axapi/v3/cloud-services/cloud-provider/vmware/log

log attributes

```
PUT /axapi/v3/cloud-services/cloud-provider/vmware/log
Payload:
{
    "log": {
        "active-partitions": "abcd"
    }
}
```

Delete Object

DELETE

/axapi/v3/cloud-services/cloud-provider/vmware/log

log attributes

```
DELETE /axapi/v3/cloud-services/cloud-provider/vmware/log
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

log attributes

action

Description 'enable': Enable VMware vRealize Log Insight; 'disable': Disable VMware vRealize Log Insight (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrli-host

Description Specifies the VMware vRLI host IP address

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

2.30.15 cloud-services cloud-provider vmware metrics

VMware metrics configuration

metrics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	metrics
Element URI	/axapi/v3/cloud-services/cloud-provider/vmware/metrics
Element Attributes	metrics_attributes
Partition Visibility	shared
Schema	`metrics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cloud-services/cloud-provider/vmware/metrics

metrics attributes

```
POST /axapi/v3/cloud-services/cloud-provider/vmware/metrics
Payload:
{
    "metrics": {
        "action": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cloud-services/cloud-provider/vmware/metrics

metrics attributes

```
GET /axapi/v3/cloud-services/cloud-provider/vmware/metrics
Reponse:
{
    "metrics": {
        "action": "enable",
        "cpu": "disable",
        "memory": "disable",
        "disk": "disable",
        "throughput": "disable",
        "interfaces": "disable",
        "cps": "disable",
        "tps": "disable",
        "server-down-count": "disable",
        "server-down-percentage": "disable",
        "ssl-cert": "disable",
        "server-error": "disable",
        "sessions": "disable",
        "packet-drop": "disable",
        "packet-rate": "disable",
        "uuid": "708e66a6-b6ba-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/cloud-services/cloud-provider/vmware/metrics"
    }
}
```

Modify Object

POST

/axapi/v3/cloud-services/cloud-provider/vmware/metrics

metrics attributes

Replace Object

PUT

/axapi/v3/cloud-services/cloud-provider/vmware/metrics

metrics attributes

```
PUT /axapi/v3/cloud-services/cloud-provider/vmware/metrics
Payload:
{
    "metrics": {
        "vrops-host": "abcd"
    }
}
```

Delete Object

DELETE

/axapi/v3/cloud-services/cloud-provider/vmware/metrics

metrics attributes

```
DELETE /axapi/v3/cloud-services/cloud-provider/vmware/metrics
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

metrics attributes

action

Description 'enable': Enable VMware vRealize Operations Manager; 'disable': Disable VMware vRealize Operations Manager (default);

Type: string

Supported Values: enable, disable

Default: disable

active-partitions

Description Specifies the thunder active partition name separated by a comma for multiple values

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

cps

Description 'enable': Enable CPS Metrics; 'disable': Disable CPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

cpu

Description 'enable': Enable CPU Metrics; 'disable': Disable CPU Metrics;

Type: string

Supported Values: enable, disable

Default: disable

disk

Description 'enable': Enable Disk Metrics; 'disable': Disable Disk Metrics;

Type: string

Supported Values: enable, disable

Default: disable

interfaces

Description 'enable': Enable Interfaces Metrics; 'disable': Disable Interfaces Metrics;

Type: string

Supported Values: enable, disable

Default: disable

memory

Description 'enable': Enable Memory Metrics; 'disable': Disable Memory Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-drop

Description 'enable': Enable Packet Drop Metrics; 'disable': Disable Packet Drop Metrics;

Type: string

Supported Values: enable, disable

Default: disable

packet-rate

Description 'enable': Enable Packet Rate Metrics; 'disable': Disable Packet Rate Metrics;

Type: string

Supported Values: enable, disable

Default: disable

resource-id

Description Specifies the compute instance resource ID on which thunder is deployed

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

server-down-count

Description 'enable': Enable Server Down Count Metrics; 'disable': Disable Server Down Count Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-down-percentage

Description 'enable': Enable Server Down Percentage Metrics; 'disable': Disable Server Down Percentage Metrics;

Type: string

Supported Values: enable, disable

Default: disable

server-error

Description 'enable': Enable Server Error Metrics; 'disable': Disable Server Error Metrics;

Type: string

Supported Values: enable, disable

Default: disable

sessions

Description 'enable': Enable Sessions Metrics; 'disable': Disable Sessions Metrics;

Type: string

Supported Values: enable, disable

Default: disable

ssl-cert

Description 'enable': Enable SSL Cert Metrics; 'disable': Disable SSL Cert Metrics;

Type: string

Supported Values: enable, disable

Default: disable

throughput

Description 'enable': Enable Throughput Metrics; 'disable': Disable Throughput Metrics;

Type: string

Supported Values: enable, disable

Default: disable

tps

Description 'enable': Enable TPS Metrics; 'disable': Disable TPS Metrics;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrops-host

Description Specifies the VMware vROps host IP address

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

2.30.16 cloud-services kafka-server-profile

configure kafka server profile

kafka-server-profile Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	kafka-server-profile
Element URI	/axapi/v3/cloud-services/kafka-server-profile
Element Attributes	kafka-server-profile_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/cloud-services/kafka-server-profile/oper
Schema	`kafka-server-profile schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cloud-services/kafka-server-profile

kafka-server-profile attributes

```
POST /axapi/v3/cloud-services/kafka-server-profile
Payload:
{
    "kafka-server-profile": {
        "security_protocol": "a"
    }
}
```

Get Object

GET

/axapi/v3/cloud-services/kafka-server-profile

kafka-server-profile attributes

```
GET /axapi/v3/cloud-services/kafka-server-profile
Reponse:
```

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```
{
    "kafka-server-profile": {
        "security_protocol": "a",
        "uuid": "eb6668c4-b6ba-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/cloud-services/kafka-server-profile"
    }
}
```

Modify Object

POST

/axapi/v3/cloud-services/kafka-server-profile

kafka-server-profile attributes

Replace Object

PUT

/axapi/v3/cloud-services/kafka-server-profile

kafka-server-profile attributes

```
PUT /axapi/v3/cloud-services/kafka-server-profile
Payload:
{
    "kafka-server-profile": {
        "security_protocol": "abcd"
    }
}
```

Delete Object

DELETE

/axapi/v3/cloud-services/kafka-server-profile

kafka-server-profile attributes

```
DELETE /axapi/v3/cloud-services/kafka-server-profile
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

kafka-server-profile attributes

action

Description 'register': Register the device to the cloud; 'deregister': Deregister the device from the cloud;

Type: string

Supported Values: register, deregister

active_ns

Description Set active_ns in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

alias_ns

Description Set active_ns in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

bootstrap_servers

Description Set bootstrap_servers in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

client_id

Description Set client_id in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

client_secret

Description Set client_secret in cloud credentials file

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

primary_ns

Description Set active_ns in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

resource_group

Description Set resource_group in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sasl_mechanisms

Description Set sasl_mechanisms in cloud credentials file

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

sasl_password

Description Set sasl_password in cloud credentials file

Type: string

Format: password

Maximum Length: 256 characters

Maximum Length: 1 characters

schema_group_name

Description Set schema_group_name in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

secondary_ns

Description Set active_ns in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

security_protocol

Description Set security_protocol in cloud credentials file

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

subscription_id

Description Set subscription_id in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tenant_id

Description Set tenant_id in cloud credentials file

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.30.17 cloud-services kafka-server-profile oper

Operational Status for the object kafka-server-profile

kafka-server-profile Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	kafka-server-profile
Element URI	/axapi/v3/cloud-services/kafka-server-profile/oper
Element Attributes	kafka-server-profile_attributes
Partition Visibility	None
Schema	`kafka-server-profile schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cloud-services/kafka-server-profile/oper

kafka-server-profile attributes

Get Object

GET

/axapi/v3/cloud-services/kafka-server-profile/oper

kafka-server-profile attributes

Modify Object

POST

/axapi/v3/cloud-services/kafka-server-profile/oper

kafka-server-profile attributes

Replace Object

PUT

/axapi/v3/cloud-services/kafka-server-profile/oper

kafka-server-profile attributes

Delete Object

DELETE

/axapi/v3/cloud-services/kafka-server-profile/oper

kafka-server-profile attributes

kafka-server-profile attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

active-namespace

Description

Type: string

kafka-broker-state

Description

Type: string

registration-status

Description

Type: string

2.30.18 cloud-services meta-data

user-data Services configuration only works in shared partition

meta-data Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	meta-data
Element URI	/axapi/v3/cloud-services/meta-data
Element Attributes	meta-data_attributes
Partition Visibility	shared
Schema	`meta-data schema`

Operations Allowed:

Create Object

POST

/axapi/v3/cloud-services/meta-data

meta-data attributes

```
POST /axapi/v3/cloud-services/meta-data
Payload:
{
    "meta-data": {
        "action": "enable"
    }
}
```

Get Object

GET

/axapi/v3/cloud-services/meta-data

meta-data attributes

```
GET /axapi/v3/cloud-services/meta-data
Reponse:
{
    "meta-data": {
        "action": "enable",
        "prevent-autofill": 0,
        "prevent-admin-passwd": 0,
        "prevent-admin-ssh-key": 0,
        "prevent-user-ops": 0,
        "prevent-blob": 0,
        "prevent-license": 0,
        "prevent-webservice": 0,
        "prevent-cloud-service": 0,
```

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```
        "uuid": "50f2bb3e-b6bb-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/cloud-services/meta-data"
    }
}
```

Modify Object

POST

/axapi/v3/cloud-services/meta-data

meta-data attributes

Replace Object

PUT

/axapi/v3/cloud-services/meta-data

meta-data attributes

```
PUT /axapi/v3/cloud-services/meta-data
Payload:
{
    "meta-data": {
        "provider": "openstack"
    }
}
```

Delete Object

DELETE

/axapi/v3/cloud-services/meta-data

meta-data attributes

```
DELETE /axapi/v3/cloud-services/meta-data
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Backend callback not registered"
    }
}
```

meta-data attributes

action

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

prevent-admin-passwd

Description Prevents admin password from being changed if in YAML config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-admin-ssh-key

Description Prevents admin ssh-key from being added if in YAML config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-autofill

Description prevents use of meta-data to complete user_data configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-blob

Description Prevents a10_blob from loading in YAML config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-cloud-service

Description Prevents cloud-service configuration in YAML config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-license

Description Prevents a10_license configuration in YAML config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-user-ops

Description Prevents user from being added command is in user-data

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prevent-webservice

Description Prevents a10_license configuration in YAML config

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

provider

Description 'aws': AWS user-data services; 'openstack': OpenStack user-data services;

Type: string

Supported Values: openstack

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.31 config-sync-status

Objects:

2.31.1 config-sync-status

Display config sync status for all partitions

config-sync-status Specification

Parameter	Value
Type	*operational*
Element Name	config-sync-status
Element URI	/axapi/v3/config-sync-status
Element Attributes	config-sync-status_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/config-sync-status/oper
Schema	`config-sync-status schema`

Operations Allowed:

EXECUTE Object

POST

/axapi/v3/config-sync-status

config-sync-status attributes

config-sync-status attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.31.2 config-sync-status oper

Operational Status for the object config-sync-status

config-sync-status Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	config-sync-status
Element URI	/axapi/v3/config-sync-status/oper
Element Attributes	config-sync-status_attributes
Partition Visibility	None
Schema	`config-sync-status schema`

Operations Allowed:

Create Object

POST

/axapi/v3/config-sync-status/oper

config-sync-status attributes

Get Object

GET

/axapi/v3/config-sync-status/oper

config-sync-status attributes

Modify Object

POST

/axapi/v3/config-sync-status/oper

config-sync-status attributes

Replace Object

PUT

/axapi/v3/config-sync-status/oper

config-sync-status attributes

Delete Object

DELETE

/axapi/v3/config-sync-status/oper

config-sync-status attributes

config-sync-status attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

config-sync-list

Type: List

oper_config-sync-list

Specification	Value
Type	*list*
Block object keys	

partition-name

Description

Type: string

run-sync-status

Description

Type: string

startup-sync-status

Description

Type: string

2.32 controller

Objects:

2.32.1 controller

A10 controller information

controller Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	controller
Element URI	/axapi/v3/controller
Element Attributes	controller_attributes
Partition Visibility	shared
Schema	`controller schema`

Operations Allowed:

Get Object

GET

/axapi/v3/controller

controller_attributes

controller attributes

config-replace

Description: config-replace is a **JSON Block**. Please see below for *config-replace*

Type: Object

Reference Object: */axapi/v3/controller/config-replace*

partition-tenant-info

Description: partition-tenant-info is a **JSON Block**. Please see below for *partition-tenant-info*

Type: Object

Reference Object: */axapi/v3/controller/partition-tenant-info*

profile

Description: profile is a **JSON Block**. Please see below for *profile*

Type: Object

Reference Object: */axapi/v3/controller/profile*

telemetry

Description: telemetry is a **JSON Block**. Please see below for *telemetry*

Type: Object

Reference Object: */axapi/v3/controller/telemetry*

tunnel-stats

Description: tunnel-stats is a **JSON Block**. Please see below for *tunnel-stats*

Type: Object

Reference Object: */axapi/v3/controller/tunnel-stats*

profile

Specification	Value
Type	*object*

action

Description 'register': Register the device to the controller; 'deregister': Deregister the device from controller;

Type: string

Supported Values: register, deregister

analytics

Description 'all': Export all the analytics information.; 'system': Export only system level policy for device management.; 'disable': Disable all the exports from the device. This is the default value.;

Type: string

Supported Values: all, system, disable

Default: disable

analytics-data

Description Use data port for analytics information exportation, if not set analytics will follow 'host use-mgmt-port' option

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

api-key

Description API key for authentication

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

auto-restart-action

Description 'enable': enable auto analytics bus restart, default behavior is enable; 'disable': disable auto analytics bus restart;

Type: string

Supported Values: enable, disable

Default: enable

availability-zone

Description availablity zone of the thunder-device

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

cluster-id

Description id for the cluster in controller, typically an uuid

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

cluster-name

Description name of cluster in controller that this device is a member of

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

force

Description: force is a **JSON Block**. Please see below for *profile_force*

Type: Object

Reference Object: */axapi/v3/controller/profile/force*

host

Description Set controller host address

Type: string

Format: host

Mutual Exclusion: host and host-ipv6 are mutually exclusive

host-ipv6

Description IPV6 address or FQDN for the host

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: host-ipv6 and host are mutually exclusive

interval

Description auto analytics bus restart time interval in mins, default is 3 mins

Type: number

Range: 1-15

Default: 3

organization

Description organization for the controller

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

password-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

port

Description Set port for remote Controller

Type: number

Range: 1-32767

re-sync

Description: re-sync is a **JSON Block**. Please see below for *profile_re-sync*

Type: Object

Reference Object: */axapi/v3/controller/profile/re-sync*

region

Description region of the thunder-device

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

secret-value

Description Specify the password for the user

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

thunder-mgmt-ip

Description: thunder-mgmt-ip is a **JSON Block**. Please see below for *profile_thunder-mgmt-ip*

Type: Object

Reference Object: */axapi/v3/controller/profile/thunder-mgmt-ip*

tunnel

Description: tunnel is a **JSON Block**. Please see below for *profile_tunnel*

Type: Object

Reference Object: */axapi/v3/controller/profile/tunnel*

use-mgmt-port

Description Use management port for connections

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-name

Description user-name for the tenant

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

profile_force

Specification	Value
Type	*object*

deregister

Description forcefully deregister thunder from harmony controller

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profile_re-sync

Specification	Value
Type	*object*

analytics-bus

Description re-sync analtyics bus connections

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

schema-registry

Description re-sync the schema registry

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profile_tunnel

Specification	Value
Type	*object*

action

Description 'enable': Tunnel Enable; 'disable': Tunnel Disable;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

profile_thunder-mgmt-ip

Specification	Value
Type	*object*

ip-address

Description IP address (IPv4 address)

Type: string

Format: ipv4-address

Mutual Exclusion: ip-address and ipv6-addr are mutually exclusive

ipv6-addr

Description IPV6 address for the host

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-addr and ip-address are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tunnel-stats

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

config-replace

Specification	Value
Type	*object*

status

Description 'enable': enable config replace mode; 'disable': disable config replace mode;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

telemetry

Specification	Value
Type	*object*

log-rate

Description Max number of session logs sent by the partition per second

Type: number

Range: 0-10000

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

partition-tenant-info

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.32.2 controller config-replace

Enable config-replace-mode

config-replace Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	config-replace
Element URI	/axapi/v3/controller/config-replace
Element Attributes	config-replace_attributes
Partition Visibility	shared
Schema	`config-replace schema`

Operations Allowed:

Create Object

POST

/axapi/v3/controller/config-replace

config-replace attributes

Get Object

GET

/axapi/v3/controller/config-replace

config-replace attributes

Modify Object

POST

/axapi/v3/controller/config-replace

config-replace attributes

Replace Object

PUT

/axapi/v3/controller/config-replace

config-replace attributes

config-replace attributes

status

Description 'enable': enable config replace mode; 'disable': disable config replace mode;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.32.3 controller partition-tenant-info

Harmony controller profile

partition-tenant-info Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	partition-tenant-info
Element URI	/axapi/v3/controller/partition-tenant-info
Element Attributes	partition-tenant-info_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/controller/partition-tenant-info/oper
Schema	`partition-tenant-info schema`

Operations Allowed:

Create Object

POST

/axapi/v3/controller/partition-tenant-info

partition-tenant-info attributes

Get Object

GET

/axapi/v3/controller/partition-tenant-info

partition-tenant-info attributes

Modify Object

POST

/axapi/v3/controller/partition-tenant-info

partition-tenant-info attributes

Replace Object

PUT

/axapi/v3/controller/partition-tenant-info

partition-tenant-info attributes

Delete Object

DELETE

/axapi/v3/controller/partition-tenant-info

partition-tenant-info attributes

partition-tenant-info attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.32.4 controller partition-tenant-info oper

Operational Status for the object partition-tenant-info

partition-tenant-info Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	partition-tenant-info
Element URI	/axapi/v3/controller/partition-tenant-info/oper
Element Attributes	partition-tenant-info_attributes
Partition Visibility	None
Schema	`partition-tenant-info schema`

Operations Allowed:

Create Object

POST

/axapi/v3/controller/partition-tenant-info/oper

partition-tenant-info attributes

Get Object

GET

/axapi/v3/controller/partition-tenant-info/oper

partition-tenant-info attributes

Modify Object

POST

/axapi/v3/controller/partition-tenant-info/oper

partition-tenant-info attributes

Replace Object

PUT

/axapi/v3/controller/partition-tenant-info/oper

partition-tenant-info attributes

Delete Object

DELETE

/axapi/v3/controller/partition-tenant-info/oper

partition-tenant-info attributes

partition-tenant-info attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

cluster-id

Description

Type: string

cluster-name

Description

Type: string

log-rate-per-sec

Description

Type: number

partition-name

Description

Type: string

tenant-id

Description

Type: string

tenant-name

Description

Type: string

2.32.5 controller profile

A10 controller profile

profile Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	profile
Element URI	/axapi/v3/controller/profile
Element Attributes	profile_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/controller/profile/oper
Schema	`profile schema`

Operations Allowed:

Create Object

POST

/axapi/v3/controller/profile

profile attributes

Get Object

GET

/axapi/v3/controller/profile

profile attributes

Modify Object

POST

/axapi/v3/controller/profile

profile attributes

Replace Object

PUT

/axapi/v3/controller/profile

profile attributes

Delete Object

DELETE

/axapi/v3/controller/profile

profile attributes

profile attributes

action

Description 'register': Register the device to the controller; 'deregister': Deregister the device from controller;

Type: string

Supported Values: register, deregister

analytics

Description 'all': Export all the analytics information.; 'system': Export only system level policy for device management.; 'disable': Disable all the exports from the device. This is the default value.;

Type: string

Supported Values: all, system, disable

Default: disable

analytics-data

Description Use data port for analytics information exportation, if not set analytics will follow 'host use-mgmt-port' option

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

api-key

Description API key for authentication

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

auto-restart-action

Description 'enable': enable auto analytics bus restart, default behavior is enable; 'disable': disable auto analytics bus restart;

Type: string

Supported Values: enable, disable

Default: enable

availability-zone

Description availablity zone of the thunder-device

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

cluster-id

Description id for the cluster in controller, typically an uuid

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

cluster-name

Description name of cluster in controller that this device is a member of

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

force

Description: force is a **JSON Block**. Please see below for *force*

Type: Object

Reference Object: */axapi/v3/controller/profile/force*

host

Description Set controller host address

Type: string

Format: host

Mutual Exclusion: host and host-ipv6 are mutually exclusive

host-ipv6

Description IPV6 address or FQDN for the host

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: host-ipv6 and host are mutually exclusive

interval

Description auto analytics bus restart time interval in mins, default is 3 mins

Type: number

Range: 1-15

Default: 3

organization

Description organization for the controller

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

password-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

port

Description Set port for remote Controller

Type: number

Range: 1-32767

re-sync

Description: re-sync is a **JSON Block**. Please see below for *re-sync*

Type: Object

Reference Object: */axapi/v3/controller/profile/re-sync*

region

Description region of the thunder-device

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

secret-value

Description Specify the password for the user

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

thunder-mgmt-ip

Description: thunder-mgmt-ip is a **JSON Block**. Please see below for *thunder-mgmt-ip*

Type: Object

Reference Object: */axapi/v3/controller/profile/thunder-mgmt-ip*

tunnel

Description: tunnel is a **JSON Block**. Please see below for *tunnel*

Type: Object

Reference Object: */axapi/v3/controller/profile/tunnel*

use-mgmt-port

Description Use management port for connections

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-name

Description user-name for the tenant

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

force

Specification	Value
Type	*object*

deregister

Description forcefully deregister thunder from harmony controller

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

re-sync

Specification	Value
Type	*object*

analytics-bus

Description re-sync analtyics bus connections

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

schema-registry

Description re-sync the schema registry

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel

Specification	Value
Type	*object*

action

Description 'enable': Tunnel Enable; 'disable': Tunnel Disable;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

thunder-mgmt-ip

Specification	Value
Type	*object*

ip-address

Description IP address (IPv4 address)

Type: string

Format: ipv4-address

Mutual Exclusion: ip-address and ipv6-addr are mutually exclusive

ipv6-addr

Description IPV6 address for the host

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-addr and ip-address are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.32.6 controller profile oper

Operational Status for the object profile

profile Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	profile
Element URI	/axapi/v3/controller/profile/oper
Element Attributes	profile_attributes
Partition Visibility	None
Schema	`profile schema`

Operations Allowed:

Create Object

POST

/axapi/v3/controller/profile/oper

profile attributes

Get Object

GET

/axapi/v3/controller/profile/oper

profile attributes

Modify Object

POST

/axapi/v3/controller/profile/oper

profile attributes

Replace Object

PUT

/axapi/v3/controller/profile/oper

profile attributes

Delete Object

DELETE

/axapi/v3/controller/profile/oper

profile attributes

profile attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

Number-of-orgunit-mapped-partitions

Description

Type: number

Number-of-orgunit-unmapped-partitions

Description

Type: number

broker_info

Description

Type: string

deregistration-error-message

Description

Type: string

deregistration-status

Description

Type: string

deregistration-status-code

Description

Type: number

heartbeat-error-message

Description

Type: string

heartbeat-status

Description

Type: string

kafka-broker-state

Description

Type: string

Supported Values: Up, Down

overall-status

Description

Type: string

peer-device-info

Description

Type: string

registration-error-message

Description

Type: string

registration-status

Description

Type: string

registration-status-code

Description

Type: number

schema-registry-status

Description

Type: string

service-registry

Description

Type: string

service-registry-error-message

Description

Type: string

tunnel-error-message

Description

Type: string

tunnel-status

Description

Type: string

2.32.7 controller profile thunder-mgmt-ip

thunder management ip address

thunder-mgmt-ip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	thunder-mgmt-ip
Element URI	/axapi/v3/controller/profile/thunder-mgmt-ip
Element Attributes	thunder-mgmt-ip_attributes
Partition Visibility	shared
Schema	`thunder-mgmt-ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/controller/profile/thunder-mgmt-ip

thunder-mgmt-ip attributes

Get Object

GET

/axapi/v3/controller/profile/thunder-mgmt-ip

thunder-mgmt-ip attributes

Modify Object

POST

/axapi/v3/controller/profile/thunder-mgmt-ip

thunder-mgmt-ip attributes

Replace Object

PUT

/axapi/v3/controller/profile/thunder-mgmt-ip

thunder-mgmt-ip attributes

Delete Object

DELETE

/axapi/v3/controller/profile/thunder-mgmt-ip

thunder-mgmt-ip attributes

thunder-mgmt-ip attributes

ip-address

Description IP address (IPv4 address)

Type: string

Format: ipv4-address

Mutual Exclusion: ip-address and ipv6-addr are mutually exclusive

ipv6-addr

Description IPV6 address for the host

Type: string

Format: ipv6-address

Mutual Exclusion: ipv6-addr and ip-address are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.32.8 controller profile tunnel

tunnel status

tunnel Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tunnel
Element URI	/axapi/v3/controller/profile/tunnel
Element Attributes	tunnel_attributes
Partition Visibility	shared
Schema	`tunnel schema`

Operations Allowed:

Create Object

POST

/axapi/v3/controller/profile/tunnel

tunnel attributes

Get Object

GET

/axapi/v3/controller/profile/tunnel

tunnel attributes

Modify Object

POST

/axapi/v3/controller/profile/tunnel

tunnel attributes

Replace Object

PUT

/axapi/v3/controller/profile/tunnel

tunnel attributes

Delete Object

DELETE

/axapi/v3/controller/profile/tunnel

tunnel attributes

tunnel attributes

action

Description 'enable': Tunnel Enable; 'disable': Tunnel Disable;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.32.9 controller telemetry

Controller telemetry config

telemetry Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	telemetry
Element URI	/axapi/v3/controller/telemetry
Element Attributes	telemetry_attributes
Partition Visibility	shared
Schema	`telemetry schema`

Operations Allowed:

Create Object

POST

/axapi/v3/controller/telemetry

telemetry attributes

Get Object

GET

/axapi/v3/controller/telemetry

telemetry attributes

Modify Object

POST

/axapi/v3/controller/telemetry

telemetry attributes

Replace Object

PUT

/axapi/v3/controller/telemetry

telemetry attributes

Delete Object

DELETE

/axapi/v3/controller/telemetry

telemetry attributes

telemetry attributes

log-rate

Description Max number of session logs sent by the partition per second

Type: number

Range: 0-10000

Default: 10

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.32.10 controller tunnel-stats

Harmony controller tunnel statistics

tunnel-stats Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tunnel-stats
Element URI	/axapi/v3/controller/tunnel-stats
Element Attributes	tunnel-stats_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/controller/tunnel-stats/oper
Schema	`tunnel-stats schema`

Operations Allowed:

Create Object

POST

/axapi/v3/controller/tunnel-stats

tunnel-stats attributes

Get Object

GET

/axapi/v3/controller/tunnel-stats

tunnel-stats attributes

Modify Object

POST

/axapi/v3/controller/tunnel-stats

tunnel-stats attributes

Replace Object

PUT

/axapi/v3/controller/tunnel-stats

tunnel-stats attributes

Delete Object

DELETE

/axapi/v3/controller/tunnel-stats

tunnel-stats attributes

tunnel-stats attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.32.11 controller tunnel-stats oper

Operational Status for the object tunnel-stats

tunnel-stats Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tunnel-stats
Element URI	/axapi/v3/controller/tunnel-stats/oper
Element Attributes	tunnel-stats_attributes
Partition Visibility	None
Schema	`tunnel-stats schema`

Operations Allowed:

Create Object

POST

/axapi/v3/controller/tunnel-stats/oper

tunnel-stats attributes

Get Object

GET

/axapi/v3/controller/tunnel-stats/oper

tunnel-stats attributes

Modify Object

POST

/axapi/v3/controller/tunnel-stats/oper

tunnel-stats attributes

Replace Object

PUT

/axapi/v3/controller/tunnel-stats/oper

tunnel-stats attributes

Delete Object

DELETE

/axapi/v3/controller/tunnel-stats/oper

tunnel-stats attributes

tunnel-stats attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

bytes-recieved

Description

Type: number

bytes-sent

Description

Type: number

error-message

Description

Type: string

number-of-errors

Description

Type: number

status

Description

Type: string

uptime

Description

Type: string

2.33 ddos

Objects:

2.33.1 ddos

DDOS feature

ddos Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	ddos
Element URI	/axapi/v3/ddos
Element Attributes	ddos_attributes
Partition Visibility	shared
Schema	`ddos schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos

ddos_attributes

ddos attributes

action-list-list

Type: List

Reference Object: */axapi/v3/ddos/action-list/{name}*

anomaly

Description: anomaly is a **JSON Block**. Please see below for *anomaly*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly*

anomaly-drop

Description: anomaly-drop is a **JSON Block**. Please see below for *anomaly-drop*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly-drop*

brief

Description: brief is a **JSON Block**. Please see below for *brief*

Type: Object

Reference Object: */axapi/v3/ddos/brief*

detection

Description: detection is a **JSON Block**. Please see below for *detection*

Type: Object

Reference Object: */axapi/v3/ddos/detection*

dns-cache-config

Description: dns-cache-config is a **JSON Block**. Please see below for *dns-cache-config*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache-config*

dns-cache-list

Type: List

Reference Object: */axapi/v3/ddos/dns-cache/{name}*

dns-cache-mode

Description: dns-cache-mode is a **JSON Block**. Please see below for *dns-cache-mode*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache-mode*

dns-cache-server

Description: dns-cache-server is a **JSON Block**. Please see below for *dns-cache-server*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache-server*

dns-logging-list

Type: List

Reference Object: */axapi/v3/ddos/dns-logging/{name}*

dst

Description: dst is a **JSON Block**. Please see below for *dst*

Type: Object

Reference Object: */axapi/v3/ddos/dst*

dynamic-class-list

Description: dynamic-class-list is a **JSON Block**. Please see below for *dynamic-class-list*

Type: Object

Reference Object: */axapi/v3/ddos/dynamic-class-list*

east-west-protection

Description: east-west-protection is a **JSON Block**. Please see below for *east-west-protection*

Type: Object

Reference Object: */axapi/v3/ddos/east-west-protection*

event-filter-list

Type: List

Reference Object: */axapi/v3/ddos/event-filter/{filter-name}*

exec-script

Description: exec-script is a **JSON Block**. Please see below for *exec-script*

Type: Object

Reference Object: */axapi/v3/ddos/exec-script*

geo-location

Description: geo-location is a **JSON Block**. Please see below for *geo-location*

Type: Object

Reference Object: */axapi/v3/ddos/geo-location*

interface-http-health-check

Description: interface-http-health-check is a **JSON Block**. Please see below for *interface-http-health-check*

Type: Object

Reference Object: */axapi/v3/ddos/interface-http-health-check*

ip-filtering-policy-list

Type: List

Reference Object: */axapi/v3/ddos/ip-filtering-policy/{name}*

ip-proto

Description: ip-proto is a **JSON Block**. Please see below for *ip-proto*

Type: Object

Reference Object: */axapi/v3/ddos/ip-proto*

l4-icmp

Description: l4-icmp is a **JSON Block**. Please see below for *l4-icmp*

Type: Object

Reference Object: */axapi/v3/ddos/l4-icmp*

l4-other

Description: l4-other is a **JSON Block**. Please see below for *l4-other*

Type: Object

Reference Object: */axapi/v3/ddos/l4-other*

l4-ssl

Description: l4-ssl is a **JSON Block**. Please see below for *l4-ssl*

Type: Object

Reference Object: */axapi/v3/ddos/l4-ssl*

l4-sync

Description: l4-sync is a **JSON Block**. Please see below for *l4-sync*

Type: Object

Reference Object: */axapi/v3/ddos/l4-sync*

l4-tcp

Description: l4-tcp is a **JSON Block**. Please see below for *l4-tcp*

Type: Object

Reference Object: */axapi/v3/ddos/l4-tcp*

l4-udp

Description: l4-udp is a **JSON Block**. Please see below for *l4-udp*

Type: Object

Reference Object: */axapi/v3/ddos/l4-udp*

l7-dns

Description: l7-dns is a **JSON Block**. Please see below for *l7-dns*

Type: Object

Reference Object: */axapi/v3/ddos/l7-dns*

l7-http

Description: l7-http is a **JSON Block**. Please see below for *l7-http*

Type: Object

Reference Object: */axapi/v3/ddos/l7-http*

l7-quic

Description: l7-quic is a **JSON Block**. Please see below for *l7-quic*

Type: Object

Reference Object: */axapi/v3/ddos/l7-quic*

l7-sip

Description: l7-sip is a **JSON Block**. Please see below for *l7-sip*

Type: Object

Reference Object: */axapi/v3/ddos/l7-sip*

local-address

Description: local-address is a **JSON Block**. Please see below for *local-address*

Type: Object

Reference Object: */axapi/v3/ddos/local-address*

logging

Description: logging is a **JSON Block**. Please see below for *logging*

Type: Object

Reference Object: */axapi/v3/ddos/logging*

long

Description: long is a **JSON Block**. Please see below for *long*

Type: Object

Reference Object: */axapi/v3/ddos/long*

multi-pu-traffic-stats

Description: multi-pu-traffic-stats is a **JSON Block**. Please see below for *multi-pu-traffic-stats*

Type: Object

Reference Object: */axapi/v3/ddos/multi-pu-traffic-stats*

network-ip-entity

Description: network-ip-entity is a **JSON Block**. Please see below for *network-ip-entity*

Type: Object

Reference Object: */axapi/v3/ddos/network-ip-entity*

network-object-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}*

notification-template-common

Description: notification-template-common is a **JSON Block**. Please see below for *notification-template-common*

Type: Object

Reference Object: */axapi/v3/ddos/notification-template-common*

notification-template-debug-log

Description: notification-template-debug-log is a **JSON Block**. Please see below for *notification-template-debug-log*

Type: Object

Reference Object: */axapi/v3/ddos/notification-template-debug-log*

notification-template-list

Type: List

Reference Object: */axapi/v3/ddos/notification-template/{name}*

outbound-policy-list

Type: List

Reference Object: */axapi/v3/ddos/outbound-policy/{name}*

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/pattern-recognition*

port

Description: port is a **JSON Block**. Please see below for *port*

Type: Object

Reference Object: */axapi/v3/ddos/port*

protect

Description: protect is a **JSON Block**. Please see below for *protect*

Type: Object

Reference Object: */axapi/v3/ddos/protect*

protection

Description: protection is a **JSON Block**. Please see below for *protection*

Type: Object

Reference Object: */axapi/v3/ddos/protection*

reporting

Description: reporting is a **JSON Block**. Please see below for *reporting*

Type: Object

Reference Object: */axapi/v3/ddos/reporting*

resource-tracking

Description: resource-tracking is a **JSON Block**. Please see below for *resource-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/resource-tracking*

resource-usage

Description: resource-usage is a **JSON Block**. Please see below for *resource-usage*

Type: Object

Reference Object: */axapi/v3/ddos/resource-usage*

run-time-user-string

Description: run-time-user-string is a **JSON Block**. Please see below for *run-time-user-string*

Type: Object

Reference Object: */axapi/v3/ddos/run-time-user-string*

session

Description: session is a **JSON Block**. Please see below for *session*

Type: Object

Reference Object: */axapi/v3/ddos/session*

signature-extraction

Description: signature-extraction is a **JSON Block**. Please see below for *signature-extraction*

Type: Object

Reference Object: */axapi/v3/ddos/signature-extraction*

src

Description: src is a **JSON Block**. Please see below for *src*

Type: Object

Reference Object: */axapi/v3/ddos/src*

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/src-based-policy/{name}*

src-port-template

Description: src-port-template is a **JSON Block**. Please see below for *src-port-template*

Type: Object

Reference Object: */axapi/v3/ddos/src-port-template*

switch

Description: switch is a **JSON Block**. Please see below for *switch*

Type: Object

Reference Object: */axapi/v3/ddos/switch*

sync

Description: sync is a **JSON Block**. Please see below for *sync*

Type: Object

Reference Object: */axapi/v3/ddos/sync*

system-default

Description: system-default is a **JSON Block**. Please see below for *system-default*

Type: Object

Reference Object: */axapi/v3/ddos/system-default*

table

Description: table is a **JSON Block**. Please see below for *table*

Type: Object

Reference Object: */axapi/v3/ddos/table*

tap

Description: tap is a **JSON Block**. Please see below for *tap*

Type: Object

Reference Object: */axapi/v3/ddos/tap*

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

Reference Object: */axapi/v3/ddos/template*

token-auth

Description: token-auth is a **JSON Block**. Please see below for *token-auth*

Type: Object

Reference Object: */axapi/v3/ddos/token-auth*

token-authentication

Description: token-authentication is a **JSON Block**. Please see below for *token-authentication*

Type: Object

Reference Object: */axapi/v3/ddos/token-authentication*

tunnel

Description: tunnel is a **JSON Block**. Please see below for *tunnel*

Type: Object

Reference Object: */axapi/v3/ddos/tunnel*

use-default-route

Description: use-default-route is a **JSON Block**. Please see below for *use-default-route*

Type: Object

Reference Object: */axapi/v3/ddos/use-default-route*

violation-actions-list

Type: List

Reference Object: */axapi/v3/ddos/violation-actions/{name}*

zone-profile-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}*

zone-src-port-template

Description: zone-src-port-template is a **JSON Block**. Please see below for *zone-src-port-template*

Type: Object

Reference Object: */axapi/v3/ddos/zone-src-port-template*

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template*

run-time-user-string

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Add run time user string

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

pattern-recognition

Specification	Value
Type	*object*

capture-backup

Description Capture Backup

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capturing-timeout

Description Capturing state timeout in seconds

Type: number

Range: 10-60000

cpu

Description: cpu is a **JSON Block**. Please see below for *pattern-recognition_cpu*

Type: Object

Reference Object: */axapi/v3/ddos/pattern-recognition/cpu*

cpu-limit

Description CPU Limit

Type: number

Range: 1-100

dedicated-cpus

Description Configure the number of dedicated cores for Pattern Recognition

Type: number

Range: 0-6

disable-app-payload-all

Description Disable application payload processing for all ports

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

error-timeout

Description Error state timeout in seconds

Type: number

Range: 10-60000

extracting-timeout

Description Extracting state timeout in seconds

Type: number

Range: 10-60000

hardware-filter

Description 'enable': Enable Pattern Recognition hardware filter; 'disable': Disable Pattern Recognition harware filter;

Type: string

Supported Values: enable, disable

Default: disable

sample-size

Description Sample Size

Type: number

Range: 1-50000

scheduling-timeout

Description Scheduling state timeout in seconds

Type: number

Range: 10-60000

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

sflow-event-periodic-interval

Description Configure the interval in minutes of periodic event (Default: 5 minutes, 0: No periodic updates)

Type: number

Range: 0-120

Default: 5

toggle

Description 'enable': Enable Pattern Recognition; 'disable': Disable Pattern Recognition;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pattern-recognition_cpu

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tap

Specification	Value
Type	*object*

ethernet-start-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tap_ethernet-start-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description

Type: number

Format: interface

ethernet-start

Description Traffic receive from the ethernet port will be dropped

Type: number

Format: interface

ip-proto

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/src-based-policy/{name}/policy-class-list/{class-list-name}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-ip-entity

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-class-list

Specification	Value
Type	*object*

class-list-name

Description Specify name of the class list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sync

Specification	Value
Type	*object*

enable

Description Enable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

local-ip

Description Local IP address for White list sync

Type: string

Format: ipv4-address

peer-ip-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sync_peer-ip-cfg

Specification	Value
Type	*list*
Block object keys	

peer-ip

Description IP Address

Type: string

Format: ipv4-address

brief

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection

Specification	Value
Type	*object*

agent-group-list

Type: List

Reference Object: */axapi/v3/ddos/detection/agent-group/{agent-group-name}*

agent-list

Type: List

Reference Object: */axapi/v3/ddos/detection/agent/{agent-name}*

ddos-script

Description: ddos-script is a **JSON Block**. Please see below for *detection_ddos-script*

Type: Object

Reference Object: */axapi/v3/ddos/detection/ddos-script*

disable

Description Disable DDoS detection (default: enabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-saving

Description: entry-saving is a **JSON Block**. Please see below for *detection_entry-saving*

Type: Object

Reference Object: */axapi/v3/ddos/detection/entry-saving*

resource-usage

Description: resource-usage is a **JSON Block**. Please see below for *detection_resource-usage*

Type: Object

Reference Object: */axapi/v3/ddos/detection/resource-usage*

settings

Description: settings is a **JSON Block**. Please see below for *detection_settings*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings*

statistics

Description: statistics is a **JSON Block**. Please see below for *detection_statistics*

Type: Object

Reference Object: */axapi/v3/ddos/detection/statistics*

trustlist

Description: trustlist is a **JSON Block**. Please see below for *detection_trustlist*

Type: Object

Reference Object: */axapi/v3/ddos/detection/trustlist*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_resource-usage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_trustlist

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-class-list

Description IPv4 Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

v6-class-list

Description IPv6 Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

detection_entry-saving

Specification	Value
Type	*object*

clear-saved-data

Description Clear all saved network-object-based detection entries and learned indicators

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-restore

Description Manually restore network-object-based detection entries and learned indicators

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-save

Description Manually save network-object-based detection entries and learned indicators

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_settings

Specification	Value
Type	*object*

ctrl-cpu-usage

Description Control cpu usage threshold for DDoS detection

Type: number

Range: 1-100

de-escalation-quiet-time

Description Configure de-escalation needed time in minutes from level 1 to 0.(default 1 minutes)

Type: number

Range: 1-60

dedicated-cpus

Description Configure the number of dedicated cores for detection

Type: number

Range: 1-32

detection-window-size

Description Configure detection window size in seconds (DDoS detection window size in seconds(default: 1))

Type: number

Range: 1-60

Default: 1

detector-mode

Description 'standalone': Standalone detector; 'on-box': Mitigator and Detector on the same box; 'auto-svc-discovery': Auto Service discovery using Visibility module (Deprecatd);

Type: string

Supported Values: standalone, on-box, auto-svc-discovery

entry-saving

Description: entry-saving is a **JSON Block**. Please see below for *detection_settings_entry-saving*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/entry-saving*

export-interval

Description Configure Baselining and export interval in seconds (DDoS Baselining and export interval in seconds(default: 20))

Type: number

Range: 20-3000

Default: 20

full-core-enable

Description Enable full core

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

histogram-de-escalate-percentage

Description histogram de-escalate sensitivity for DDoS detection

Type: number

Range: 1-100

histogram-escalate-percentage

Description histogram escalate sensitivity for DDoS detection

Type: number

Range: 1-100

initial-learning-interval

Description Initial learning interval (in hours) before processing

Type: number

Range: 1-168

network-object-flooding-multiple

Description multiplier for flooding detection threshold in network objects (default 2x threshold)

Type: number

Range: 2-10

Default: 2

network-object-subnet-notify-percent

Description Send subnet notification when anomaly children subnet entries over configured percentage.(default 50%)

Type: number

Range: 1-100

network-object-window-size

Description '5': 5 seconds; '10': 10 seconds; '15': 15 seconds; '30': 30 seconds; (DDoS detection window size in seconds(default: 30))

Type: string

Supported Values: 5, 10, 15, 30

Default: 30

notification-debug-log

Description 'enable': Enable detection notification debug log (default: disabled);

Type: string

Supported Values: enable

pkt-sampling

Type: List

standalone-settings

Description: standalone-settings is a **JSON Block**. Please see below for *detection_settings_standalone-settings*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/standalone-settings*

top-k-reset-interval

Description Configure top-k reset interval

Type: number

Range: 1-60

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-notifications

Description: zone-notifications is a **JSON Block**. Please see below for *detection_settings_zone-notifications*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/zone-notifications*

detection_settings_entry-saving

Specification	Value
Type	*object*

disable-bootup-restore

Description Disable auto-restoring when system boots up

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

interval

Description Configure periodical auto-saving interval in minutes

Type: number

Range: 1-1440

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_settings_standalone-settings

Specification	Value
Type	*object*

action

Description 'enable': Enable standalone detector; 'disable': Disable standalone detector (default);

Type: string

Supported Values: enable, disable

Default: disable

netflow

Description: netflow is a **JSON Block**. Please see below for *detection_settings_standalone-settings_netflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/standalone-settings/netflow*

sflow

Description: sflow is a **JSON Block**. Please see below for *detection_settings_standalone-settings_sflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/standalone-settings/sflow*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_settings_standalone-settings_netflow

Specification	Value
Type	*object*

distribute-by-duration

Description 'enable': Enable data distribution by flow duration(default); 'disable': Disable data distribution by flow duration;

Type: string

Supported Values: enable, disable

Default: enable

listening-port

Description Netflow port to receive packets (Netflow port number(default 9996))

Type: number

Range: 1-65535

Default: 9996

template-active-timeout

Description Configure active timeout of the netflow templates received in mins (Template active timeout(mins)(default 30mins))

Type: number

Range: 2-300

Default: 30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_settings_standalone-settings_sflow

Specification	Value
Type	*object*

listening-port

Description sFlow port to receive packets (sFlow port number(default 6343))

Type: number

Range: 1-65535

Default: 6343

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_settings_pkt-sampling

Specification	Value
Type	*list*
Block object keys	

override-rate

Description Sample 1 in X packets (default: X=1)

Type: number

Range: 1-50000000

start-level

Description Configure the start level for dynamic sampling adjustment (Sample 1 in N packets, the larger level the larger value of N (default: 1))

Type: number

Range: 1-10

Default: 1

detection_settings_zone-notifications

Specification	Value
Type	*object*

source-entry

Description 'enable': Enable source entry detection notification; 'disable': Disable source entry detection notification(default);

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_agent-group-list

Specification	Value
Type	*list*
Block object keys	

agent

Type: List

agent-group-name

Description Specify name for the agent-group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_agent-group-list_agent

Specification	Value
Type	*list*
Block object keys	

agent-name

Description detection agent name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/detection/agent*

detection_statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_ddos-script

Specification	Value
Type	*object*

action

Description 'delete': delete;

Type: string

Supported Values: delete

file

Description startup-config local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_agent-list

Specification	Value
Type	*list*
Block object keys	

agent-name

Description Specify name for the agent

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

agent-type

Description 'Cisco': Cisco; 'Juniper': Juniper;

Type: string

Supported Values: Cisco, Juniper

agent-v4-addr

Description Configure agent's IPv4 address

Type: string

Format: ipv4-address

agent-v6-addr

Description Configure agent's IPv6 address

Type: string

Format: ipv6-address

netflow

Description: netflow is a **JSON Block**. Please see below for *detection_agent-list_netflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/agent/{agent-name}/netflow*

sampling-enable

Type: List

sflow

Description: sflow is a **JSON Block**. Please see below for *detection_agent-list_sflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/agent/{agent-name}/sflow*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_agent-list_sflow

Specification	Value
Type	*object*

sflow-pkt-samples-collection

Description 'enable': Enable sflow packet samples collection(default); 'disable': Disable sflow packet samples collection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_agent-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'sflow-packets-received': sFlow Packets Received; 'sflow-samples-received': sFlow Samples Received; 'sflow-samples-bad-len': sFlow Samples Bad Length; 'sflow-samples-non-std': sFlow Samples Non-standard; 'sflow-samples-skipped': sFlow Samples Skipped; 'sflow-sample-record-bad-len': sFlow Sample Records Bad Length; 'sflow-samples-sent-for-detection': sFlow Samples Processed For Detection; 'sflow-sample-record-invalid-layer2': sFlow Sample Records Unknown Layer-2; 'sflow-sample-ipv6-hdr-parse-fail': sFlow Sample IPv6 Record Header Parse Failures; 'sflow-disabled': sFlow Packet Samples Processing Disabled; 'netflow-disabled': Netflow Flow Samples Processing Disabled; 'netflow-v5-packets-received': Netflow v5 Packets Received; 'netflow-v5-samples-received': Netflow v5 Samples Received; 'netflow-v5-samples-sent-for-detection': Netflow v5 Samples Processed For Detection; 'netflow-v5-sample-records-bad-len': Netflow v5 Sample Records Bad Length; 'netflow-v5-max-records-exceed': Netflow v5 Sample Max Records Error; 'netflow-v9-packets-received': Netflow v9 Packets Received; 'netflow-v9-samples-received': Netflow v9 Samples Received; 'netflow-v9-samples-sent-for-detection': Netflow v9 Samples Processed For Detection; 'netflow-v9-sample-records-bad-len': Netflow v9 Sample Records Bad Length; 'netflow-v9-sample-flowset-bad-padding': Netflow v9 Sample Flowset Bad Padding; 'netflow-v9-max-records-exceed': Netflow v9 Sample Max Records Error; 'netflow-v9-template-not-found': Netflow v9 Template Not Found; 'netflow-v10-packets-received': Netflow v10 Packets Received; 'netflow-v10-samples-received': Netflow v10 Samples Received; 'netflow-v10-samples-sent-for-detection': Netflow v10 Samples Procssed For Detection; 'netflow-v10-sample-records-bad-len': Netflow v10 Sample Records Bad Length; 'netflow-v10-max-records-exceed': Netflow v10 Sample Max records Error; 'netflow-tcp-sample-received': Netflow TCP Samples Received; 'netflow-udp-sample-received': Netflow UDP Samples received; 'netflow-icmp-sample-received': Netflow ICMP Samples Received; 'netflow-other-sample-received': Netflow OTHER Samples Received; 'netflow-record-copy-oom-error': Netflow Data Record Copy Fail, Local MEM size error; 'netflow-record-rse-invalid': Netflow Data Record Reduced Size Invalid; 'netflow-sample-flow-dur-error': Netflow Sample Flow Duration Error; 'flow-dst-entry-miss': DDoS Destination Entry Lookup Failures; 'flow-ip-proto-or-port-miss': DDoS Destination Service Lookup Failures; 'flow-detection-msgq-full': Detection Message Enqueue Failures;

Type: string

Supported Values: all, sflow-packets-received, sflow-samples-received, sflow-samples-bad-len, sflow-samples-non-std, sflow-samples-skipped, sflow-sample-record-bad-len, sflow-samples-sent-for-detection, sflow-sample-record-invalid-layer2, sflow-sample-ipv6-hdr-parse-fail, sflow-disabled, netflow-disabled, netflow-v5-packets-received, netflow-v5-samples-received, netflow-v5-samples-sent-for-detection, netflow-v5-sample-records-bad-len, netflow-v5-max-records-exceed, netflow-v9-packets-received, netflow-v9-samples-received, netflow-v9-samples-sent-for-detection, netflow-v9-sample-records-bad-len, netflow-v9-sample-flowset-bad-padding, netflow-v9-max-records-exceed, netflow-v9-template-not-found, netflow-v10-packets-received, netflow-v10-samples-received, netflow-v10-samples-sent-for-detection, netflow-v10-sample-records-bad-len, netflow-v10-max-records-exceed, netflow-tcp-sample-received, netflow-udp-sample-received, netflow-icmp-sample-received, netflow-other-sample-received, netflow-record-copy-oom-error, netflow-record-rse-invalid, netflow-sample-flow-dur-error, flow-dst-entry-miss, flow-ip-proto-or-port-miss, flow-detection-msgq-full,

flow-network-entry-miss

detection_agent-list_netflow

Specification	Value
Type	*object*

active-timeout

Description Configure agent's flow active timeout (seconds)

Type: number

Range: 10-600

inactive-timeout

Description Configure agent's flow inactive timeout (seconds)

Type: number

Range: 10-600

netflow-samples-collection

Description 'enable': Enable Netflow flow samples collection(default); 'disable': Disable Netflow flow samples collection;

Type: string

Supported Values: enable, disable

Default: enable

netflow-sampling-rate

Description Configure agent's netflow sampling rate

Type: number

Range: 1-65535

Default: 1

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

long

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

exec-script

Specification	Value
Type	*object*

alert-type

Description 1: UDP Pkt Rate 2: TCP Pkt Rate 3: ICMP Pkt Rate

Type: number

Range: 1-3

exec-script-ip-portocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6; 'other': ip-proto other; 'gre': ip-proto gre; 'ipv4-encap': ip-proto IPv4 Encapsulation; 'ipv6-encap': ip-proto IPv6 Encapsulation;

Type: string

Supported Values: icmp-v4, icmp-v6, other, gre, ipv4-encap, ipv6-encap

exec-script-port-other-protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

level

Description Current Level

Type: number

Range: 1-4

mock

Description Use mock data

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-num

Description Port Number

Type: number

Range: 1-65535

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-tcp': SIP-TCP Port; 'sip-udp': SIP-UDP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-tcp, sip-udp, quic

protocol-num

Description Protocol Number

Type: number

Range: 0-255

script

Description Specify script to execute

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

src-ip

Type: List

src-ipv6

Type: List

threshold

Description Threshold

Type: number

Range: 1-3000

timeout

Description Timeout (Default: 10 seconds, Mock Default: 2 seconds)

Type: number

Range: 1-31

zone

Description DST Zone name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

exec-script_src-ip

Specification	Value
Type	*list*
Block object keys	

ip-addr

Description Specify IP address

Type: string

Format: ipv4-address

subnet-ip-addr

Description IP Subnet

Type: string

Format: ipv4-cidr

exec-script_src-ipv6

Specification	Value
Type	*list*
Block object keys	

ip6-addr

Description Specify IPv6 address

Type: string

Format: ipv6-address

subnet-ipv6-addr

Description IPV6 Subnet

Type: string

Format: ipv6-address-plen

l4-ssl

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

table

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

east-west-protection

Specification	Value
Type	*object*

deployment-mode

Description 'L2-mode': Enable East-West Protection in Layer 2 mode.; 'L2-with-virtual-wire': Enable East-West Protection in Layer 2 mode with virtual-wire pairs.; 'L3-mode': Enable East-West Protection in Layer 3 mode.; 'disable': Disable East-West Protection.;

Type: string

Supported Values: L2-mode, L2-with-virtual-wire, L3-mode, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

token-authentication

Specification	Value
Type	*object*

authenticated-list

Description: authenticated-list is a **JSON Block**. Please see below for *token-authentication_authenticated-list*

Type: Object

Reference Object: */axapi/v3/ddos/token-authentication/authenticated-list*

player-mode

Description: player-mode is a **JSON Block**. Please see below for *token-authentication_player-mode*

Type: Object

Reference Object: */axapi/v3/ddos/token-authentication/player-mode*

players-list

Type: List

Reference Object: */axapi/v3/ddos/token-authentication/players/{src-ip}+{src-port}+{dst-ip}+{dst-port}*

secret-salt

Description: secret-salt is a **JSON Block**. Please see below for *token-authentication_secret-salt*

Type: Object

Reference Object: */axapi/v3/ddos/token-authentication/secret-salt*

summary

Description: summary is a **JSON Block**. Please see below for *token-authentication_summary*

Type: Object

Reference Object: */axapi/v3/ddos/token-authentication/summary*

token-authentication_authenticated-list

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

token-authentication_player-mode

Specification	Value
Type	*object*

mode

Description 'one-to-one': Only one player talks to one server; 'many-to-one': Many player talk to one server;

Type: string

Supported Values: one-to-one, many-to-one

Default: many-to-one

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

token-authentication_summary

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

token-authentication_secret-salt

Specification	Value
Type	*object*

current-salt

Description Current salt value

Type: number

Range: 0-4294967295

previous-salt

Description Previous salt value

Type: number

Range: 0-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

token-authentication_players-list

Specification	Value
Type	*list*
Block object keys	

dst-ip

Description

Type: string

Format: ipv4-address

dst-port

Description

Type: number

Range: 0-65535

magic-value

Description

Type: number

Range: 0-4294967295

src-ip

Description

Type: string

Format: ipv4-address

src-port

Description

Type: number

Range: 0-65535

dns-cache-mode

Specification	Value
Type	*object*

enable

Description Enable DNS Cache mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-icmp

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

anomaly-drop

Specification	Value
Type	*object*

packet-deformity-layer-2

Description: packet-deformity-layer-2 is a **JSON Block**. Please see below for *anomaly-drop_packet-deformity-layer-2*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly-drop/packet-deformity-layer-2*

packet-deformity-layer-3

Description: packet-deformity-layer-3 is a **JSON Block**. Please see below for *anomaly-drop_packet-deformity-layer-3*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly-drop/packet-deformity-layer-3*

packet-deformity-layer-4

Description: packet-deformity-layer-4 is a **JSON Block**. Please see below for *anomaly-drop_packet-deformity-layer-4*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly-drop/packet-deformity-layer-4*

security-attack-layer-3

Description: security-attack-layer-3 is a **JSON Block**. Please see below for *anomaly-drop_security-attack-layer-3*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly-drop/security-attack-layer-3*

security-attack-layer-4-tcp

Description: security-attack-layer-4-tcp is a **JSON Block**. Please see below for *anomaly-drop_security-attack-layer-4-tcp*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly-drop/security-attack-layer-4-tcp*

security-attack-layer-4-udp

Description: security-attack-layer-4-udp is a **JSON Block**. Please see below for *anomaly-drop_security-attack-layer-4-udp*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly-drop/security-attack-layer-4-udp*

anomaly-drop_security-attack-layer-4-udp

Specification	Value
Type	*object*

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

anomaly-drop_security-attack-layer-4-tcp

Specification	Value
Type	*object*

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

anomaly-drop_security-attack-layer-3

Specification	Value
Type	*object*

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

anomaly-drop_packet-deformity-layer-3

Specification	Value
Type	*object*

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

anomaly-drop_packet-deformity-layer-2

Specification	Value
Type	*object*

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

anomaly-drop_packet-deformity-layer-4

Specification	Value
Type	*object*

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

token-auth

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-other

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst

Specification	Value
Type	*object*

default-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}*

dynamic-entries-resource-usage

Description: dynamic-entries-resource-usage is a **JSON Block**. Please see below for *dst_dynamic-entries-resource-usage*

Type: Object

Reference Object: */axapi/v3/ddos/dst/dynamic-entries-resource-usage*

dynamic-entry

Description: dynamic-entry is a **JSON Block**. Please see below for *dst_dynamic-entry*

Type: Object

Reference Object: */axapi/v3/ddos/dst/dynamic-entry*

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}*

entry-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}*

interface-ip-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ip/{addr}*

interface-ipv6-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ipv6/{addr}*

zone-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}*

dst_interface-ip-list

Specification	Value
Type	*list*
Block object keys	

addr

Description IP address of interface

Type: string

Format: ipv4-address

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ip/{addr}/ip-proto/{port-num}*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ip/{addr}/l4-type/{protocol}*

log-enable

Description Enable logging of limit exceed drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ip/{addr}/port/{port-num}+{protocol}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_interface-ip-list_port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'tcp': tcp; 'udp': udp; 'http-probe': http port for interface health check;

Type: string

Supported Values: tcp, udp, http-probe

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_interface-ip-list_ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description IP protocol number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_interface-ip-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *dst_interface-ip-list_l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *dst_interface-ip-list_l4-type-list_tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_interface-ip-list_l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

dst_interface-ip-list_l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

dst_interface-ip-list_l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_default-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 5-1023

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-address-type

Description 'ip': ip; 'ipv6': ipv6;

Type: string

Supported Values: ip, ipv6

deny

Description Blacklist and Drop all incoming packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable

Description Disable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-disable

Description Disable certain drops during packet processing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-disable-fwd-immediate

Description Immediately forward L4 drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *dst_default-list_exceed-log-cfg*

Type: Object

exceed-log-dep-cfg

Description: exceed-log-dep-cfg is a **JSON Block**. Please see below for *dst_default-list_exceed-log-dep-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

inbound-forward-dscp

Description To set dscp value for inbound packets (DSCP Value for the clear traffic marking)

Type: number

Range: 1-63

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}/ip-proto/{port-num}*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic dst entry

Type: number

Range: 0-2147483647

outbound-forward-dscp

Description To set dscp value for outbound

Type: number

Range: 1-63

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}/port/{port-num}+{protocol}*

src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}/src-port/{port-num}+{protocol}*

template

Description: template is a **JSON Block**. Please see below for *dst_default-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_default-list_port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-tcp': dns-tcp; 'dns-udp': dns-udp; 'http': http; 'tcp': tcp; 'udp': udp; 'ssl-l4': ssl-l4; 'sip-udp': sip-udp; 'sip-tcp': sip-tcp;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

template

Description: template is a **JSON Block**. Please see below for *dst_default-list_port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_default-list_port-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_default-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_default-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-syn-auth

Description Disable TCP SYN Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-port-match

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow. Exceed action set to Drop

Type: number

Range: 1-6

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-client

Description Send reset to client when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-server

Description Send reset to server when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *dst_default-list_l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *dst_default-list_l4-type-list_tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_default-list_l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_default-list_l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

dst_default-list_l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

dst_default-list_src-port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'udp': udp; 'tcp': tcp;

Type: string

Supported Values: udp, tcp

template

Description: template is a **JSON Block**. Please see below for *dst_default-list_src-port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_default-list_src-port-list_template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_default-list_ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Protocol Number

Type: number

Range: 0-255

template

Description: template is a **JSON Block**. Please see below for *dst_default-list_ip-proto-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_default-list_ip-proto-list_template

Specification	Value
Type	*object*

other

Description DDOS other template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_default-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

with-sflow-sample

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_default-list_exceed-log-dep-cfg

Specification	Value
Type	*object*

exceed-log-enable

Description (Deprecated)Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-with-sflow-dep

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_dynamic-entries-resource-usage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_interface-ipv6-list

Specification	Value
Type	*list*
Block object keys	

addr

Description IPv6 address of interface

Type: string

Format: ipv6-address

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ipv6/{addr}/ip-proto/{port-num}*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ipv6/{addr}/l4-type/{protocol}*

log-enable

Description Enable logging of limit exceed drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ipv6/{addr}/port/{port-num}+{protocol}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_interface-ipv6-list_port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'tcp': tcp; 'udp': udp; 'http-probe': http port for interface health check;

Type: string

Supported Values: tcp, udp, http-probe

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_interface-ipv6-list_ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description IP protocol number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_interface-ipv6-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *dst_interface-ipv6-list_l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *dst_interface-ipv6-list_l4-type-list_tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_interface-ipv6-list_l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

dst_interface-ipv6-list_l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

dst_interface-ipv6-list_l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_entry-list

Specification	Value
Type	*list*
Block object keys	

advertised-enable

Description BGP advertised

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

blackhole-on-glid-exceed

Description Blackhole destination entry for X minutes upon glid limit exceeded

Type: number

Range: 1-30

capture-config-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/capture-config/{name}*

description

Description Description for this Destination Entry

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dest-nat-ip

Description Destination NAT IP address

Type: string

Format: ipv4-address

dest-nat-ipv6

Description Destination NAT IPv6 address

Type: string

Format: ipv6-address

drop-disable

Description Disable certain drops during packet processing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-disable-fwd-immediate

Description Immediately forward L4 drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-src-dst-default

Description Drop if no match with src-based-policy class-list, and default is not configured

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-entry-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}*

enable-top-k

Type: List

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *dst_entry-list_exceed-log-cfg*

Type: Object

exceed-log-dep-cfg

Description: exceed-log-dep-cfg is a **JSON Block**. Please see below for *dst_entry-list_exceed-log-dep-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *dst_entry-list_glid-exceed-action*

Type: Object

hw-blacklist-blocking

Description: hw-blacklist-blocking is a **JSON Block**. Please see below for *dst_entry-list_hw-blacklist-blocking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/hw-blacklist-blocking*

inbound-forward-dscp

Description To set dscp value for inbound packets (DSCP Value for the clear traffic marking)

Type: number

Range: 1-63

ip-addr

Description

Type: string

Format: ipv4-address

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}*

ipv6-addr

Description

Type: string

Format: ipv6-address

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

operational-mode

Description 'protection': Protection mode; 'bypass': Bypass mode;

Type: string

Supported Values: protection, bypass

Default: protection

outbound-forward-dscp

Description To set dscp value for outbound

Type: number

Range: 1-63

pattern-recognition-hw-filter-enable

Description to enable pattern recognition hardware filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition-sensitivity

Description 'high': High sensitive pattern recognition; 'medium': Medium sensitive pattern recognition; 'low': Low sensitive pattern recognition;

Type: string

Supported Values: high, medium, low

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}*

reporting-disabled

Description Disable Reporting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Type: List

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow

Description: sflow is a **JSON Block**. Please see below for *dst_entry-list_sflow*

Type: Object

source-nat-pool

Description Configure source NAT

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-dst-pair

Description: src-dst-pair is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair*

src-dst-pair-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}*

src-dst-pair-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}*

src-dst-pair-settings-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}*

src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}*

src-port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}*

subnet-ip-addr

Description IP Subnet

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description IPV6 Subnet

Type: string

Format: ipv6-address-plen

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_template*

Type: Object

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *dst_entry-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description: capture-config is a **JSON Block**. Please see below for *dst_entry-list_port-list_capture-config*

Type: Object

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detection-enable

Description Enable ddos detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-cache

Description DNS Cache Instance

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/dns-cache*

enable-top-k

Description Enable ddos top-k entries

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *dst_entry-list_port-list_glid-exceed-action*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *dst_entry-list_port-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *dst_entry-list_port-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *dst_entry-list_port-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind*

port-num

Description Port Number

Type: number

Range: 0-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *dst_entry-list_port-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow

Description: sflow is a **JSON Block**. Please see below for *dst_entry-list_port-list_sflow*

Type: Object

signature-extraction

Description: signature-extraction is a **JSON Block**. Please see below for *dst_entry-list_port-list_signature-extraction*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/signature-extraction*

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_port-list_template*

Type: Object

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *dst_entry-list_port-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-list_signature-extraction

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

manual-mode

Description Enable manual mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_port-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *dst_entry-list_port-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

dst_entry-list_port-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

dst_entry-list_port-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min;

‘ddet_ind_rst_rate_max’: TCP RST Rate Max; ‘ddet_ind_small_window_ack_rate_current’: TCP Small Window ACK Rate Current; ‘ddet_ind_small_window_ack_rate_min’: TCP Small Window ACK Rate Min; ‘ddet_ind_small_window_ack_rate_max’: TCP Small Window ACK Rate Max; ‘ddet_ind_empty_ack_rate_current’: TCP Empty ACK Rate Current; ‘ddet_ind_empty_ack_rate_min’: TCP Empty ACK Rate Min; ‘ddet_ind_empty_ack_rate_max’: TCP Empty ACK Rate Max; ‘ddet_ind_small_payload_rate_current’: TCP Small Payload Rate Current; ‘ddet_ind_small_payload_rate_min’: TCP Small Payload Rate Min; ‘ddet_ind_small_payload_rate_max’: TCP Small Payload Rate Max; ‘ddet_ind_pkt_drop_ratio_current’: Pkt Drop / Pkt Rcvd Current; ‘ddet_ind_pkt_drop_ratio_min’: Pkt Drop / Pkt Rcvd Min; ‘ddet_ind_pkt_drop_ratio_max’: Pkt Drop / Pkt Rcvd Max; ‘ddet_ind_inb_per_outb_current’: Bytes-to / Bytes-from Current; ‘ddet_ind_inb_per_outb_min’: Bytes-to / Bytes-from Min; ‘ddet_ind_inb_per_outb_max’: Bytes-to / Bytes-from Max; ‘ddet_ind_syn_per_fin_rate_current’: TCP SYN Rate / FIN Rate Current; ‘ddet_ind_syn_per_fin_rate_min’: TCP SYN Rate / FIN Rate Min; ‘ddet_ind_syn_per_fin_rate_max’: TCP SYN Rate / FIN Rate Max; ‘ddet_ind_conn_miss_rate_current’: TCP Session Miss Rate Current; ‘ddet_ind_conn_miss_rate_min’: TCP Session Miss Rate Min; ‘ddet_ind_conn_miss_rate_max’: TCP Session Miss Rate Max; ‘ddet_ind_concurrent_conns_current’: TCP/UDP Concurrent Sessions Current; ‘ddet_ind_concurrent_conns_min’: TCP/UDP Concurrent Sessions Min; ‘ddet_ind_concurrent_conns_max’: TCP/UDP Concurrent Sessions Max; ‘ddet_ind_data_cpu_util_current’: Data CPU Utilization Current; ‘ddet_ind_data_cpu_util_min’: Data CPU Utilization Min; ‘ddet_ind_data_cpu_util_max’: Data CPU Utilization Max; ‘ddet_ind_outside_intf_util_current’: Outside Interface Utilization Current; ‘ddet_ind_outside_intf_util_min’: Outside Interface Utilization Min; ‘ddet_ind_outside_intf_util_max’: Outside Interface Utilization Max; ‘ddet_ind_frag_rate_current’: Frag Pkt Rate Current; ‘ddet_ind_frag_rate_min’: Frag Pkt Rate Min; ‘ddet_ind_frag_rate_max’: Frag Pkt Rate Max; ‘ddet_ind_bit_rate_current’: Bit Rate Current; ‘ddet_ind_bit_rate_min’: Bit Rate Min; ‘ddet_ind_bit_rate_max’: Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min,

ddet_ind_bit_rate_max

dst_entry-list_port-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-list_sflow

Specification	Value
Type	*object*

polling

Description: polling is a **JSON Block**. Please see below for *dst_entry-list_port-list_sflow_polling*

Type: Object

dst_entry-list_port-list_sflow_polling

Specification	Value
Type	*object*

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *dst_entry-list_port-list_sflow_polling_sflow-tcp*

Type: Object

dst_entry-list_port-list_sflow_polling_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_entry-list_port-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_capture-config-list

Specification	Value
Type	*list*
Block object keys	

mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dummy-name

Description 'configuration': Configure src dst dynamic entry count overflow policy;

Type: string

Supported Values: configuration

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *dst_entry-list_dynamic-entry-overflow-policy-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_dynamic-entry-overflow-policy-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_dynamic-entry-overflow-policy-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_dynamic-entry-overflow-policy-list_app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_dynamic-entry-overflow-policy-list_app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_dynamic-entry-overflow-policy-list_app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_dynamic-entry-overflow-policy-list_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_dynamic-entry-overflow-policy-list_l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_dynamic-entry-overflow-policy-list_l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_dynamic-entry-overflow-policy-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_entry-list_port-range-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description: capture-config is a **JSON Block**. Please see below for *dst_entry-list_port-range-list_capture-config*

Type: Object

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detection-enable

Description Enable ddos detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k entries

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *dst_entry-list_port-range-list_glid-exceed-action*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *dst_entry-list_port-range-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *dst_entry-list_port-range-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *dst_entry-list_port-range-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *dst_entry-list_port-range-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow

Description: sflow is a **JSON Block**. Please see below for *dst_entry-list_port-range-list_sflow*

Type: Object

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_port-range-list_template*

Type: Object

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *dst_entry-list_port-range-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-range-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-range-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_port-range-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *dst_entry-list_port-range-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

dst_entry-list_port-range-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

dst_entry-list_port-range-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-range-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-range-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max':

TCP Small Window ACK Rate Max; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max

dst_entry-list_port-range-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-range-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_port-range-list_sflow

Specification	Value
Type	*object*

polling

Description: polling is a **JSON Block**. Please see below for *dst_entry-list_port-range-list_sflow_polling*

Type: Object

dst_entry-list_port-range-list_sflow_polling

Specification	Value
Type	*object*

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *dst_entry-list_port-range-list_sflow_polling_sflow-tcp*

Type: Object

dst_entry-list_port-range-list_sflow_polling_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_entry-list_port-range-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_hw-blacklist-blocking

Specification	Value
Type	*object*

dst-enable

Description Enable Dst side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-enable

Description Enable Src side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-class-list-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst/{protocol}*

cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}*

class-list-name

Description Class-list name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-class-list-list_exceed-log-cfg*

Type: Object

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-class-list-list_cid-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid/{protocol}*

cid-num

Description Class-list id

Type: number

Range: 1-32

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-class-list-list_cid-list_exceed-log-cfg*

Type: Object

l4-type-src-dst-cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-class-list-list_cid-list_app-type-src-dst-cid-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-class-list-list_cid-list_app-type-src-dst-cid-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-class-list-list_cid-list_app-type-src-dst-cid-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-class-list-list_cid-list_l4-type-src-dst-cid-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-class-list-list_cid-list_l4-type-src-dst-cid-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-class-list-list_cid-list_l4-type-src-dst-cid-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-class-list-list_cid-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_entry-list_src-dst-pair-class-list-list_app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-class-list-list_app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-class-list-list_app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-class-list-list_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-class-list-list_l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-class-list-list_l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-class-list-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_entry-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *dst_entry-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

dst_entry-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

dst_entry-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detection-enable

Description Enable ddos detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-syn-auth

Description Disable TCP SYN Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-port-match

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

enable-top-k

Description Enable ddos top-k entries

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *dst_entry-list_l4-type-list_glid-exceed-action*

Type: Object

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow

Type: number

Range: 1-6

max-rexmit-syn-per-flow-exceed-action

Description 'drop': Drop the packet; 'black-list': Add the source IP into black list;

Type: string

Supported Values: drop, black-list

port-ind

Description: port-ind is a **JSON Block**. Please see below for *dst_entry-list_l4-type-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *dst_entry-list_l4-type-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking*

protocol

Description 'tcp': L4-Type TCP; 'udp': L4-Type UDP; 'icmp': L4-Type ICMP; 'other': L4-Type OTHER;

Type: string

Supported Values: tcp, udp, icmp, other

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-client

Description Send reset to client when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-server

Description Send reset to server when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_l4-type-list_template*

Type: Object

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *dst_entry-list_l4-type-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources*

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *dst_entry-list_l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *dst_entry-list_l4-type-list_tunnel-rate-limit*

Type: Object

undefined-port-hit-statistics

Description: undefined-port-hit-statistics is a **JSON Block**. Please see below for *dst_entry-list_l4-type-list_undefined-port-hit-statistics*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_l4-type-list_undefined-port-hit-statistics

Specification	Value
Type	*object*

reset-interval

Description Configure port scanning counter reset interval (minutes), Default 60 mins

Type: number

Range: 1-64000

Default: 60

undefined-port-hit-statistics

Description Enable port scanning statistics

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_entry-list_l4-type-list_template

Specification	Value
Type	*object*

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

dst_entry-list_l4-type-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *dst_entry-list_l4-type-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

dst_entry-list_l4-type-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

dst_entry-list_l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

dst_entry-list_l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

dst_entry-list_l4-type-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_l4-type-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session

Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max

dst_entry-list_l4-type-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_entry-list_l4-type-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-settings-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

all-types

Description 'all-types': Settings for all types (default or class-list);

Type: string

Supported Values: all-types

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for DST entry or each class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst/{protocol}*

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry

Type: number

Range: 0-2147483647

src-prefix-len

Description Specify src prefix length for IPv6 (default: not set)

Type: number

Range: 32-127

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-settings-list_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry

Type: number

Range: 0-2147483647

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-port-range-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'udp': UDP Port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

src-port-range-end

Description Src Port-Range End Port Number

Type: number

Range: 2-65535

src-port-range-start

Description Src Port-Range Start Port Number

Type: number

Range: 1-65535

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-port-range-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-port-range-list_template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

esp-inspect

Description: esp-inspect is a **JSON Block**. Please see below for *dst_entry-list_ip-proto-list_esp-inspect*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *dst_entry-list_ip-proto-list_glid-exceed-action*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

port-num

Description Protocol Number

Type: number

Range: 0-255

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_ip-proto-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_ip-proto-list_esp-inspect

Specification	Value
Type	*object*

auth-algorithm

Description 'AUTH_NULL': No Integrity Check Value; 'HMAC-SHA-1-96': 96 bit Auth Algo; 'HMAC-SHA-256-96': 96 bit Auth Algo; 'HMAC-SHA-256-128': 128 bit Auth Algo; 'HMAC-SHA-384-192': 192 bit Auth Algo; 'HMAC-SHA-512-256': 256 bit Auth Algo; 'HMAC-MD5-96': 96 bit Auth Algo; 'MAC-RIPEMD-160-96': 96 bit Auth Algo;

Type: string

Supported Values: AUTH_NULL, HMAC-SHA-1-96, HMAC-SHA-256-96, HMAC-SHA-256-128, HMAC-SHA-384-192, HMAC-SHA-512-256, HMAC-MD5-96, MAC-RIPEMD-160-96

encrypt-algorithm

Description 'NULL': Null Encryption Algorithm;

Type: string

Supported Values: NULL

mode

Description 'transport': Transport mode;

Type: string

Supported Values: transport

dst_entry-list_ip-proto-list_template

Specification	Value
Type	*object*

other

Description DDOS other template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_ip-proto-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *dst_entry-list_ip-proto-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

dst_entry-list_ip-proto-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

dst_entry-list_src-port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

outbound-src-tracking

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-udp': DNS-UDP Port; 'dns-tcp': DNS-TCP Port; 'udp': UDP Port; 'tcp': TCP Port;

Type: string

Supported Values: dns-udp, dns-tcp, udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-port-list_template

Specification	Value
Type	*object*

src-dns

Description DDOS dns src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-high-frequency

Description Enable High frequency logging for non-event logs per entry

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-with-sflow

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

rate-limit

Description Rate limit per second per entry(Default : 1 per second)

Type: number

Range: 1-1000

Default: 1

dst_entry-list_sflow

Specification	Value
Type	*object*

collector

Type: List

polling

Description: polling is a **JSON Block**. Please see below for *dst_entry-list_sflow_polling*

Type: Object

dst_entry-list_sflow_collector

Specification	Value
Type	*list*
Block object keys	

sflow-name

Description Name of configured custom sFlow collector

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/sflow/collector/custom*

dst_entry-list_sflow_polling

Specification	Value
Type	*object*

sflow-http

Description Enable sFlow HTTP counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the total number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-layer-4

Description Enable sFlow Layer 4 counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the total num

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-packets

Description Enable sFlow packet-level counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the tota

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *dst_entry-list_sflow_polling_sflow-tcp*

Type: Object

sflow-undef-port-hit-stats

Description Enable sFlow undefined-port-hit-statistics polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-undef-port-hit-stats-brief

Description Enable sFlow undefined-port-hit-statistics polling in brief mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_entry-list_sflow_polling_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the total n

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the tota

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_entry-list_src-dst-pair

Specification	Value
Type	*object*

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default

Description Configure default

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair_template*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair_app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair_app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair_app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair_l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair_l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_entry-list_src-dst-pair-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Src-based-policy name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry under class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-overflow-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dummy-name

Description 'configuration': Configure src dst dynamic entry count overflow policy for class-list;

Type: string

Supported Values: configuration

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-overflow-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_l4-type-src-dst-overflow-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_l4-type-src-dst-overflow-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_l4-type-src-dst-overflow-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_app-type-src-dst-overflow-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_app-type-src-dst-overflow-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_app-type-src-dst-overflow-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_entry-list_src-dst-pair-policy-list_policy-class-list-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_entry-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'dst_tcp_any_exceed': TCP Dst L4-Type Rate: Total Exceeded; 'dst_tcp_pkt_rate_exceed': TCP Dst L4-Type Rate: Packet Exceeded; 'dst_tcp_conn_rate_exceed': TCP Dst L4-Type Rate: Conn Exceeded; 'dst_udp_any_exceed': UDP Dst L4-Type Rate: Total Exceeded; 'dst_udp_pkt_rate_exceed': UDP Dst L4-Type Rate: Packet Exceeded; 'dst_udp_conn_limit_exceed': UDP Dst L4-Type Limit: Conn Exceeded; 'dst_udp_conn_rate_exceed': UDP Dst L4-Type Rate: Conn Exceeded; 'dst_icmp_pkt_rate_exceed': ICMP Dst Rate: Packet Exceeded; 'dst_other_pkt_rate_exceed': OTHER Dst L4-Type Rate: Packet Exceeded; 'dst_other_frag_pkt_rate_exceed': OTHER Dst L4-Type Rate: Frag Exceeded; 'dst_port_pkt_rate_exceed': Port Rate: Packet Exceeded; 'dst_port_conn_limit_exceed': Port Limit: Conn Exceeded; 'dst_port_conn_rate_exceed': Port Rate: Conn Exceeded; 'dst_pkt_sent': Inbound: Packets Forwarded; 'dst_udp_pkt_sent': UDP Total Packets Forwarded; 'dst_tcp_pkt_sent': TCP Total Packets Forwarded; 'dst_icmp_pkt_sent': ICMP Total Packets Forwarded; 'dst_other_pkt_sent': OTHER Total Packets Forwarded; 'dst_tcp_conn_limit_exceed':

TCP Dst L4-Type Limit: Conn Exceeded; 'dst_tcp_pkt_rcvd': TCP Total Packets Received; 'dst_udp_pkt_rcvd': UDP Total Packets Received; 'dst_icmp_pkt_rcvd': ICMP Total Packets Received; 'dst_other_pkt_rcvd': OTHER Total Packets Received; 'dst_udp_filter_match': UDP Filter Match; 'dst_udp_filter_not_match': UDP Filter Not Matched on Pkt; 'dst_udp_filter_action_blacklist': UDP Filter Action Blacklist; 'dst_udp_filter_action_drop': UDP Filter Action Drop; 'dst_tcp_syn': TCP Total SYN Received; 'dst_tcp_syn_drop': TCP SYN Packets Dropped; 'dst_tcp_src_rate_drop': TCP Src Rate: Total Exceeded; 'dst_udp_src_rate_drop': UDP Src Rate: Total Exceeded; 'dst_icmp_src_rate_drop': ICMP Src Rate: Total Exceeded; 'dst_other_frag_src_rate_drop': OTHER Src Rate: Frag Exceeded; 'dst_other_src_rate_drop': OTHER Src Rate: Total Exceeded; 'dst_tcp_drop': TCP Total Packets Dropped; 'dst_udp_drop': UDP Total Packets Dropped; 'dst_icmp_drop': ICMP Total Packets Dropped; 'dst_frag_drop': Fragmented Packets Dropped; 'dst_other_drop': OTHER Total Packets Dropped; 'dst_tcp_auth': TCP Auth: SYN Cookie Sent; 'dst_udp_filter_action_default_pass': UDP Filter Action Default Pass; 'dst_tcp_filter_match': TCP Filter Match; 'dst_tcp_filter_not_match': TCP Filter Not Matched on Pkt; 'dst_tcp_filter_action_blacklist': TCP Filter Action Blacklist; 'dst_tcp_filter_action_drop': TCP Filter Action Drop; 'dst_tcp_filter_action_default_pass': TCP Filter Action Default Pass; 'dst_udp_filter_action_whitelist': UDP Filter Action WL; 'dst_over_limit_on': DST overlimit Trigger ON; 'dst_over_limit_off': DST overlimit Trigger OFF; 'dst_port_over_limit_on': DST port overlimit Trigger ON; 'dst_port_over_limit_off': DST port overlimit Trigger OFF; 'dst_over_limit_action': DST overlimit action; 'dst_port_over_limit_action': DST port overlimit action; 'scanning_detected_drop': Scanning Detected drop (deprecated); 'scanning_detected_blacklist': Scanning Detected blacklist (deprecated); 'dst_udp_kibit_rate_drop': UDP Dst L4-Type Rate: KiBit Exceeded; 'dst_tcp_kibit_rate_drop': TCP Dst L4-Type Rate: KiBit Exceeded; 'dst_icmp_kibit_rate_drop': ICMP Dst Rate: KiBit Exceeded; 'dst_other_kibit_rate_drop': OTHER Dst L4-Type Rate: KiBit Exceeded; 'dst_port_undef_drop': Dst Port Undefined Dropped; 'dst_port_bl': Dst Port Blacklist Packets Dropped; 'dst_src_port_bl': Dst Src-Port Blacklist Packets Dropped; 'dst_port_kbit_rate_exceed': Port Rate: KiBit Exceeded; 'dst_tcp_src_drop': TCP Src Packets Dropped; 'dst_udp_src_drop': UDP Src Packets Dropped; 'dst_icmp_src_drop': ICMP Src Packets Dropped; 'dst_other_src_drop': OTHER Src Packets Dropped; 'tcp_syn_rcvd': TCP Inbound SYN Received; 'tcp_syn_ack_rcvd': TCP SYN ACK Received; 'tcp_ack_rcvd': TCP ACK Received; 'tcp_fin_rcvd': TCP FIN Received; 'tcp_rst_rcvd': TCP RST Received; 'ingress_bytes': Inbound: Bytes Received; 'egress_bytes': Outbound: Bytes Received; 'ingress_packets': Inbound: Packets Received; 'egress_packets': Outbound: Packets Received; 'tcp_fwd_recv': TCP Inbound Packets Received; 'udp_fwd_recv': UDP Inbound Packets Received; 'icmp_fwd_recv': ICMP Inbound Packets Received; 'tcp_syn_cookie_fail': TCP Auth: SYN Cookie Failed; 'dst_tcp_session_created': TCP Sessions Created; 'dst_udp_session_created': UDP Sessions Created; 'dst_tcp_filter_action_whitelist': TCP Filter Action WL; 'dst_other_filter_match': OTHER Filter Match; 'dst_other_filter_not_match': OTHER Filter Not Matched on Pkt; 'dst_other_filter_action_blacklist': OTHER Filter Action Blacklist; 'dst_other_filter_action_drop': OTHER Filter Action Drop; 'dst_other_filter_action_whitelist': OTHER Filter Action WL; 'dst_other_filter_action_default_pass': OTHER Filter Action Default Pass; 'dst_blackhole_inject': Dst Blackhole Inject; 'dst_blackhole_withdraw': Dst Blackhole Withdraw; 'dst_tcp_out_of_seq_excd': TCP Out-Of-Seq Exceeded; 'dst_tcp_retransmit_excd': TCP Retransmit Exceeded; 'dst_tcp_zero_window_excd': TCP Zero-Window Exceeded; 'dst_tcp_conn_prate_excd': TCP Rate: Conn Pkt Exceeded; 'dst_tcp_action_on_ack_init': TCP Auth: ACK Retry Init; 'dst_tcp_action_on_ack_gap_drop': TCP Auth: ACK Retry Retry-Gap Dropped; 'dst_tcp_action_on_ack_fail': TCP Auth: ACK Retry Dropped; 'dst_tcp_action_on_ack_pass': TCP Auth: ACK Retry Passed; 'dst_tcp_action_on_syn_init': TCP Auth: SYN Retry Init; 'dst_tcp_action_on_syn_gap_drop': TCP Auth: SYN Retry-Gap Dropped; 'dst_tcp_action_on_syn_fail': TCP Auth: SYN Retry Dropped;

'dst_tcp_action_on_syn_pass': TCP Auth: SYN Retry Passed; 'udp_payload_too_small': UDP Payload Too Small; 'udp_payload_too_big': UDP Payload Too Large; 'dst_udp_conn_prate_excd': UDP Rate: Conn Pkt Exceeded; 'dst_udp_ntp_monlist_req': UDP NTP Monlist Request; 'dst_udp_ntp_monlist_resp': UDP NTP Monlist Response; 'dst_udp_wellknown_sport_drop': UDP SrcPort Wellknown; 'dst_udp_retry_init': UDP Auth: Retry Init; 'dst_udp_retry_pass': UDP Auth: Retry Passed; 'dst_tcp_bytes_drop': TCP Total Bytes Dropped; 'dst_udp_bytes_drop': UDP Total Bytes Dropped; 'dst_icmp_bytes_drop': ICMP Total Bytes Dropped; 'dst_other_bytes_drop': OTHER Total Bytes Dropped; 'dst_out_no_route': Dst IPv4/v6 Out No Route; 'outbound_bytes_sent': Outbound: Bytes Forwarded; 'outbound_pkt_drop': Outbound: Packets Dropped; 'outbound_bytes_drop': Outbound: Bytes Dropped; 'outbound_pkt_sent': Outbound: Packets Forwarded; 'inbound_bytes_sent': Inbound: Bytes Forwarded; 'inbound_bytes_drop': Inbound: Bytes Dropped; 'dst_src_port_pkt_rate_exceed': SrcPort Rate: Packet Exceeded; 'dst_src_port_kbit_rate_exceed': SrcPort Rate: KiBit Exceeded; 'dst_src_port_conn_limit_exceed': SrcPort Limit: Conn Exceeded; 'dst_src_port_conn_rate_exceed': SrcPort Rate: Conn Exceeded; 'dst_ip_proto_pkt_rate_exceed': IP-Proto Rate: Packet Exceeded; 'dst_ip_proto_kbit_rate_exceed': IP-Proto Rate: KiBit Exceeded; 'dst_tcp_port_any_exceed': TCP Port Rate: Total Exceed; 'dst_udp_port_any_exceed': UDP Port Rate: Total Exceed; 'dst_tcp_auth_pass': TCP Auth: SYN Auth Passed; 'dst_tcp_rst_cookie_fail': TCP Auth: RST Cookie Failed; 'dst_tcp_unauth_drop': TCP Auth: Unauth Dropped; 'src_tcp_syn_auth_fail': Src TCP Auth: SYN Auth Failed; 'src_tcp_syn_cookie_sent': Src TCP Auth: SYN Cookie Sent; 'src_tcp_syn_cookie_fail': Src TCP Auth: SYN Cookie Failed; 'src_tcp_rst_cookie_fail': Src TCP Auth: RST Cookie Failed; 'src_tcp_unauth_drop': Src TCP Auth: Unauth Dropped; 'src_tcp_action_on_syn_init': Src TCP Auth: SYN Retry Init;

Type: string

Supported Values: all, dst_tcp_any_exceed, dst_tcp_pkt_rate_exceed, dst_tcp_conn_rate_exceed, dst_udp_any_exceed, dst_udp_pkt_rate_exceed, dst_udp_conn_limit_exceed, dst_udp_conn_rate_exceed, dst_icmp_pkt_rate_exceed, dst_other_pkt_rate_exceed, dst_other_frag_pkt_rate_exceed, dst_port_pkt_rate_exceed, dst_port_conn_limit_exceed, dst_port_conn_rate_exceed, dst_pkt_sent, dst_udp_pkt_sent, dst_tcp_pkt_sent, dst_icmp_pkt_sent, dst_other_pkt_sent, dst_tcp_conn_limit_exceed, dst_tcp_pkt_rcvd, dst_udp_pkt_rcvd, dst_icmp_pkt_rcvd, dst_other_pkt_rcvd, dst_udp_filter_match, dst_udp_filter_not_match, dst_udp_filter_action_blacklist, dst_udp_filter_action_drop, dst_tcp_syn, dst_tcp_syn_drop, dst_tcp_src_rate_drop, dst_udp_src_rate_drop, dst_icmp_src_rate_drop, dst_other_frag_src_rate_drop, dst_other_src_rate_drop, dst_tcp_drop, dst_udp_drop, dst_icmp_drop, dst_frag_drop, dst_other_drop, dst_tcp_auth, dst_udp_filter_action_default_pass, dst_tcp_filter_match, dst_tcp_filter_not_match, dst_tcp_filter_action_blacklist, dst_tcp_filter_action_drop, dst_tcp_filter_action_default_pass, dst_udp_filter_action_whitelist, dst_over_limit_on, dst_over_limit_off, dst_port_over_limit_on, dst_port_over_limit_off, dst_over_limit_action, dst_port_over_limit_action, scanning_detected_drop, scanning_detected_blacklist, dst_udp_kibit_rate_drop, dst_tcp_kibit_rate_drop, dst_icmp_kibit_rate_drop, dst_other_kibit_rate_drop, dst_port_undef_drop, dst_port_bl, dst_src_port_bl, dst_port_kbit_rate_exceed, dst_tcp_src_drop, dst_udp_src_drop, dst_icmp_src_drop, dst_other_src_drop, tcp_syn_rcvd, tcp_syn_ack_rcvd, tcp_ack_rcvd, tcp_fin_rcvd, tcp_rst_rcvd, ingress_bytes, egress_bytes, ingress_packets, egress_packets, tcp_fwd_recv, udp_fwd_recv, icmp_fwd_recv, tcp_syn_cookie_fail, dst_tcp_session_created, dst_udp_session_created, dst_tcp_filter_action_whitelist, dst_other_filter_match, dst_other_filter_not_match, dst_other_filter_action_blacklist, dst_other_filter_action_drop, dst_other_filter_action_whitelist, dst_other_filter_action_default_pass, dst_blackhole_inject, dst_blackhole_withdraw, dst_tcp_out_of_seq_excd, dst_tcp_retransmit_excd, dst_tcp_zero_window_excd, dst_tcp_conn_prate_excd,

dst_tcp_action_on_ack_init, dst_tcp_action_on_ack_gap_drop, dst_tcp_action_on_ack_fail, dst_tcp_action_on_ack_pass, dst_tcp_action_on_syn_init, dst_tcp_action_on_syn_gap_drop, dst_tcp_action_on_syn_fail, dst_tcp_action_on_syn_pass, udp_payload_too_small, udp_payload_too_big, dst_udp_conn_prate_excd, dst_udp_ntp_monlist_req, dst_udp_ntp_monlist_resp, dst_udp_wellknown_sport_drop, dst_udp_retry_init, dst_udp_retry_pass, dst_tcp_bytes_drop, dst_udp_bytes_drop, dst_icmp_bytes_drop, dst_other_bytes_drop, dst_out_no_route, outbound_bytes_sent, outbound_pkt_drop, outbound_bytes_drop, outbound_pkt_sent, inbound_bytes_sent, inbound_bytes_drop, dst_src_port_pkt_rate_exceed, dst_src_port_kbit_rate_exceed, dst_src_port_conn_limit_exceed, dst_src_port_conn_rate_exceed, dst_ip_proto_pkt_rate_exceed, dst_ip_proto_kbit_rate_exceed, dst_tcp_port_any_exceed, dst_udp_port_any_exceed, dst_tcp_auth_pass, dst_tcp_rst_cookie_fail, dst_tcp_unauth_drop, src_tcp_syn_auth_fail, src_tcp_syn_cookie_sent, src_tcp_syn_cookie_fail, src_tcp_rst_cookie_fail, src_tcp_unauth_drop, src_tcp_action_on_syn_init

counters2

Description 'src_tcp_action_on_syn_gap_drop': Src TCP Auth: SYN Retry-Gap Dropped; 'src_tcp_action_on_syn_fail': Src TCP Auth: SYN Retry Dropped; 'src_tcp_action_on_ack_init': Src TCP Auth: ACK Retry Init; 'src_tcp_action_on_ack_gap_drop': Src TCP Auth: ACK Retry Retry-Gap Dropped; 'src_tcp_action_on_ack_fail': Src TCP Auth: ACK Retry Dropped; 'src_tcp_out_of_seq_excd': Src TCP Out-Of-Seq Exceeded; 'src_tcp_retransmit_excd': Src TCP Retransmit Exceeded; 'src_tcp_zero_window_excd': Src TCP Zero-Window Exceeded; 'src_tcp_conn_prate_excd': Src TCP Rate: Conn Pkt Exceeded; 'src_udp_min_payload': Src UDP Payload Too Small; 'src_udp_max_payload': Src UDP Payload Too Large; 'src_udp_conn_prate_excd': Src UDP Rate: Conn Pkt Exceeded; 'src_udp_ntp_monlist_req': Src UDP NTP Monlist Request; 'src_udp_ntp_monlist_resp': Src UDP NTP Monlist Response; 'src_udp_wellknown_sport_drop': Src UDP SrcPort Wellknown; 'src_udp_retry_init': Src UDP Auth: Retry Init; 'dst_udp_retry_gap_drop': UDP Auth: Retry-Gap Dropped; 'dst_udp_retry_fail': UDP Auth: Retry Timeout; 'dst_tcp_session_aged': TCP Sessions Aged; 'dst_udp_session_aged': UDP Sessions Aged; 'dst_tcp_conn_close': TCP Connections Closed; 'dst_tcp_conn_close_half_open': TCP Half Open Connections Closed; 'dst_l4_tcp_auth': TCP Dst L4-Type Auth: SYN Cookie Sent; 'tcp_l4_syn_cookie_fail': TCP Dst L4-Type Auth: SYN Cookie Failed; 'tcp_l4_rst_cookie_fail': TCP Dst L4-Type Auth: RST Cookie Failed; 'tcp_l4_unauth_drop': TCP Dst L4-Type Auth: Unauth Dropped; 'dst_drop_frag_pkt': Dst Fragmented Packets Dropped; 'src_tcp_filter_action_blacklist': Src TCP Filter Action Blacklist; 'src_tcp_filter_action_whitelist': Src TCP Filter Action WL; 'src_tcp_filter_action_drop': Src TCP Filter Action Drop; 'src_tcp_filter_action_default_pass': Src TCP Filter Action Default Pass; 'src_udp_filter_action_blacklist': Src UDP Filter Action Blacklist; 'src_udp_filter_action_whitelist': Src UDP Filter Action WL; 'src_udp_filter_action_drop': Src UDP Filter Action Drop; 'src_udp_filter_action_default_pass': Src UDP Filter Action Default Pass; 'src_other_filter_action_blacklist': Src OTHER Filter Action Blacklist; 'src_other_filter_action_whitelist': Src OTHER Filter Action WL; 'src_other_filter_action_drop': Src OTHER Filter Action Drop; 'src_other_filter_action_default_pass': Src OTHER Filter Action Default Pass; 'tcp_invalid_syn': TCP Invalid SYN Received; 'dst_tcp_conn_close_w_rst': TCP RST Connections Closed; 'dst_tcp_conn_close_w_fin': TCP FIN Connections Closed; 'dst_tcp_conn_close_w_idle': TCP Idle Connections Closed; 'dst_tcp_conn_create_from_syn': TCP Connections Created From SYN; 'dst_tcp_conn_create_from_ack': TCP Connections Created From ACK; 'src_frag_drop': Src Fragmented Packets Dropped; 'dst_l4_tcp_blacklist_drop': Dst L4-type TCP Blacklist Dropped; 'dst_l4_udp_blacklist_drop': Dst L4-type UDP Blacklist Dropped; 'dst_l4_icmp_blacklist_drop': Dst L4-

type ICMP Blacklist Dropped; 'dst_l4_other_blacklist_drop': Dst L4-type OTHER Blacklist Dropped; 'src_l4_tcp_blacklist_drop': Src L4-type TCP Blacklist Dropped; 'src_l4_udp_blacklist_drop': Src L4-type UDP Blacklist Dropped; 'src_l4_icmp_blacklist_drop': Src L4-type ICMP Blacklist Dropped; 'src_l4_other_blacklist_drop': Src L4-type OTHER Blacklist Dropped; 'drop_frag_timeout_drop': Fragment Reassemble Timeout Drop; 'dst_port_kbit_rate_exceed_pkt': Port Rate: KiBit Pkt Exceeded; 'dst_tcp_bytes_rcv': TCP Total Bytes Received; 'dst_udp_bytes_rcv': UDP Total Bytes Received; 'dst_icmp_bytes_rcv': ICMP Total Bytes Received; 'dst_other_bytes_rcv': OTHER Total Bytes Received; 'dst_tcp_bytes_sent': TCP Total Bytes Forwarded; 'dst_udp_bytes_sent': UDP Total Bytes Forwarded; 'dst_icmp_bytes_sent': ICMP Total Bytes Forwarded; 'dst_other_bytes_sent': OTHER Total Bytes Forwarded; 'dst_udp_auth_drop': UDP Auth: Dropped; 'dst_tcp_auth_drop': TCP Auth: Dropped; 'dst_tcp_auth_resp': TCP Auth: Responded; 'inbound_pkt_drop': Inbound: Packets Dropped; 'dst_entry_pkt_rate_exceed': Entry Rate: Packet Exceeded; 'dst_entry_kbit_rate_exceed': Entry Rate: KiBit Exceeded; 'dst_entry_conn_limit_exceed': Entry Limit: Conn Exceeded; 'dst_entry_conn_rate_exceed': Entry Rate: Conn Exceeded; 'dst_entry_frag_pkt_rate_exceed': Entry Rate: Frag Packet Exceeded; 'dst_icmp_any_exceed': ICMP Rate: Total Exceed; 'dst_other_any_exceed': OTHER Rate: Total Exceed; 'src_dst_pair_entry_total': Src-Dst Pair Entry Total Count; 'src_dst_pair_entry_udp': Src-Dst Pair Entry UDP Count; 'src_dst_pair_entry_tcp': Src-Dst Pair Entry TCP Count; 'src_dst_pair_entry_icmp': Src-Dst Pair Entry ICMP Count; 'src_dst_pair_entry_other': Src-Dst Pair Entry OTHER Count; 'dst_clist_overflow_policy_at_learning': Dst Src-Based Overflow Policy Hit; 'tcp_rexmit_syn_limit_drop': TCP SYN Retransmit Exceeded Drop; 'tcp_rexmit_syn_limit_bl': TCP SYN Retransmit Exceeded Blacklist; 'dst_tcp_wellknown_sport_drop': TCP SrcPort Wellknown; 'src_tcp_wellknown_sport_drop': Src TCP SrcPort Wellknown; 'dst_frag_rcvd': Fragmented Packets Received; 'no_policy_class_list_match': No Policy Class-list Match; 'src_udp_retry_gap_drop': Src UDP Auth: Retry-Gap Dropped; 'dst_entry_kbit_rate_exceed_count': Entry Rate: KiBit Exceeded Count; 'dst_port_undef_hit': Dst Port Undefined Hit; 'dst_tcp_action_on_ack_timeout': TCP Auth: ACK Retry Timeout; 'dst_tcp_action_on_ack_reset': TCP Auth: ACK Retry Timeout Reset; 'dst_tcp_action_on_ack_blacklist': TCP Auth: ACK Retry Timeout Blacklisted; 'src_tcp_action_on_ack_timeout': Src TCP Auth: ACK Retry Timeout; 'src_tcp_action_on_ack_reset': Src TCP Auth: ACK Retry Timeout Reset; 'src_tcp_action_on_ack_blacklist': Src TCP Auth: ACK Retry Timeout Blacklisted; 'dst_tcp_action_on_syn_timeout': TCP Auth: SYN Retry Timeout; 'dst_tcp_action_on_syn_reset': TCP Auth: SYN Retry Timeout Reset; 'dst_tcp_action_on_syn_blacklist': TCP Auth: SYN Retry Timeout Blacklisted; 'src_tcp_action_on_syn_timeout': Src TCP Auth: SYN Retry Timeout; 'src_tcp_action_on_syn_reset': Src TCP Auth: SYN Retry Timeout Reset; 'src_tcp_action_on_syn_blacklist': Src TCP Auth: SYN Retry Timeout Blacklisted; 'dst_udp_frag_pkt_rate_exceed': UDP Dst L4-Type Rate: Frag Exceeded; 'dst_udp_frag_src_rate_drop': UDP Src Rate: Frag Exceeded; 'dst_tcp_frag_pkt_rate_exceed': TCP Dst L4-Type Rate: Frag Exceeded; 'dst_tcp_frag_src_rate_drop': TCP Src Rate: Frag Exceeded; 'dst_icmp_frag_pkt_rate_exceed': ICMP Dst L4-Type Rate: Frag Exceeded; 'dst_icmp_frag_src_rate_drop': ICMP Src Rate: Frag Exceeded; 'sflow_internal_samples_packed': Sflow Internal Samples Packed; 'sflow_external_samples_packed': Sflow External Samples Packed; 'sflow_internal_packets_sent': Sflow Internal Packets Sent; 'sflow_external_packets_sent': Sflow External Packets Sent; 'dns_outbound_total_query': DNS Outbound Total Query; 'dns_outbound_query_malformed': DNS Outbound Query Malformed; 'dns_outbound_query_resp_chk_failed': DNS Outbound Query Resp Check Failed;

'dns_outbound_query_resp_chk_blacklisted': DNS Outbound Query Resp Check Blacklisted; 'dns_outbound_query_resp_chk_refused_sent': DNS Outbound Query Resp Check REFUSED Sent; 'dns_outbound_query_resp_chk_reset_sent': DNS Outbound Query Resp Check RESET Sent; 'dns_outbound_query_resp_chk_no_resp_sent': DNS Outbound Query Resp Check No Response Sent; 'dns_outbound_query_resp_size_exceed': DNS Outbound Query Response Size Exceed; 'dns_outbound_query_sess_timed_out': DNS Outbound Query Session Timed Out; 'dst_exceed_action_tunnel': Entry Exceed Action: Tunnel; 'src_udp_auth_timeout': Src UDP Auth: Retry Timeout; 'src_udp_retry_pass': Src UDP Retry Passed;

Type: string

Supported Values: src_tcp_action_on_syn_gap_drop, src_tcp_action_on_syn_fail, src_tcp_action_on_ack_init, src_tcp_action_on_ack_gap_drop, src_tcp_action_on_ack_fail, src_tcp_out_of_seq_excd, src_tcp_retransmit_excd, src_tcp_zero_window_excd, src_tcp_conn_prate_excd, src_udp_min_payload, src_udp_max_payload, src_udp_conn_prate_excd, src_udp_ntp_monlist_req, src_udp_ntp_monlist_resp, src_udp_wellknown_sport_drop, src_udp_retry_init, dst_udp_retry_gap_drop, dst_udp_retry_fail, dst_tcp_session_aged, dst_udp_session_aged, dst_tcp_conn_close, dst_tcp_conn_close_half_open, dst_l4_tcp_auth, tcp_l4_syn_cookie_fail, tcp_l4_rst_cookie_fail, tcp_l4_unauth_drop, dst_drop_frag_pkt, src_tcp_filter_action_blacklist, src_tcp_filter_action_whitelist, src_tcp_filter_action_drop, src_tcp_filter_action_default_pass, src_udp_filter_action_blacklist, src_udp_filter_action_whitelist, src_udp_filter_action_drop, src_udp_filter_action_default_pass, src_other_filter_action_blacklist, src_other_filter_action_whitelist, src_other_filter_action_drop, src_other_filter_action_default_pass, tcp_invalid_syn, dst_tcp_conn_close_w_rst, dst_tcp_conn_close_w_fin, dst_tcp_conn_close_w_idle, dst_tcp_conn_create_from_syn, dst_tcp_conn_create_from_ack, src_frag_drop, dst_l4_tcp_blacklist_drop, dst_l4_udp_blacklist_drop, dst_l4_icmp_blacklist_drop, dst_l4_other_blacklist_drop, src_l4_tcp_blacklist_drop, src_l4_udp_blacklist_drop, src_l4_icmp_blacklist_drop, src_l4_other_blacklist_drop, drop_frag_timeout_drop, dst_port_kbit_rate_exceed_pkt, dst_tcp_bytes_rcv, dst_udp_bytes_rcv, dst_icmp_bytes_rcv, dst_other_bytes_rcv, dst_tcp_bytes_sent, dst_udp_bytes_sent, dst_icmp_bytes_sent, dst_other_bytes_sent, dst_udp_auth_drop, dst_tcp_auth_drop, dst_tcp_auth_resp, inbound_pkt_drop, dst_entry_pkt_rate_exceed, dst_entry_kbit_rate_exceed, dst_entry_conn_limit_exceed, dst_entry_conn_rate_exceed, dst_entry_frag_pkt_rate_exceed, dst_icmp_any_exceed, dst_other_any_exceed, src_dst_pair_entry_total, src_dst_pair_entry_udp, src_dst_pair_entry_tcp, src_dst_pair_entry_icmp, src_dst_pair_entry_other, dst_clist_overflow_policy_at_learning, tcp_rexmit_syn_limit_drop, tcp_rexmit_syn_limit_bl, dst_tcp_wellknown_sport_drop, src_tcp_wellknown_sport_drop, dst_frag_rcvd, no_policy_class_list_match, src_udp_retry_gap_drop, dst_entry_kbit_rate_exceed_count, dst_port_undef_hit, dst_tcp_action_on_ack_timeout, dst_tcp_action_on_ack_reset, dst_tcp_action_on_ack_blacklist, src_tcp_action_on_ack_timeout, src_tcp_action_on_ack_reset, src_tcp_action_on_ack_blacklist, dst_tcp_action_on_syn_timeout, dst_tcp_action_on_syn_reset, dst_tcp_action_on_syn_blacklist, src_tcp_action_on_syn_timeout, src_tcp_action_on_syn_reset, src_tcp_action_on_syn_blacklist, dst_udp_frag_pkt_rate_exceed, dst_udp_frag_src_rate_drop, dst_tcp_frag_pkt_rate_exceed, dst_tcp_frag_src_rate_drop, dst_icmp_frag_pkt_rate_exceed, dst_icmp_frag_src_rate_drop, sflow_internal_samples_packed, sflow_external_samples_packed, sflow_internal_packets_sent, sflow_external_packets_sent, dns_outbound_total_query, dns_outbound_query_malformed, dns_outbound_query_resp_chk_failed, dns_outbound_query_resp_chk_blacklisted, dns_outbound_query_resp_chk_refused_sent, dns_outbound_query_resp_chk_reset_sent, dns_outbound_query_resp_chk_no_resp_sent,

dns_outbound_query_resp_size_exceed, dns_outbound_query_sess_timed_out, dst_exceed_action_tunnel, src_udp_auth_timeout, src_udp_retry_pass

counters3

Description 'dst_hw_drop_rule_insert': Dst Hardware Drop Rules Inserted; 'dst_hw_drop_rule_remove': Dst Hardware Drop Rules Removed; 'src_hw_drop_rule_insert': Src Hardware Drop Rules Inserted; 'src_hw_drop_rule_remove': Src Hardware Drop Rules Removed; 'prog_first_req_time_exceed': Req-Resp: First Request Time Exceed; 'prog_req_resp_time_exceed': Req-Resp: Request to Response Time Exceed; 'prog_request_len_exceed': Req-Resp: Request Length Exceed; 'prog_response_len_exceed': Req-Resp: Response Length Exceed; 'prog_resp_req_ratio_exceed': Req-Resp: Response to Request Ratio Exceed; 'prog_resp_req_time_exceed': Req-Resp: Response to Request Time Exceed; 'entry_sync_message_received': Entry Sync Message Received; 'entry_sync_message_sent': Entry Sync Message Sent; 'prog_conn_sent_exceed': Connection: Sent Exceed; 'prog_conn_rcvd_exceed': Connection: Received Exceed; 'prog_conn_time_exceed': Connection: Time Exceed; 'prog_conn_rcvd_sent_ratio_exceed': Connection: Reveived to Sent Ratio Exceed; 'prog_win_sent_exceed': Time Window: Sent Exceed; 'prog_win_rcvd_exceed': Time Window: Received Exceed; 'prog_win_rcvd_sent_ratio_exceed': Time Window: Received to Sent Exceed; 'prog_exceed_drop': Req-Resp: Violation Exceed Dropped; 'prog_exceed_bl': Req-Resp: Violation Exceed Blacklisted; 'prog_conn_exceed_drop': Connection: Violation Exceed Dropped; 'prog_conn_exceed_bl': Connection: Violation Exceed Blacklisted; 'prog_win_exceed_drop': Time Window: Violation Exceed Dropped; 'prog_win_exceed_bl': Time Window: Violation Exceed Blacklisted; 'dst_exceed_action_drop': Entry Exceed Action: Dropped; 'prog_conn_samples': Sample Collected: Connection; 'prog_req_samples': Sample Collected: Req-Resp; 'prog_win_samples': Sample Collected: Time Window;

Type: string

Supported Values: dst_hw_drop_rule_insert, dst_hw_drop_rule_remove, src_hw_drop_rule_insert, src_hw_drop_rule_remove, prog_first_req_time_exceed, prog_req_resp_time_exceed, prog_request_len_exceed, prog_response_len_exceed, prog_resp_pkt_rate_exceed, prog_resp_req_time_exceed, entry_sync_message_received, entry_sync_message_sent, prog_conn_sent_exceed, prog_conn_rcvd_exceed, prog_conn_time_exceed, prog_conn_rcvd_sent_ratio_exceed, prog_win_sent_exceed, prog_win_rcvd_exceed, prog_win_rcvd_sent_ratio_exceed, prog_exceed_drop, prog_exceed_bl, prog_conn_exceed_drop, prog_conn_exceed_bl, prog_win_exceed_drop, prog_win_exceed_bl, dst_exceed_action_drop, src_hw_drop, dst_tcp_auth_rst, dst_src_learn_overflow, tcp_fwd_sent, udp_fwd_sent, prog_query_exceed, prog_think_exceed, prog_conn_samples, prog_req_samples, prog_win_samples, prog_conn_samples_processed, prog_req_samples_processed, prog_win_samples_processed, tcp_invalid_synack

dst_entry-list_enable-top-k

Specification	Value
Type	*list*
Block object keys	

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-type

Description 'destination': Topk destination IP;

Type: string

Supported Values: destination

dst_entry-list_exceed-log-dep-cfg

Specification	Value
Type	*object*

exceed-log-enable

Description (Deprecated)Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-with-sflow-dep

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

default-address-type

Description 'ip': ip; 'ipv6': ipv6;

Type: string

Supported Values: ip, ipv6

drop-disable

Description Disable certain drops during packet processing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-disable-fwd-immediate

Description Immediately forward L4 drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *dst_dynamic-entry-overflow-policy-list_exceed-log-cfg*

Type: Object

exceed-log-dep-cfg

Description: exceed-log-dep-cfg is a **JSON Block**. Please see below for *dst_dynamic-entry-overflow-policy-list_exceed-log-dep-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

inbound-forward-dscp

Description To set dscp value for inbound packets (DSCP Value for the clear traffic marking)

Type: number

Range: 1-63

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/ip-proto/{port-num}*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

outbound-forward-dscp

Description To set dscp value for outbound

Type: number

Range: 1-63

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/port/{port-num}+{protocol}*

src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/src-port/{port-num}+{protocol}*

template

Description: template is a **JSON Block**. Please see below for *dst_dynamic-entry-overflow-policy-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_dynamic-entry-overflow-policy-list_port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-tcp': dns-tcp; 'dns-udp': dns-udp; 'http': http; 'tcp': tcp; 'udp': udp; 'ssl-l4': ssl-l4; 'sip-udp': sip-udp; 'sip-tcp': sip-tcp;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

template

Description: template is a **JSON Block**. Please see below for *dst_dynamic-entry-overflow-policy-list_port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_dynamic-entry-overflow-policy-list_port-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_dynamic-entry-overflow-policy-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_dynamic-entry-overflow-policy-list_ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Protocol Number

Type: number

Range: 0-255

template

Description: template is a **JSON Block**. Please see below for *dst_dynamic-entry-overflow-policy-list_ip-proto-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_dynamic-entry-overflow-policy-list_ip-proto-list_template

Specification	Value
Type	*object*

other

Description DDOS other template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_dynamic-entry-overflow-policy-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

with-sflow-sample

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_dynamic-entry-overflow-policy-list_exceed-log-dep-cfg

Specification	Value
Type	*object*

exceed-log-enable

Description (Deprecated)Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-with-sflow-dep

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_dynamic-entry-overflow-policy-list_src-port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'udp': udp; 'tcp': tcp;

Type: string

Supported Values: udp, tcp

template

Description: template is a **JSON Block**. Please see below for *dst_dynamic-entry-overflow-policy-list_src-port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_dynamic-entry-overflow-policy-list_src-port-list_template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_dynamic-entry-overflow-policy-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-port-match

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow. Exceed action set to Drop

Type: number

Range: 1-6

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-client

Description Send reset to client when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-server

Description Send reset to server when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *dst_dynamic-entry-overflow-policy-list_l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *dst_dynamic-entry-overflow-policy-list_l4-type-list_tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_dynamic-entry-overflow-policy-list_l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst_dynamic-entry-overflow-policy-list_l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

dst_dynamic-entry-overflow-policy-list_l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

dst_dynamic-entry

Specification	Value
Type	*object*

all-entries

Description: all-entries is a **JSON Block**. Please see below for *dst_dynamic-entry_all-entries*

Type: Object

Reference Object: */axapi/v3/ddos/dst/dynamic-entry/all-entries*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_dynamic-entry_all-entries

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_dynamic-entry_all-entries_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'dst_tcp_any_exceed': TCP Dst L4-Type Rate: Total Exceeded; 'dst_tcp_pkt_rate_exceed': TCP Dst L4-Type Rate: Packet Exceeded; 'dst_tcp_conn_rate_exceed': TCP Dst L4-Type Rate: Conn Exceeded; 'dst_udp_any_exceed': UDP Dst L4-Type Rate: Total Exceeded; 'dst_udp_pkt_rate_exceed': UDP Dst L4-Type Rate: Packet Exceeded; 'dst_udp_conn_limit_exceed': UDP Dst L4-Type Limit: Conn Exceeded; 'dst_udp_conn_rate_exceed': UDP Dst L4-Type Rate: Conn Exceeded; 'dst_icmp_pkt_rate_exceed': ICMP Dst Rate: Packet Exceeded; 'dst_other_pkt_rate_exceed': OTHER Dst L4-Type Rate: Packet Exceeded; 'dst_other_frag_pkt_rate_exceed': OTHER Dst L4-Type Rate: Frag Exceeded; 'dst_port_pkt_rate_exceed': Port Rate: Packet Exceeded; 'dst_port_conn_limit_exceed': Port Limit: Conn Exceeded; 'dst_port_conn_rate_exceed': Port Rate: Conn Exceeded; 'dst_pkt_sent': Inbound: Packets Forwarded; 'dst_udp_pkt_sent': UDP Total Packets Forwarded; 'dst_tcp_pkt_sent': TCP Total Packets Forwarded; 'dst_icmp_pkt_sent': ICMP Total Packets Forwarded; 'dst_other_pkt_sent': OTHER Total Packets Forwarded; 'dst_tcp_conn_limit_exceed': TCP Dst L4-Type Limit: Conn Exceeded; 'dst_tcp_pkt_rcvd': TCP Total Packets Received; 'dst_udp_pkt_rcvd': UDP Total Packets Received; 'dst_icmp_pkt_rcvd': ICMP Total Packets Received; 'dst_other_pkt_rcvd': OTHER Total Packets Received; 'dst_udp_filter_match': UDP Filter Match; 'dst_udp_filter_not_match': UDP Filter Not Matched on Pkt; 'dst_udp_filter_action_blacklist': UDP Filter Action Blacklist; 'dst_udp_filter_action_drop': UDP Filter Action Drop; 'dst_tcp_syn': TCP Total SYN Received; 'dst_tcp_syn_drop': TCP SYN Packets Dropped; 'dst_tcp_src_rate_drop': TCP Src Rate: Total Exceeded; 'dst_udp_src_rate_drop': UDP Src Rate: Total Exceeded; 'dst_icmp_src_rate_drop': ICMP Src Rate: Total Exceeded; 'dst_other_frag_src_rate_drop': OTHER Src Rate: Frag Exceeded; 'dst_other_src_rate_drop': OTHER Src Rate: Total Exceeded; 'dst_tcp_drop': TCP Total Packets Dropped; 'dst_udp_drop': UDP Total Packets Dropped; 'dst_icmp_drop': ICMP Total Packets Dropped; 'dst_frag_drop': Fragmented Packets Dropped; 'dst_other_drop': OTHER Total Packets Dropped; 'dst_tcp_auth': TCP Auth: SYN Cookie Sent; 'dst_udp_filter_action_default_pass': UDP Filter Action Default Pass; 'dst_tcp_filter_match': TCP Filter Match; 'dst_tcp_filter_not_match': TCP Filter Not Matched on Pkt; 'dst_tcp_filter_action_blacklist': TCP Filter Action Blacklist; 'dst_tcp_filter_action_drop': TCP Filter Action Drop; 'dst_tcp_filter_action_default_pass': TCP Filter Action Default Pass; 'dst_udp_filter_action_whitelist': UDP Filter Action WL; 'dst_over_limit_on': DST overlimit Trigger ON; 'dst_over_limit_off': DST overlimit Trigger OFF; 'dst_port_over_limit_on': DST port overlimit Trigger ON; 'dst_port_over_limit_off': DST port overlimit Trigger OFF; 'dst_over_limit_action': DST overlimit action; 'dst_port_over_limit_action': DST port overlimit action; 'scanning_detected_drop': Scanning Detected drop (deprecated); 'scanning_detected_blacklist': Scanning Detected blacklist (deprecated); 'dst_udp_kibit_rate_drop': UDP Dst L4-Type Rate: KiBit Exceeded; 'dst_tcp_kibit_rate_drop': TCP Dst L4-Type Rate: KiBit Exceeded; 'dst_icmp_kibit_rate_drop': ICMP Dst Rate: KiBit Exceeded; 'dst_other_kibit_rate_drop': OTHER Dst L4-Type Rate: KiBit Exceeded; 'dst_port_undef_drop': Dst Port Undefined Dropped; 'dst_port_bl': Dst Port Blacklist Packets Dropped; 'dst_src_port_bl': Dst Src-Port Blacklist Packets Dropped; 'dst_port_kbit_rate_exceed': Port Rate: KiBit Exceeded; 'dst_tcp_src_drop': TCP Src Packets Dropped; 'dst_udp_src_drop': UDP Src Packets Dropped; 'dst_icmp_src_drop': ICMP Src Packets Dropped; 'dst_other_src_drop': OTHER Src Packets Dropped; 'tcp_syn_rcvd': TCP Inbound SYN Received; 'tcp_syn_ack_rcvd': TCP SYN ACK Received; 'tcp_ack_rcvd': TCP ACK Received; 'tcp_fin_rcvd': TCP FIN Received; 'tcp_rst_rcvd': TCP RST Received; 'ingress_bytes': Inbound: Bytes Received; 'egress_bytes': Outbound: Bytes Received; 'ingress_packets': Inbound: Packets Received; 'egress_packets': Outbound: Packets Received; 'tcp_fwd_recv': TCP Inbound Packets Received; 'udp_fwd_recv': UDP Inbound Packets Received; 'icmp_fwd_recv': ICMP Inbound Packets Received; 'tcp_syn_cookie_fail': TCP Auth: SYN Cookie Failed; 'dst_tcp_session_created': TCP Sessions Created; 'dst_udp_session_created': UDP Sessions Created; 'dst_tcp_filter_action_whitelist': TCP Fil-

ter Action WL; 'dst_other_filter_match': OTHER Filter Match; 'dst_other_filter_not_match': OTHER Filter Not Matched on Pkt; 'dst_other_filter_action_blacklist': OTHER Filter Action Blacklist; 'dst_other_filter_action_drop': OTHER Filter Action Drop; 'dst_other_filter_action_whitelist': OTHER Filter Action WL; 'dst_other_filter_action_default_pass': OTHER Filter Action Default Pass; 'dst_blackhole_inject': Dst Blackhole Inject; 'dst_blackhole_withdraw': Dst Blackhole Withdraw; 'dst_tcp_out_of_seq_excd': TCP Out-Of-Seq Exceeded; 'dst_tcp_retransmit_excd': TCP Retransmit Exceeded; 'dst_tcp_zero_window_excd': TCP Zero-Window Exceeded; 'dst_tcp_conn_prate_excd': TCP Rate: Conn Pkt Exceeded; 'dst_tcp_action_on_ack_init': TCP Auth: ACK Retry Init; 'dst_tcp_action_on_ack_gap_drop': TCP Auth: ACK Retry Retry-Gap Dropped; 'dst_tcp_action_on_ack_fail': TCP Auth: ACK Retry Dropped; 'dst_tcp_action_on_ack_pass': TCP Auth: ACK Retry Passed; 'dst_tcp_action_on_syn_init': TCP Auth: SYN Retry Init; 'dst_tcp_action_on_syn_gap_drop': TCP Auth: SYN Retry-Gap Dropped; 'dst_tcp_action_on_syn_fail': TCP Auth: SYN Retry Dropped; 'dst_tcp_action_on_syn_pass': TCP Auth: SYN Retry Passed; 'udp_payload_too_small': UDP Payload Too Small; 'udp_payload_too_big': UDP Payload Too Large; 'dst_udp_conn_prate_excd': UDP Rate: Conn Pkt Exceeded; 'dst_udp_ntp_monlist_req': UDP NTP Monlist Request; 'dst_udp_ntp_monlist_resp': UDP NTP Monlist Response; 'dst_udp_wellknown_sport_drop': UDP SrcPort Wellknown; 'dst_udp_retry_init': UDP Auth: Retry Init; 'dst_udp_retry_pass': UDP Auth: Retry Passed; 'dst_tcp_bytes_drop': TCP Total Bytes Dropped; 'dst_udp_bytes_drop': UDP Total Bytes Dropped; 'dst_icmp_bytes_drop': ICMP Total Bytes Dropped; 'dst_other_bytes_drop': OTHER Total Bytes Dropped; 'dst_out_no_route': Dst IPv4/v6 Out No Route; 'outbound_bytes_sent': Outbound: Bytes Forwarded; 'outbound_pkt_drop': Outbound: Packets Dropped; 'outbound_bytes_drop': Outbound: Bytes Dropped; 'outbound_pkt_sent': Outbound: Packets Forwarded; 'inbound_bytes_sent': Inbound: Bytes Forwarded; 'inbound_bytes_drop': Inbound: Bytes Dropped; 'dst_src_port_pkt_rate_exceed': SrcPort Rate: Packet Exceeded; 'dst_src_port_kbit_rate_exceed': SrcPort Rate: KiBit Exceeded; 'dst_src_port_conn_limit_exceed': SrcPort Limit: Conn Exceeded; 'dst_src_port_conn_rate_exceed': SrcPort Rate: Conn Exceeded; 'dst_ip_proto_pkt_rate_exceed': IP-Proto Rate: Packet Exceeded; 'dst_ip_proto_kbit_rate_exceed': IP-Proto Rate: KiBit Exceeded; 'dst_tcp_port_any_exceed': TCP Port Rate: Total Exceed; 'dst_udp_port_any_exceed': UDP Port Rate: Total Exceed; 'dst_tcp_auth_pass': TCP Auth: SYN Auth Passed; 'dst_tcp_rst_cookie_fail': TCP Auth: RST Cookie Failed; 'dst_tcp_unauth_drop': TCP Auth: Unauth Dropped; 'src_tcp_syn_auth_fail': Src TCP Auth: SYN Auth Failed; 'src_tcp_syn_cookie_sent': Src TCP Auth: SYN Cookie Sent; 'src_tcp_syn_cookie_fail': Src TCP Auth: SYN Cookie Failed; 'src_tcp_rst_cookie_fail': Src TCP Auth: RST Cookie Failed; 'src_tcp_unauth_drop': Src TCP Auth: Unauth Dropped; 'src_tcp_action_on_syn_init': Src TCP Auth: SYN Retry Init;

Type: string

Supported Values: all, dst_tcp_any_exceed, dst_tcp_pkt_rate_exceed, dst_tcp_conn_rate_exceed, dst_udp_any_exceed, dst_udp_pkt_rate_exceed, dst_udp_conn_limit_exceed, dst_udp_conn_rate_exceed, dst_icmp_pkt_rate_exceed, dst_other_pkt_rate_exceed, dst_other_frag_pkt_rate_exceed, dst_port_pkt_rate_exceed, dst_port_conn_limit_exceed, dst_port_conn_rate_exceed, dst_pkt_sent, dst_udp_pkt_sent, dst_tcp_pkt_sent, dst_icmp_pkt_sent, dst_other_pkt_sent, dst_tcp_conn_limit_exceed, dst_tcp_pkt_rcvd, dst_udp_pkt_rcvd, dst_icmp_pkt_rcvd, dst_other_pkt_rcvd, dst_udp_filter_match, dst_udp_filter_not_match, dst_udp_filter_action_blacklist, dst_udp_filter_action_drop, dst_tcp_syn, dst_tcp_syn_drop, dst_tcp_src_rate_drop, dst_udp_src_rate_drop, dst_icmp_src_rate_drop, dst_other_frag_src_rate_drop, dst_other_src_rate_drop, dst_tcp_drop, dst_udp_drop, dst_icmp_drop, dst_frag_drop, dst_other_drop, dst_tcp_auth, dst_udp_filter_action_default_pass, dst_tcp_filter_match, dst_tcp_filter_not_match, dst_tcp_filter_action_blacklist, dst_tcp_filter_action_drop,

dst_tcp_filter_action_default_pass, dst_udp_filter_action_whitelist, dst_over_limit_on, dst_over_limit_off, dst_port_over_limit_on, dst_port_over_limit_off, dst_over_limit_action, dst_port_over_limit_action, scanning_detected_drop, scanning_detected_blacklist, dst_udp_kibit_rate_drop, dst_tcp_kibit_rate_drop, dst_icmp_kibit_rate_drop, dst_other_kibit_rate_drop, dst_port_undef_drop, dst_port_bl, dst_src_port_bl, dst_port_kbit_rate_exceed, dst_tcp_src_drop, dst_udp_src_drop, dst_icmp_src_drop, dst_other_src_drop, tcp_syn_rcvd, tcp_syn_ack_rcvd, tcp_ack_rcvd, tcp_fin_rcvd, tcp_rst_rcvd, ingress_bytes, egress_bytes, ingress_packets, egress_packets, tcp_fwd_recv, udp_fwd_recv, icmp_fwd_recv, tcp_syn_cookie_fail, dst_tcp_session_created, dst_udp_session_created, dst_tcp_filter_action_whitelist, dst_other_filter_match, dst_other_filter_not_match, dst_other_filter_action_blacklist, dst_other_filter_action_drop, dst_other_filter_action_whitelist, dst_other_filter_action_default_pass, dst_blackhole_inject, dst_blackhole_withdraw, dst_tcp_out_of_seq_excd, dst_tcp_retransmit_excd, dst_tcp_zero_window_excd, dst_tcp_conn_prate_excd, dst_tcp_action_on_ack_init, dst_tcp_action_on_ack_gap_drop, dst_tcp_action_on_ack_fail, dst_tcp_action_on_ack_pass, dst_tcp_action_on_syn_init, dst_tcp_action_on_syn_gap_drop, dst_tcp_action_on_syn_fail, dst_tcp_action_on_syn_pass, udp_payload_too_small, udp_payload_too_big, dst_udp_conn_prate_excd, dst_udp_ntp_monlist_req, dst_udp_ntp_monlist_resp, dst_udp_wellknown_sport_drop, dst_udp_retry_init, dst_udp_retry_pass, dst_tcp_bytes_drop, dst_udp_bytes_drop, dst_icmp_bytes_drop, dst_other_bytes_drop, dst_out_no_route, outbound_bytes_sent, outbound_pkt_drop, outbound_bytes_drop, outbound_pkt_sent, inbound_bytes_sent, inbound_bytes_drop, dst_src_port_pkt_rate_exceed, dst_src_port_kbit_rate_exceed, dst_src_port_conn_limit_exceed, dst_src_port_conn_rate_exceed, dst_ip_proto_pkt_rate_exceed, dst_ip_proto_kbit_rate_exceed, dst_tcp_port_any_exceed, dst_udp_port_any_exceed, dst_tcp_auth_pass, dst_tcp_rst_cookie_fail, dst_tcp_unauth_drop, src_tcp_syn_auth_fail, src_tcp_syn_cookie_sent, src_tcp_syn_cookie_fail, src_tcp_rst_cookie_fail, src_tcp_unauth_drop, src_tcp_action_on_syn_init

counters2

Description 'src_tcp_action_on_syn_gap_drop': Src TCP Auth: SYN Retry-Gap Dropped; 'src_tcp_action_on_syn_fail': Src TCP Auth: SYN Retry Dropped; 'src_tcp_action_on_ack_init': Src TCP Auth: ACK Retry Init; 'src_tcp_action_on_ack_gap_drop': Src TCP Auth: ACK Retry Retry-Gap Dropped; 'src_tcp_action_on_ack_fail': Src TCP Auth: ACK Retry Dropped; 'src_tcp_out_of_seq_excd': Src TCP Out-Of-Seq Exceeded; 'src_tcp_retransmit_excd': Src TCP Retransmit Exceeded; 'src_tcp_zero_window_excd': Src TCP Zero-Window Exceeded; 'src_tcp_conn_prate_excd': Src TCP Rate: Conn Pkt Exceeded; 'src_udp_min_payload': Src UDP Payload Too Small; 'src_udp_max_payload': Src UDP Payload Too Large; 'src_udp_conn_prate_excd': Src UDP Rate: Conn Pkt Exceeded; 'src_udp_ntp_monlist_req': Src UDP NTP Monlist Request; 'src_udp_ntp_monlist_resp': Src UDP NTP Monlist Response; 'src_udp_wellknown_sport_drop': Src UDP SrcPort Wellknown; 'src_udp_retry_init': Src UDP Auth: Retry Init; 'dst_udp_retry_gap_drop': UDP Auth: Retry-Gap Dropped; 'dst_udp_retry_fail': UDP P Sessions Aged; 'dst_tcp_session_aged': TCP Sessions Aged; 'dst_udp_session_aged': UDP Sessions Aged; 'dst_tcp_conn_close': TCP Connections Closed; 'dst_tcp_conn_close_half_open': TCP Half Open Connections Closed; 'dst_l4_tcp_auth': TCP Dst L4-Type Auth: SYN Cookie Sent; 'tcp_l4_syn_cookie_fail': TCP Dst L4-Type Auth: SYN Cookie Failed; 'tcp_l4_rst_cookie_fail': TCP Dst L4-Type Auth: RST Cookie Failed; 'tcp_l4_unauth_drop': TCP Dst L4-Type Auth: Unauth Dropped; 'dst_drop_frag_pkt': Dst Fragmented Packets Dropped; 'src_tcp_filter_action_blacklist': Src TCP Filter Action Blacklist; 'src_tcp_filter_action_whitelist': Src TCP Filter Action WL; 'src_tcp_filter_action_drop': Src TCP Filter Action Drop; 'src_tcp_filter_action_default_pass': Src TCP Filter Action Default Pass; 'src_udp_filter_action_blacklist': Src UDP Filter Action Blacklist;

'src_udp_filter_action_whitelist': Src UDP Filter Action WL; 'src_udp_filter_action_drop': Src UDP Filter Action Drop; 'src_udp_filter_action_default_pass': Src UDP Filter Action Default Pass; 'src_other_filter_action_blacklist': Src OTHER Filter Action Blacklist; 'src_other_filter_action_whitelist': Src OTHER Filter Action WL; 'src_other_filter_action_drop': Src OTHER Filter Action Drop; 'src_other_filter_action_default_pass': Src OTHER Filter Action Default Pass; 'tcp_invalid_syn': TCP Invalid SYN Received; 'dst_tcp_conn_close_w_rst': TCP RST Connections Closed; 'dst_tcp_conn_close_w_fin': TCP FIN Connections Closed; 'dst_tcp_conn_close_w_idle': TCP Idle Connections Closed; 'dst_tcp_conn_create_from_syn': TCP Connections Created From SYN; 'dst_tcp_conn_create_from_ack': TCP Connections Created From ACK; 'src_frag_drop': Src Fragmented Packets Dropped; 'dst_l4_tcp_blacklist_drop': Dst L4-type TCP Blacklist Dropped; 'dst_l4_udp_blacklist_drop': Dst L4-type UDP Blacklist Dropped; 'dst_l4_icmp_blacklist_drop': No Policy Class-list Match; 'dst_l4_other_blacklist_drop': Dst L4-type OTHER Blacklist Dropped; 'src_l4_tcp_blacklist_drop': Src L4-type TCP Blacklist Dropped; 'src_l4_udp_blacklist_drop': Src L4-type UDP Blacklist Dropped; 'src_l4_icmp_blacklist_drop': Src L4-type ICMP Blacklist Dropped; 'src_l4_other_blacklist_drop': Src L4-type OTHER Blacklist Dropped; 'drop_frag_timeout_drop': Fragment Reassemble Timeout Drop; 'dst_port_kbit_rate_exceed_pkt': Port Rate: KiBit Pkt Exceeded; 'dst_tcp_bytes_rcv': TCP Total Bytes Received; 'dst_udp_bytes_rcv': UDP Total Bytes Received; 'dst_icmp_bytes_rcv': ICMP Total Bytes Received; 'dst_other_bytes_rcv': OTHER Total Bytes Received; 'dst_tcp_bytes_sent': TCP Total Bytes Forwarded; 'dst_udp_bytes_sent': UDP Total Bytes Forwarded; 'dst_icmp_bytes_sent': ICMP Total Bytes Forwarded; 'dst_other_bytes_sent': OTHER Total Bytes Forwarded; 'dst_udp_auth_drop': UDP Auth: Dropped; 'dst_tcp_auth_drop': TCP Auth: Dropped; 'dst_tcp_auth_resp': TCP Auth: Responded; 'inbound_pkt_drop': Inbound: Packets Dropped; 'dst_entry_pkt_rate_exceed': Entry Rate: Packet Exceeded; 'dst_entry_kbit_rate_exceed': Entry Rate: KiBit Exceeded; 'dst_entry_conn_limit_exceed': Entry Limit: Conn Exceeded; 'dst_entry_conn_rate_exceed': Entry Rate: Conn Exceeded; 'dst_entry_frag_pkt_rate_exceed': Entry Rate: Frag Packet Exceeded; 'dst_icmp_any_exceed': ICMP Rate: Total Exceed; 'dst_other_any_exceed': OTHER Rate: Total Exceed; 'src_dst_pair_entry_total': Src-Dst Pair Entry Total Count; 'src_dst_pair_entry_udp': Src-Dst Pair Entry UDP Count; 'src_dst_pair_entry_tcp': Src-Dst Pair Entry TCP Count; 'src_dst_pair_entry_icmp': Src-Dst Pair Entry ICMP Count; 'src_dst_pair_entry_other': Src-Dst Pair Entry OTHER Count; 'dst_clist_overflow_policy_at_learning': Dst Src-Based Overflow Policy Hit; 'tcp_rexmit_syn_limit_drop': TCP SYN Retransmit Exceeded Drop; 'tcp_rexmit_syn_limit_bl': TCP SYN Retransmit Exceeded Blacklist; 'dst_tcp_wellknown_sport_drop': TCP SrcPort Wellknown; 'src_tcp_wellknown_sport_drop': Src TCP SrcPort Wellknown; 'dst_frag_rcvd': Fragmented Packets Received; 'no_policy_class_list_match': No Policy Class-list Match; 'src_udp_retry_gap_drop': Src UDP Auth: Retry-Gap Dropped; 'dst_entry_kbit_rate_exceed_count': Entry Rate: KiBit Exceeded Count; 'dst_port_undef_hit': Dst Port Undefined Hit; 'dst_tcp_action_on_ack_timeout': TCP Auth: ACK Retry Timeout; 'dst_tcp_action_on_ack_reset': TCP Auth: ACK Retry Timeout Reset; 'dst_tcp_action_on_ack_blacklist': TCP Auth: ACK Retry Timeout Blacklisted; 'src_tcp_action_on_ack_timeout': Src TCP Auth: ACK Retry Timeout; 'src_tcp_action_on_ack_reset': Src TCP Auth: ACK Retry Timeout Reset; 'src_tcp_action_on_ack_blacklist': Src TCP Auth: ACK Retry Timeout Blacklisted; 'dst_tcp_action_on_syn_timeout': TCP Auth: SYN Retry Timeout; 'dst_tcp_action_on_syn_reset': TCP Auth: SYN Retry Timeout Reset; 'dst_tcp_action_on_syn_blacklist': TCP Auth: SYN Retry Timeout Blacklisted; 'src_tcp_action_on_syn_timeout': Src TCP Auth: SYN Retry Timeout; 'src_tcp_action_on_syn_reset': Src TCP

Auth: SYN Retry Timeout Reset; 'src_tcp_action_on_syn_blacklist': Src TCP Auth: SYN Retry Timeout Blacklisted; 'dst_udp_frag_pkt_rate_exceed': UDP Dst L4-Type Rate: Frag Exceeded; 'dst_udp_frag_src_rate_drop': UDP Src Rate: Frag Exceeded; 'dst_tcp_frag_pkt_rate_exceed': TCP Dst L4-Type Rate: Frag Exceeded; 'dst_tcp_frag_src_rate_drop': TCP Src Rate: Frag Exceeded; 'dst_icmp_frag_pkt_rate_exceed': ICMP Dst L4-Type Rate: Frag Exceeded; 'dst_icmp_frag_src_rate_drop': ICMP Src Rate: Frag Exceeded; 'sflow_internal_samples_packed': Sflow Internal Samples Packed; 'sflow_external_samples_packed': Sflow External Samples Packed; 'sflow_internal_packets_sent': Sflow Internal Packets Sent; 'sflow_external_packets_sent': Sflow External Packets Sent; 'dns_outbound_total_query': DNS Outbound Total Query; 'dns_outbound_query_malformed': DNS Outbound Query Malformed; 'dns_outbound_query_resp_chk_failed': DNS Outbound Query Resp Check Failed; 'dns_outbound_query_resp_chk_blacklisted': DNS Outbound Query Resp Check Blacklisted; 'dns_outbound_query_resp_chk_refused_sent': DNS Outbound Query Resp Check REFUSED Sent; 'dns_outbound_query_resp_chk_reset_sent': DNS Outbound Query Resp Check RESET Sent; 'dns_outbound_query_resp_chk_no_resp_sent': DNS Outbound Query Resp Check No Response Sent; 'dns_outbound_query_resp_size_exceed': DNS Outbound Query Response Size Exceed; 'dns_outbound_query_sess_timed_out': DNS Outbound Query Session Timed Out; 'dst_exceed_action_tunnel': Entry Exceed Action: Tunnel; 'src_udp_auth_timeout': Src UDP Auth: Retry Timeout; 'src_udp_retry_pass': Src UDP Retry Passed;

Type: string

Supported Values: src_tcp_action_on_syn_gap_drop, src_tcp_action_on_syn_fail, src_tcp_action_on_ack_init, src_tcp_action_on_ack_gap_drop, src_tcp_action_on_ack_fail, src_tcp_out_of_seq_excd, src_tcp_retransmit_excd, src_tcp_zero_window_excd, src_tcp_conn_prate_excd, src_udp_min_payload, src_udp_max_payload, src_udp_conn_prate_excd, src_udp_ntp_monlist_req, src_udp_ntp_monlist_resp, src_udp_wellknown_sport_drop, src_udp_retry_init, dst_udp_retry_gap_drop, dst_udp_retry_fail, dst_tcp_session_aged, dst_udp_session_aged, dst_tcp_conn_close, dst_tcp_conn_close_half_open, dst_l4_tcp_auth, tcp_l4_syn_cookie_fail, tcp_l4_rst_cookie_fail, tcp_l4_unauth_drop, dst_drop_frag_pkt, src_tcp_filter_action_blacklist, src_tcp_filter_action_whitelist, src_tcp_filter_action_drop, src_tcp_filter_action_default_pass, src_udp_filter_action_blacklist, src_udp_filter_action_whitelist, src_udp_filter_action_drop, src_udp_filter_action_default_pass, src_other_filter_action_blacklist, src_other_filter_action_whitelist, src_other_filter_action_drop, src_other_filter_action_default_pass, tcp_invalid_syn, dst_tcp_conn_close_w_rst, dst_tcp_conn_close_w_fin, dst_tcp_conn_close_w_idle, dst_tcp_conn_create_from_syn, dst_tcp_conn_create_from_ack, src_frag_drop, dst_l4_tcp_blacklist_drop, dst_l4_udp_blacklist_drop, dst_l4_icmp_blacklist_drop, dst_l4_other_blacklist_drop, src_l4_tcp_blacklist_drop, src_l4_udp_blacklist_drop, src_l4_icmp_blacklist_drop, src_l4_other_blacklist_drop, drop_frag_timeout_drop, dst_port_kbit_rate_exceed_pkt, dst_tcp_bytes_rcv, dst_udp_bytes_rcv, dst_icmp_bytes_rcv, dst_other_bytes_rcv, dst_tcp_bytes_sent, dst_udp_bytes_sent, dst_icmp_bytes_sent, dst_other_bytes_sent, dst_udp_auth_drop, dst_tcp_auth_drop, dst_tcp_auth_resp, inbound_pkt_drop, dst_entry_pkt_rate_exceed, dst_entry_kbit_rate_exceed, dst_entry_conn_limit_exceed, dst_entry_conn_rate_exceed, dst_entry_frag_pkt_rate_exceed, dst_icmp_any_exceed, dst_other_any_exceed, src_dst_pair_entry_total, src_dst_pair_entry_udp, src_dst_pair_entry_tcp, src_dst_pair_entry_icmp, src_dst_pair_entry_other, dst_clist_overflow_policy_at_learning, tcp_rexmit_syn_limit_drop, tcp_rexmit_syn_limit_bl, dst_tcp_wellknown_sport_drop, src_tcp_wellknown_sport_drop, dst_frag_rcvd, no_policy_class_list_match, src_udp_retry_gap_drop, dst_entry_kbit_rate_exceed_count,

dst_port_undef_hit, dst_tcp_action_on_ack_timeout, dst_tcp_action_on_ack_reset, dst_tcp_action_on_ack_blacklist, src_tcp_action_on_ack_timeout, src_tcp_action_on_ack_reset, src_tcp_action_on_ack_blacklist, dst_tcp_action_on_syn_timeout, dst_tcp_action_on_syn_reset, dst_tcp_action_on_syn_blacklist, src_tcp_action_on_syn_timeout, src_tcp_action_on_syn_reset, src_tcp_action_on_syn_blacklist, dst_udp_frag_pkt_rate_exceed, dst_udp_frag_src_rate_drop, dst_tcp_frag_pkt_rate_exceed, dst_tcp_frag_src_rate_drop, dst_icmp_frag_pkt_rate_exceed, dst_icmp_frag_src_rate_drop, sflow_internal_samples_packed, sflow_external_samples_packed, sflow_internal_packets_sent, sflow_external_packets_sent, dns_outbound_total_query, dns_outbound_query_malformed, dns_outbound_query_resp_chk_failed, dns_outbound_query_resp_chk_blacklisted, dns_outbound_query_resp_chk_refused_sent, dns_outbound_query_resp_chk_reset_sent, dns_outbound_query_resp_chk_no_resp_sent, dns_outbound_query_resp_size_exceed, dns_outbound_query_sess_timed_out, dst_exceed_action_tunnel, src_udp_auth_timeout, src_udp_retry_pass

counters3

Description 'dst_hw_drop_rule_insert': Dst Hardware Drop Rules Inserted; 'dst_hw_drop_rule_remove': Dst Hardware Drop Rules Removed; 'src_hw_drop_rule_insert': Src Hardware Drop Rules Inserted; 'src_hw_drop_rule_remove': Src Hardware Drop Rules Removed; 'prog_first_req_time_exceed': Req-Resp: First Request Time Exceed; 'prog_req_resp_time_exceed': Req-Resp: Request to Response Time Exceed; 'prog_request_len_exceed': Req-Resp: Request Length Exceed; 'prog_response_len_exceed': Req-Resp: Response Length Exceed; 'prog_resp_pkt_rate_exceed': Req-Resp: Response Packet Rate Exceed; 'prog_resp_req_time_exceed': Req-Resp: Response to Request Time Exceed; 'entry_sync_message_received': Entry Sync Message Received; 'entry_sync_message_sent': Entry Sync Message Sent; 'prog_conn_sent_exceed': Connection: Sent Exceed; 'prog_conn_rcvd_exceed': Connection: Received Exceed; 'prog_conn_time_exceed': Connection: Time Exceed; 'prog_conn_rcvd_sent_ratio_exceed': Connection: Reveived to Sent Ratio Exceed; 'prog_win_sent_exceed': Time Window: Sent Exceed; 'prog_win_rcvd_exceed': Time Window: Received Exceed; 'prog_win_rcvd_sent_ratio_exceed': Time Window: Received to Sent Exceed; 'prog_exceed_drop': Req-Resp: Violation Exceed Dropped; 'prog_exceed_bl': Req-Resp: Violation Exceed Blacklisted; 'prog_conn_exceed_drop': Connection: Violation Exceed Dropped; 'prog_conn_exceed_bl': Connection: Violation Exceed Blacklisted; 'prog_win_exceed_drop': Time Window: Violation Exceed Dropped; 'prog_win_exceed_bl': Time Window: Violation Exceed Blacklisted; 'dst_exceed_action_drop': Entry Exceed Action: Dropped; 'src_hw_drop': Src Hardware Packets Dropped; 'dst_tcp_auth_rst': TCP Auth: Reset; 'dst_src_learn_overflow': Src Dynamic Entry Count Overflow; 'tcp_fwd_sent': TCP Inbound Packets Forwarded; 'udp_fwd_sent': UDP Inbound Packets Forwarded; 'prog_query_exceed': Req-Resp: Client Query Time Exceed; 'prog_think_exceed': Req-Resp: Server Think Time Exceed;

Type: string

Supported Values: dst_hw_drop_rule_insert, dst_hw_drop_rule_remove, src_hw_drop_rule_insert, src_hw_drop_rule_remove, prog_first_req_time_exceed, prog_req_resp_time_exceed, prog_request_len_exceed, prog_response_len_exceed, prog_resp_pkt_rate_exceed, prog_resp_req_time_exceed, entry_sync_message_received, entry_sync_message_sent, prog_conn_sent_exceed, prog_conn_rcvd_exceed, prog_conn_time_exceed, prog_conn_rcvd_sent_ratio_exceed, prog_win_sent_exceed, prog_win_rcvd_exceed, prog_win_rcvd_sent_ratio_exceed, prog_exceed_drop, prog_exceed_bl, prog_conn_exceed_drop, prog_conn_exceed_bl, prog_win_exceed_drop, prog_win_exceed_bl, dst_exceed_action_drop, src_hw_drop, dst_tcp_auth_rst, dst_src_learn_overflow, tcp_fwd_sent, udp_fwd_sent, prog_query_exceed, prog_think_exceed

dst_zone-list

Specification	Value
Type	*list*
Block object keys	

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

advertised-enable

Description BGP advertised

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/capture-config/{name}*

collector

Type: List

continuous-learning

Description Continuous learning of detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

description

Description Description for this Destination Zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dest-nat-ip

Description Destination NAT IP address

Type: string

Format: ipv4-address

dest-nat-ipv6

Description Destination NAT IPv6 address

Type: string

Format: ipv6-address

detection

Description: detection is a **JSON Block**. Please see below for *dst_zone-list_detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection*

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Type: List

force-operational-mode

Description Force configure operational mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

hw-blacklist-blocking

Description: hw-blacklist-blocking is a **JSON Block**. Please see below for *dst_zone-list_hw-blacklist-blocking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/hw-blacklist-blocking*

inbound-forward-dscp

Description To set dscp value for inbound packets (DSCP Value for the clear traffic marking)

Type: number

Range: 1-63

ip

Type: List

ip-proto

Description: ip-proto is a **JSON Block**. Please see below for *dst_zone-list_ip-proto*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto*

ipv6

Type: List

is-from-wizard

Description Is It Created from Onbox GUI Wizard

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-high-frequency

Description Enable High frequency logging for non-event logs per zone

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

non-restrictive

Description Non-restrictive mode ignores Zero Thresholds Indicators

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

operational-mode

Description 'idle': Idle mode; 'monitor': Monitor mode; 'learning': Learning mode;

Type: string

Supported Values: idle, monitor, learning

Default: idle

outbound-forward-dscp

Description To set dscp value for outbound

Type: number

Range: 1-63

outbound-policy

Description: outbound-policy is a **JSON Block**. Please see below for *dst_zone-list_outbound-policy*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy*

packet-anomaly-detection

Description: packet-anomaly-detection is a **JSON Block**. Please see below for *dst_zone-list_packet-anomaly-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection*

pattern-recognition-hw-filter-enable

Description to enable pattern recognition hardware filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition-sensitivity

Description 'high': High sensitive pattern recognition; 'medium': Medium sensitive pattern recognition; 'low': Low sensitive pattern recognition;

Type: string

Supported Values: high, medium, low

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port

Description: port is a **JSON Block**. Please see below for *dst_zone-list_port*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}*

rate-limit

Description Rate limit per second per zone(Default : 1 per second)

Type: number

Range: 1-1000

Default: 1

reporting-disabled

Description Disable Reporting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Type: List

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable sFlow counter polling packets, tcp-basic, tcp-stateful and http. WARNING: Zone level Sflow polling might induce heavy CP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-layer-4, sflow-tcp-basic, sflow-tcp-stateful, and sflow-http are mutually exclusive

sflow-http

Description Enable sFlow HTTP counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the total number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-http and sflow-common are mutually exclusive

sflow-layer-4

Description Enable sFlow Layer 4 counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the number of

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-layer-4 and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the total

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *dst_zone-list_sflow-tcp*

Type: Object

source-nat-pool

Description Configure source NAT

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-port

Description: src-port is a **JSON Block**. Please see below for *dst_zone-list_src-port*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port*

src-port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}*

src-prefix-len

Description Specify src prefix length for IPv6 (default: not set)

Type: number

Range: 32-127

telemetry-enable

Description Enable from-l3-peer flag for the zone, thus all the ip entries in the zone will be dynamically created/deleted based on the BGP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

threshold-sensitivity

Description tune threshold range (default OFF)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Default: OFF

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *dst_zone-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

web-gui

Description: web-gui is a **JSON Block**. Please see below for *dst_zone-list_web-gui*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui*

zone-migrate-to-opposite

Description Migrate zone to opposite PU

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-name

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

zone-profile

Description Apply threshold profile

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/zone-profile*

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_zone-template*

Type: Object

dst_zone-list_outbound-policy

Specification	Value
Type	*object*

name

Description Specify name of the outbound policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/outbound-policy*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip

Specification	Value
Type	*list*
Block object keys	

expand-ip-subnet

Description Expand this subnet to individual IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

expand-ip-subnet-mode

Description 'default': Default learning mechanism (Default: Dynamic); 'dynamic': Dynamic learning; 'static': Static learning;

Type: string

Supported Values: default, dynamic, static

Default: default

ip-addr

Description Specify IP address

Type: string

Format: ipv4-address

subnet-ip-addr

Description IP Subnet

Type: string

Format: ipv4-cidr

dst_zone-list_detection

Specification	Value
Type	*object*

notification

Description: notification is a **JSON Block**. Please see below for *dst_zone-list_detection_notification*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/notification*

outbound-detection

Description: outbound-detection is a **JSON Block**. Please see below for *dst_zone-list_detection_outbound-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection*

packet-anomaly-detection

Description: packet-anomaly-detection is a **JSON Block**. Please see below for *dst_zone-list_detection_packet-anomaly-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection*

service-discovery

Description: service-discovery is a **JSON Block**. Please see below for *dst_zone-list_detection_service-discovery*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery*

settings

Description 'settings': settings;

Type: string

Supported Values: settings

toggle

Description 'enable': Enable detection; 'disable': Disable detection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

victim-ip-detection

Description: victim-ip-detection is a **JSON Block**. Please see below for *dst_zone-list_detection_victim-ip-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection*

dst_zone-list_detection_packet-anomaly-detection

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator/{type}*

toggle

Description 'enable': Enable packet anomaly; 'disable': Disable packet anomaly;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_detection_packet-anomaly-detection_indicator-list

Specification	Value
Type	*list*
Block object keys	

threshold-num

Description Threshold for each indicator

Type: number

Range: 1-65535

Default: 100

type

Description 'port-zero-pkt-rate': Port Zero Packet Rate (default 100 packet per second);

Type: string

Supported Values: port-zero-pkt-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_detection_victim-ip-detection

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

histogram-toggle

Description 'histogram-enable': Enable histogram statistics of victim IP detection; 'histogram-disable': Disable histogram statistics of victim IP detection;

Type: string

Supported Values: histogram-enable, histogram-disable

Default: histogram-disable

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator/{type}*

toggle

Description 'enable': Enable victim IP detection; 'disable': Disable victim IP detection;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_detection_victim-ip-detection_indicator-list

Specification	Value
Type	*list*
Block object keys	

ip-threshold-num

Description Threshold for IP

Type: number

Range: 1-2147483647

type

Description 'pkt-rate': rate of incoming packets; 'reverse-pkt-rate': rate of reverse coming packets; 'fwd-byte-rate': rate of incoming bytes; 'rev-byte-rate': rate of reverse coming bytes;

Type: string

Supported Values: pkt-rate, reverse-pkt-rate, fwd-byte-rate, rev-byte-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_detection_notification

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

notification

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_detection_notification_notification

Specification	Value
Type	*list*
Block object keys	

notification-template-name

Description Specify the notification template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/notification-template*

dst_zone-list_detection_service-discovery

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

pkt-rate-threshold

Description packet rate threshold for discovery (default 10 packets per second)

Type: number

Range: 1-255

Default: 10

toggle

Description 'enable': Enable service discovery; 'disable': Disable service discovery;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_detection_outbound-detection

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

discovery-method

Description 'asn': Autonomous Systems number; 'country': Country;

Type: string

Supported Values: asn, country

discovery-record

Description Maximum number of top locations

Type: number

Range: 1-100

Default: 10

enable-top-k

Type: List

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator/{type}*

toggle

Description 'enable': Enable outbound detection; 'disable': Disable outbound detection;

Type: string

Supported Values: enable, disable

Default: disable

topk-source-subnet

Description: topk-source-subnet is a **JSON Block**. Please see below for *dst_zone-list_detection_outbound-detection_topk-source-subnet*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_detection_outbound-detection_topk-source-subnet

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_detection_outbound-detection_enable-top-k

Specification	Value
Type	*list*
Block object keys	

topk-netmask

Description Subnet mask. The value should be less than or equal to the minimum zone subnet mask + 8 (IPv6 Subnet mask)

Type: number

Range: 1-128

Default: 128

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-type

Description 'source-subnet': Topk source subnet;

Type: string

Supported Values: source-subnet

dst_zone-list_detection_outbound-detection_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

threshold-large-num

Description Threshold for each geo-location

Type: number

Range: 1-10995116277760

threshold-num

Description Threshold for each geo-location

Type: number

Range: 1-2147483647

threshold-str

Description Threshold for each geo-location (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, syn-rate, fin-rate, rst-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_packet-anomaly-detection

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto

Specification	Value
Type	*object*

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}*

proto-number-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}*

proto-tcp-udp-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}*

dst_zone-list_ip-proto_proto-number-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deny

Description Blacklist and Drop all incoming packets for this ip-proto

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

esp-inspect

Description: esp-inspect is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-number-list_esp-inspect*

Type: Object

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-number-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-number-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

port-ind

Description: port-ind is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-number-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-number-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking*

protocol-num

Description Protocol Number

Type: number

Range: 0-255

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-number-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-number-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-number-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-number-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-number-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

dst_zone-list_ip-proto_proto-number-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-number-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

dst_zone-list_ip-proto_proto-number-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-number-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

dst_zone-list_ip-proto_proto-number-list_level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-number-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

dst_zone-list_ip-proto_proto-number-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-number-list_manual-mode-list_zone-template*

Type: Object

dst_zone-list_ip-proto_proto-number-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-number-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid, glid, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

dst_zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

dst_zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

dst_zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-number-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-number-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP

Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current,

ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

dst_zone-list_ip-proto_proto-number-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-number-list_esp-inspect

Specification	Value
Type	*object*

auth-algorithm

Description 'AUTH_NULL': No Integrity Check Value; 'HMAC-SHA-1-96': 96 bit Auth Algo; 'HMAC-SHA-256-96': 96 bit Auth Algo; 'HMAC-SHA-256-128': 128 bit Auth Algo; 'HMAC-SHA-384-192': 192 bit Auth Algo; 'HMAC-SHA-512-256': 256 bit Auth Algo; 'HMAC-MD5-96': 96 bit Auth Algo; 'MAC-RIPEMD-160-96': 96 bit Auth Algo;

Type: string

Supported Values: AUTH_NULL, HMAC-SHA-1-96, HMAC-SHA-256-96, HMAC-SHA-256-128, HMAC-SHA-384-192, HMAC-SHA-512-256, HMAC-MD5-96, MAC-RIPEMD-160-96

encrypt-algorithm

Description 'NULL': Null Encryption Algorithm;

Type: string

Supported Values: NULL

mode

Description 'transport': Transport mode;

Type: string

Supported Values: transport

dst_zone-list_ip-proto_proto-number-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-number-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-name-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deny

Description Blacklist and Drop all incoming packets for ip-proto icmp-v4

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-name-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-name-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics*

key-cfg

Type: List

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

port-ind

Description: port-ind is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-name-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-name-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking*

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6; 'other': ip-proto other; 'gre': ip-proto gre; 'ipv4-encap': ip-proto IPv4 Encapsulation; 'ipv6-encap': ip-proto IPv6 Encapsulation;

Type: string

Supported Values: icmp-v4, icmp-v6, other, gre, ipv4-encap, ipv6-encap

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-name-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-name-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources*

tunnel-decap

Description Enable tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-rate-limit

Description Enable DDOS-protection on tunnel traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-name-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-name-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-name-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

dst_zone-list_ip-proto_proto-name-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-name-list_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-name-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

dst_zone-list_ip-proto_proto-name-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-name-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

dst_zone-list_ip-proto_proto-name-list_level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-name-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

dst_zone-list_ip-proto_proto-name-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-name-list_manual-mode-list_zone-template*

Type: Object

dst_zone-list_ip-proto_proto-name-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-name-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, icmp-v4, icmp-v6, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

dst_zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

dst_zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v4 and class-list-glid are mutually exclusive

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v6 and class-list-glid are mutually exclusive

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

dst_zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-name-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-name-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP

Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current,

ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

dst_zone-list_ip-proto_proto-name-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-name-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-name-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-tcp-udp-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for this ip-proto

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-tcp-udp-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *dst_zone-list_ip-proto_proto-tcp-udp-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics*

protocol

Description 'tcp': ip-proto tcp; 'udp': ip-proto udp;

Type: string

Supported Values: tcp, udp

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ip-proto_proto-tcp-udp-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

dst_zone-list_ip-proto_proto-tcp-udp-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config

Description: capture-config is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_capture-config*

Type: Object

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified under zone port or each class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp, quic

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-ip-filtering-policy, sflow-tcp-basic, sflow-tcp-stateful, and sflow-http are mutually exclusive

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-http and sflow-common are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

virtualhosts

Description: virtualhosts is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_virtualhosts*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts*

dst_zone-list_port-range-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

app-payload-offset

Description Set offset of the payload, default 0

Type: number

Range: 0-1500

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

dst_zone-list_port-range-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

dst_zone-list_port-range-list_level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

dst_zone-list_port-range-list_level-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

dst_zone-list_port-range-list_virtualhosts

Specification	Value
Type	*object*

source-tracking-all

Description enables creation of source entries for all virtualhosts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhosts-config

Description 'configuration': configure virtualhost based mitigation for ssl services;

Type: string

Supported Values: configuration

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}*

dst_zone-list_port-range-list_virtualhosts_virtualhost-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_virtualhosts_virtualhost-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}*

servername

Type: List

servername-list

Description Class List to match servername (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername-match-any

Description Match when there is no SNI or other servernames are not matched

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-tracking

Description 'follow': enable creation of source entries when source-tracking-all is enabled (default); 'enable': enable creation of source entries on this virtualhost; 'disable': disable creation of source entries on this virtualhost;

Type: string

Supported Values: follow, enable, disable

Default: follow

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_virtualhosts_virtualhost-list_servername

Specification	Value
Type	*list*
Block object keys	

host-match-string

Description SNI String

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'contains': match servername extension when contains this string; 'ends-with': match servername extension when ends with this string; 'equals': match servername extension when equals this string; 'starts-with': match servername extension when starts with this string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

dst_zone-list_port-range-list_virtualhosts_virtualhost-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

dst_zone-list_port-range-list_virtualhosts_virtualhost-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_virtualhosts_virtualhost-list_level-list_zone-template*

Type: Object

dst_zone-list_port-range-list_virtualhosts_virtualhost-list_level-list_zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_manual-mode-list_zone-template*

Type: Object

dst_zone-list_port-range-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, quic, dns, http, ssl-l4, sip, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

dst_zone-list_port-range-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns and class-list-glid are mutually exclusive

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: quic and class-list-glid are mutually exclusive

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip and class-list-glid are mutually exclusive

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4 and class-list-glid are mutually exclusive

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

dst_zone-list_port-range-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

dst_zone-list_port-range-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port-range-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

dst_zone-list_port-range-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current;

‘ddet_ind_pkt_drop_ratio_min’: Pkt Drop / Pkt Rcvd Min; ‘ddet_ind_pkt_drop_ratio_max’: Pkt Drop / Pkt Rcvd Max; ‘ddet_ind_pkt_drop_ratio_adaptive_threshold’: Pkt Drop / Pkt Rcvd Adaptive Threshold; ‘ddet_ind_inb_per_outb_current’: Bytes-to / Bytes-from Current; ‘ddet_ind_inb_per_outb_min’: Bytes-to / Bytes-from Min; ‘ddet_ind_inb_per_outb_max’: Bytes-to / Bytes-from Max; ‘ddet_ind_inb_per_outb_adaptive_threshold’: Bytes-to / Bytes-from Adaptive Threshold; ‘ddet_ind_syn_per_fin_rate_current’: TCP SYN Rate / FIN Rate Current; ‘ddet_ind_syn_per_fin_rate_min’: TCP SYN Rate / FIN Rate Min; ‘ddet_ind_syn_per_fin_rate_max’: TCP SYN Rate / FIN Rate Max; ‘ddet_ind_syn_per_fin_rate_adaptive_threshold’: TCP SYN Rate / FIN Rate Adaptive Threshold; ‘ddet_ind_conn_miss_rate_current’: TCP Session Miss Rate Current; ‘ddet_ind_conn_miss_rate_min’: TCP Session Miss Rate Min; ‘ddet_ind_conn_miss_rate_max’: TCP Session Miss Rate Max; ‘ddet_ind_conn_miss_rate_adaptive_threshold’: TCP Session Miss Rate Adaptive Threshold; ‘ddet_ind_concurrent_conns_current’: TCP/UDP Concurrent Sessions Current; ‘ddet_ind_concurrent_conns_min’: TCP/UDP Concurrent Sessions Min; ‘ddet_ind_concurrent_conns_max’: TCP/UDP Concurrent Sessions Max; ‘ddet_ind_concurrent_conns_adaptive_threshold’: TCP/UDP Concurrent Sessions Adaptive Threshold; ‘ddet_ind_data_cpu_util_current’: Data CPU Utilization Current; ‘ddet_ind_data_cpu_util_min’: Data CPU Utilization Min; ‘ddet_ind_data_cpu_util_max’: Data CPU Utilization Max; ‘ddet_ind_data_cpu_util_adaptive_threshold’: Data CPU Utilization Adaptive Threshold; ‘ddet_ind_outside_intf_util_current’: Outside Interface Utilization Current; ‘ddet_ind_outside_intf_util_min’: Outside Interface Utilization Min; ‘ddet_ind_outside_intf_util_max’: Outside Interface Utilization Max; ‘ddet_ind_outside_intf_util_adaptive_threshold’: Outside Interface Utilization Adaptive Threshold; ‘ddet_ind_frag_rate_current’: Frag Pkt Rate Current; ‘ddet_ind_frag_rate_min’: Frag Pkt Rate Min; ‘ddet_ind_frag_rate_max’: Frag Pkt Rate Max; ‘ddet_ind_frag_rate_adaptive_threshold’: Frag Pkt Rate Adaptive Threshold; ‘ddet_ind_bit_rate_current’: Bit Rate Current; ‘ddet_ind_bit_rate_min’: Bit Rate Min; ‘ddet_ind_bit_rate_max’: Bit Rate Max; ‘ddet_ind_bit_rate_adaptive_threshold’: Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold,

ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

dst_zone-list_port-range-list_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

dst_zone-list_port-range-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_zone-list_port-range-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_collector

Specification	Value
Type	*list*
Block object keys	

sflow-name

Description Name of configured custom sFlow collector

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/sflow/collector/custom*

dst_zone-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_capture-config-list

Specification	Value
Type	*list*
Block object keys	

mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_zone-template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_zone-list_hw-blacklist-blocking

Specification	Value
Type	*object*

dst-enable

Description Enable Dst side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-enable

Description Enable Src side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port

Specification	Value
Type	*object*

zone-service-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}*

zone-service-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}*

dst_zone-list_port_zone-service-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config

Description: capture-config is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_capture-config*

Type: Object

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind*

port-num

Description Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp, quic

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-ip-filtering-policy, sflow-tcp-basic, sflow-tcp-stateful, and sflow-http are mutually exclusive

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-http and sflow-common are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

virtualhosts

Description: virtualhosts is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_virtualhosts*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts*

dst_zone-list_port_zone-service-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

app-payload-offset

Description Set offset of the payload

Type: number

Range: 0-1500

Default: 0

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

dst_zone-list_port_zone-service-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

dst_zone-list_port_zone-service-list_level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-signature-extraction

Description Start signature extraction from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

dst_zone-list_port_zone-service-list_level-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

dst_zone-list_port_zone-service-list_virtualhosts

Specification	Value
Type	*object*

source-tracking-all

Description enable creation of source entries for all virtualhosts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhosts-config

Description 'configuration': configure virtualhost based mitigation for ssl services;

Type: string

Supported Values: configuration

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}*

dst_zone-list_port_zone-service-list_virtualhosts_virtualhost-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_virtualhosts_virtualhost-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}*

servername

Type: List

servername-list

Description Class List to match servername (AC type Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername-match-any

Description Match when there is no SNI or other servernames are not matched

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

servername-no-sni

Description Match when there is no SNI extension found

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-tracking

Description 'follow': enable creation of source entries when source-tracking-all is enabled (default); 'enable': enable creation of source entries on this virtualhost; 'disable': disable creation of source entries on this virtualhost;

Type: string

Supported Values: follow, enable, disable

Default: follow

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_virtualhosts_virtualhost-list_servername

Specification	Value
Type	*list*
Block object keys	

host-match-string

Description SNI String

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'contains': match servername extension when contains this string; 'ends-with': match servername extension when ends with this string; 'equals': match servername extension when equals this string; 'starts-with': match servername extension when starts with this string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

dst_zone-list_port_zone-service-list_virtualhosts_virtualhost-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

dst_zone-list_port_zone-service-list_virtualhosts_virtualhost-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_virtualhosts_virtualhost-list_level-list_zone-template*

Type: Object

dst_zone-list_port_zone-service-list_virtualhosts_virtualhost-list_level-list_zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_manual-mode-list_zone-template*

Type: Object

dst_zone-list_port_zone-service-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, quic, dns, http, ssl-l4, sip, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

dst_zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

dst_zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns and class-list-glid are mutually exclusive

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: quic and class-list-glid are mutually exclusive

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip and class-list-glid are mutually exclusive

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4 and class-list-glid are mutually exclusive

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

dst_zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

dst_zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current;

'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

dst_zone-list_port_zone-service-list_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

dst_zone-list_port_zone-service-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-other-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for this zone port or each class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking*

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-tcp-basic, sflow-tcp-stateful, and sflow-ip-filtering-policy are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-other-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-other-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-other-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

dst_zone-list_port_zone-service-other-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-other-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

dst_zone-list_port_zone-service-other-list_level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

dst_zone-list_port_zone-service-other-list_level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-other-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

dst_zone-list_port_zone-service-other-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_manual-mode-list_zone-template*

Type: Object

dst_zone-list_port_zone-service-other-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-other-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

dst_zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

dst_zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

dst_zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

dst_zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-other-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-other-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-other-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold;

'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

dst_zone-list_port_zone-service-other-list_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

dst_zone-list_port_zone-service-other-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-other-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_port_zone-service-other-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_ipv6

Specification	Value
Type	*list*
Block object keys	

expand-ipv6-subnet

Description Expand this subnet to individual IPv6 address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

expand-ipv6-subnet-mode

Description 'default': Default learning mechanism (Default: Dynamic); 'dynamic': Dynamic learning; 'static': Static learning;

Type: string

Supported Values: default, dynamic, static

Default: default

ip6-addr

Description Specify IPv6 address

Type: string

Format: ipv6-address

subnet-ipv6-addr

Description IPV6 Subnet

Type: string

Format: ipv6-address-plen

dst_zone-list_src-port-range-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description: capture-config is a **JSON Block**. Please see below for *dst_zone-list_src-port-range-list_capture-config*

Type: Object

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *dst_zone-list_src-port-range-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *dst_zone-list_src-port-range-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind*

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

src-port-range-end

Description Src Port-Range End Port Number

Type: number

Range: 2-65535

src-port-range-start

Description Src Port-Range Start Port Number

Type: number

Range: 1-65535

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_src-port-range-list_zone-template*

Type: Object

dst_zone-list_src-port-range-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_zone-list_src-port-range-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

dst_zone-list_src-port-range-list_zone-template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_zone-list_src-port-range-list_port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_src-port-range-list_level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_src-port-range-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the port-range

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the port-range

Type: number

Range: 1-2147483647

dst_zone-list_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the total nu

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the total

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

dst_zone-list_src-port

Specification	Value
Type	*object*

zone-src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}*

zone-src-port-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}*

dst_zone-list_src-port_zone-src-port-list

Specification	Value
Type	*list*
Block object keys	

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *dst_zone-list_src-port_zone-src-port-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}*

outbound-src-tracking

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

port-ind

Description: port-ind is a **JSON Block**. Please see below for *dst_zone-list_src-port_zone-src-port-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind*

port-num

Description Source Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-udp': DNS-UDP Port; 'dns-tcp': DNS-TCP Port; 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: dns-udp, dns-tcp, udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_src-port_zone-src-port-list_zone-template*

Type: Object

dst_zone-list_src-port_zone-src-port-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

dst_zone-list_src-port_zone-src-port-list_zone-template

Specification	Value
Type	*object*

src-dns

Description DDOS dns src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_zone-list_src-port_zone-src-port-list_port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_src-port_zone-src-port-list_level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_src-port_zone-src-port-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

dst_zone-list_src-port_zone-src-port-other-list

Specification	Value
Type	*list*
Block object keys	

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *dst_zone-list_src-port_zone-src-port-other-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *dst_zone-list_src-port_zone-src-port-other-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dst_zone-list_src-port_zone-src-port-other-list_zone-template*

Type: Object

dst_zone-list_src-port_zone-src-port-other-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

dst_zone-list_src-port_zone-src-port-other-list_zone-template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst_zone-list_src-port_zone-src-port-other-list_port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_src-port_zone-src-port-other-list_level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_src-port_zone-src-port-other-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

dst_zone-list_web-gui

Specification	Value
Type	*object*

activated-after-learning

Description Activate it after learning

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

create-time

Description Configure create time

Type: string

Maximum Length: 13 characters

Maximum Length: 1 characters

learning

Description: learning is a **JSON Block**. Please see below for *dst_zone-list_web-gui_learning*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/learning*

modify-time

Description Configure modify time

Type: string

Maximum Length: 13 characters

Maximum Length: 1 characters

protection

Description: protection is a **JSON Block**. Please see below for *dst_zone-list_web-gui_protection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection*

sensitivity

Description '5': Low; '3': Medium; '1.5': High;

Type: string

Supported Values: 5, 3, 1.5

Default: 3

status

Description 'newly': newly; 'learning': learning; 'learned': learned; 'activated': activated;

Type: string

Supported Values: newly, learning, learned, activated

Default: newly

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_web-gui_protection

Specification	Value
Type	*object*

ip-proto

Description: ip-proto is a **JSON Block**. Please see below for *dst_zone-list_web-gui_protection_ip-proto*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto*

port

Description: port is a **JSON Block**. Please see below for *dst_zone-list_web-gui_protection_port*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range/{port-range-start}+{port-range-end}+{protocol}*

dst_zone-list_web-gui_protection_port-range-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_web-gui_protection_port

Specification	Value
Type	*object*

zone-service-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service/{port-num}+{protocol}*

zone-service-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other/{port-other}+{protocol}*

dst_zone-list_web-gui_protection_port_zone-service-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_web-gui_protection_port_zone-service-other-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_web-gui_protection_ip-proto

Specification	Value
Type	*object*

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name/{protocol}*

dst_zone-list_web-gui_protection_ip-proto_proto-name-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6;

Type: string

Supported Values: icmp-v4, icmp-v6

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_web-gui_learning

Specification	Value
Type	*object*

duration

Description '1minute': 1 minute; '6hour': 6 hours; '12hour': 12 hours; '24hour': 24 hours; '7day': 7 days;

Type: string

Supported Values: 1minute, 6hour, 12hour, 24hour, 7day

Default: 6hour

starting-time

Description Configure learning starting time

Type: string

Maximum Length: 13 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dst_zone-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'zone_tcp_any_exceed': TCP Dst IP-Proto Rate: Total Exceeded; 'zone_tcp_pkt_rate_exceed': TCP Dst IP-Proto Rate: Packet Exceeded; 'zone_tcp_conn_rate_exceed': TCP Dst IP-Proto Rate: Conn Exceeded; 'zone_udp_any_exceed': UDP Dst IP-Proto Rate: Total Exceeded; 'zone_udp_pkt_rate_exceed': UDP Dst IP-Proto Rate: Packet Exceeded; 'zone_udp_conn_limit_exceed': UDP Dst IP-Proto Limit: Conn Exceeded; 'zone_udp_conn_rate_exceed': UDP Dst IP-Proto Rate: Conn Exceeded; 'zone_icmp_pkt_rate_exceed': ICMP Dst Rate: Packet Exceeded; 'zone_other_pkt_rate_exceed': OTHER Dst IP-Proto Rate: Packet Exceeded; 'zone_other_frag_pkt_rate_exceed': OTHER Dst IP-Proto Rate: Frag Exceeded; 'zone_port_pkt_rate_exceed': Port Rate: Packet Exceeded; 'zone_port_conn_limit_exceed': Port Limit: Conn Exceeded; 'zone_port_conn_rate_exceed': Port Rate: Conn Exceeded; 'zone_pkt_sent': Inbound: Packets Forwarded; 'zone_udp_pkt_sent': UDP Total Packets Forwarded; 'zone_tcp_pkt_sent': TCP Total Packets Forwarded; 'zone_icmp_pkt_sent': ICMP Total Packets Forwarded; 'zone_other_pkt_sent': OTHER Total Packets Forwarded; 'zone_tcp_conn_limit_exceed': TCP Dst IP-Proto Limit: Conn Exceeded; 'zone_tcp_pkt_rcvd': TCP Total Packets Received; 'zone_udp_pkt_rcvd': UDP Total Packets Received; 'zone_icmp_pkt_rcvd': ICMP Total Packets Received; 'zone_other_pkt_rcvd': OTHER Total Packets Received; 'zone_udp_filter_match': UDP Filter Match; 'zone_udp_filter_not_match': UDP Filter Not Matched on Pkt; 'zone_udp_filter_action_blacklist': UDP Filter Action Blacklist; 'zone_udp_filter_action_drop': UDP Filter Action Drop; 'zone_tcp_syn': TCP Total SYN Received; 'zone_tcp_syn_drop': TCP SYN Packets Dropped; 'zone_tcp_src_rate_drop': TCP Src Rate: Total Exceeded; 'zone_udp_src_rate_drop': UDP Src Rate: Total Exceeded; 'zone_icmp_src_rate_drop': ICMP Src Rate: Total Exceeded; 'zone_other_frag_src_rate_drop': OTHER Src Rate: Frag Exceeded; 'zone_other_src_rate_drop': OTHER Src Rate: Total Exceeded; 'zone_tcp_drop': TCP Total Packets Dropped; 'zone_udp_drop': UDP Total Packets Dropped; 'zone_icmp_drop': ICMP Total Packets Dropped; 'zone_frag_drop': Fragmented Packets Dropped;

'zone_other_drop': OTHER Total Packets Dropped; 'zone_tcp_auth': TCP Auth: SYN Cookie Sent; 'zone_udp_filter_action_default_pass': UDP Filter Action Default Pass; 'zone_tcp_filter_match': TCP Filter Match; 'zone_tcp_filter_not_match': TCP Filter Not Matched on Pkt; 'zone_tcp_filter_action_blacklist': TCP Filter Action Blacklist; 'zone_tcp_filter_action_drop': TCP Filter Action Drop; 'zone_tcp_filter_action_default_pass': TCP Filter Action Default Pass; 'zone_udp_filter_action_whitelist': UDP Filter Action WL; 'zone_over_limit_on': Zone overlimit Trigger ON; 'zone_over_limit_off': Zone overlimit Trigger OFF; 'zone_port_over_limit_on': Zone port overlimit Trigger ON; 'zone_port_over_limit_off': Zone port overlimit Trigger OFF; 'zone_over_limit_action': Zone overlimit action; 'zone_port_over_limit_action': Zone port overlimit action; 'scanning_detected_drop': Scanning Detected drop (deprecated); 'scanning_detected_blacklist': Scanning Detected blacklist (deprecated); 'zone_udp_kibit_rate_drop': UDP Dst IP-Proto Rate: KiBit Exceeded; 'zone_tcp_kibit_rate_drop': TCP Dst IP-Proto Rate: KiBit Exceeded; 'zone_icmp_kibit_rate_drop': ICMP Dst Rate: KiBit Exceeded; 'zone_other_kibit_rate_drop': OTHER Dst IP-Proto Rate: KiBit Exceeded; 'zone_port_undef_drop': Dst Port Undefined Dropped; 'zone_port_bl': Dst Port Blacklist Packets Dropped; 'zone_src_port_bl': Dst SrcPort Blacklist Packets Dropped; 'zone_port_kbit_rate_exceed': Port Rate: KiBit Exceeded; 'zone_tcp_src_drop': TCP Src Packets Dropped; 'zone_udp_src_drop': UDP Src Packets Dropped; 'zone_icmp_src_drop': ICMP Src Packets Dropped; 'zone_other_src_drop': OTHER Src Packets Dropped; 'tcp_syn_rcvd': TCP Inbound SYN Received; 'tcp_syn_ack_rcvd': TCP SYN ACK Received; 'tcp_ack_rcvd': TCP ACK Received; 'tcp_fin_rcvd': TCP FIN Received; 'tcp_rst_rcvd': TCP RST Received; 'ingress_bytes': Inbound: Bytes Received; 'egress_bytes': Outbound: Bytes Received; 'ingress_packets': Inbound: Packets Received; 'egress_packets': Outbound: Packets Received; 'tcp_fwd_recv': TCP Inbound Packets Received; 'udp_fwd_recv': UDP Inbound Packets Received; 'icmp_fwd_recv': ICMP Inbound Packets Received; 'tcp_syn_cookie_fail': TCP Auth: SYN Cookie Failed; 'zone_tcp_session_created': TCP Sessions Created; 'zone_udp_session_created': UDP Sessions Created; 'zone_tcp_filter_action_whitelist': TCP Filter Action WL; 'zone_other_filter_match': OTHER Filter Match; 'zone_other_filter_not_match': OTHER Filter Not Matched on Pkt; 'zone_other_filter_action_blacklist': OTHER Filter Action Blacklist; 'zone_other_filter_action_drop': OTHER Filter Action Drop; 'zone_other_filter_action_whitelist': OTHER Filter Action WL; 'zone_other_filter_action_default_pass': OTHER Filter Action Default Pass; 'zone_blackhole_inject': Dst Blackhole Inject; 'zone_blackhole_withdraw': Dst Blackhole Withdraw; 'zone_tcp_out_of_seq_excd': TCP Out-Of-Seq Exceeded; 'zone_tcp_retransmit_excd': TCP Retransmit Exceeded; 'zone_tcp_zero_window_excd': TCP Zero-Window Exceeded; 'zone_tcp_conn_prate_excd': TCP Rate: Conn Pkt Exceeded; 'zone_tcp_action_on_ack_init': TCP Auth: ACK Retry Init; 'zone_tcp_action_on_ack_gap_drop': TCP Auth: ACK Retry Retry-Gap Dropped; 'zone_tcp_action_on_ack_fail': TCP Auth: ACK Retry Dropped; 'zone_tcp_action_on_ack_pass': TCP Auth: ACK Retry Passed; 'zone_tcp_action_on_syn_init': TCP Auth: SYN Retry Init; 'zone_tcp_action_on_syn_gap_drop': TCP Auth: SYN Retry-Gap Dropped; 'zone_tcp_action_on_syn_fail': TCP Auth: SYN Retry Dropped; 'zone_tcp_action_on_syn_pass': TCP Auth: SYN Retry Passed; 'zone_payload_too_small': UDP Payload Too Small; 'zone_payload_too_big': UDP Payload Too Large; 'zone_udp_conn_prate_excd': UDP Rate: Conn Pkt Exceeded; 'zone_udp_ntp_monlist_req': UDP NTP Monlist Request; 'zone_udp_ntp_monlist_resp': UDP NTP Monlist Response; 'zone_udp_wellknown_sport_drop': UDP SrcPort Wellknown; 'zone_udp_retry_init': UDP Auth: Retry Init; 'zone_udp_retry_pass': UDP Auth: Retry Passed; 'zone_tcp_bytes_drop': TCP Total Bytes Dropped; 'zone_udp_bytes_drop': UDP Total Bytes Dropped; 'zone_icmp_bytes_drop': ICMP Total Bytes Dropped; 'zone_other_bytes_drop': OTHER Total Bytes Dropped; 'zone_out_no_route': Dst IPv4/v6 Out No Route; 'out-

bound_bytes_sent': Outbound: Bytes Forwarded; 'outbound_drop': Outbound: Packets Dropped; 'outbound_bytes_drop': Outbound: Bytes Dropped; 'outbound_pkt_sent': Outbound: Packets Forwarded; 'inbound_bytes_sent': Inbound: Bytes Forwarded; 'inbound_bytes_drop': Inbound: Bytes Dropped; 'zone_src_port_pkt_rate_exceed': SrcPort Rate: Packet Exceeded; 'zone_src_port_kbit_rate_exceed': Src-Port Rate: KiBit Exceeded; 'zone_src_port_conn_limit_exceed': SrcPort Limit: Conn Exceeded; 'zone_src_port_conn_rate_exceed': SrcPort Rate: Conn Exceeded; 'zone_ip_proto_pkt_rate_exceed': IP-Proto Rate: Packet Exceeded; 'zone_ip_proto_kbit_rate_exceed': IP-Proto Rate: KiBit Exceeded; 'zone_tcp_port_any_exceed': TCP Port Rate: Total Exceed; 'zone_udp_port_any_exceed': UDP Port Rate: Total Exceed; 'zone_tcp_auth_pass': TCP Auth: SYN Auth Passed; 'zone_tcp_rst_cookie_fail': TCP Auth: RST Cookie Failed; 'zone_tcp_unauth_drop': TCP Auth: Unauth Dropped; 'src_tcp_syn_auth_fail': Src TCP Auth: SYN Auth Failed; 'src_tcp_syn_cookie_sent': Src TCP Auth: SYN Cookie Sent; 'src_tcp_syn_cookie_fail': Src TCP Auth: SYN Cookie Failed; 'src_tcp_rst_cookie_fail': Src TCP Auth: RST Cookie Failed;

Type: string

Supported Values: all, zone_tcp_any_exceed, zone_tcp_pkt_rate_exceed, zone_tcp_conn_rate_exceed, zone_udp_any_exceed, zone_udp_pkt_rate_exceed, zone_udp_conn_limit_exceed, zone_udp_conn_rate_exceed, zone_icmp_pkt_rate_exceed, zone_other_pkt_rate_exceed, zone_other_frag_pkt_rate_exceed, zone_port_pkt_rate_exceed, zone_port_conn_limit_exceed, zone_port_conn_rate_exceed, zone_pkt_sent, zone_udp_pkt_sent, zone_tcp_pkt_sent, zone_icmp_pkt_sent, zone_other_pkt_sent, zone_tcp_conn_limit_exceed, zone_tcp_pkt_rcvd, zone_udp_pkt_rcvd, zone_icmp_pkt_rcvd, zone_other_pkt_rcvd, zone_udp_filter_match, zone_udp_filter_not_match, zone_udp_filter_action_blacklist, zone_udp_filter_action_drop, zone_tcp_syn, zone_tcp_syn_drop, zone_tcp_src_rate_drop, zone_udp_src_rate_drop, zone_icmp_src_rate_drop, zone_other_frag_src_rate_drop, zone_other_src_rate_drop, zone_tcp_drop, zone_udp_drop, zone_icmp_drop, zone_frag_drop, zone_other_drop, zone_tcp_auth, zone_udp_filter_action_default_pass, zone_tcp_filter_match, zone_tcp_filter_not_match, zone_tcp_filter_action_blacklist, zone_tcp_filter_action_drop, zone_tcp_filter_action_default_pass, zone_udp_filter_action_whitelist, zone_over_limit_on, zone_over_limit_off, zone_port_over_limit_on, zone_port_over_limit_off, zone_over_limit_action, zone_port_over_limit_action, scanning_detected_drop, scanning_detected_blacklist, zone_udp_kibit_rate_drop, zone_tcp_kibit_rate_drop, zone_icmp_kibit_rate_drop, zone_other_kibit_rate_drop, zone_port_undef_drop, zone_port_bl, zone_src_port_bl, zone_port_kbit_rate_exceed, zone_tcp_src_drop, zone_udp_src_drop, zone_icmp_src_drop, zone_other_src_drop, tcp_syn_rcvd, tcp_syn_ack_rcvd, tcp_ack_rcvd, tcp_fin_rcvd, tcp_rst_rcvd, ingress_bytes, egress_bytes, ingress_packets, egress_packets, tcp_fwd_recv, udp_fwd_recv, icmp_fwd_recv, tcp_syn_cookie_fail, zone_tcp_session_created, zone_udp_session_created, zone_tcp_filter_action_whitelist, zone_other_filter_match, zone_other_filter_not_match, zone_other_filter_action_blacklist, zone_other_filter_action_drop, zone_other_filter_action_whitelist, zone_other_filter_action_default_pass, zone_blackhole_inject, zone_blackhole_withdraw, zone_tcp_out_of_seq_excd, zone_tcp_retransmit_excd, zone_tcp_zero_window_excd, zone_tcp_conn_prate_excd, zone_tcp_action_on_ack_init, zone_tcp_action_on_ack_gap_drop, zone_tcp_action_on_ack_fail, zone_tcp_action_on_ack_pass, zone_tcp_action_on_syn_init, zone_tcp_action_on_syn_gap_drop, zone_tcp_action_on_syn_fail, zone_tcp_action_on_syn_pass, zone_payload_too_small, zone_payload_too_big, zone_udp_conn_prate_excd, zone_udp_ntp_monlist_req, zone_udp_ntp_monlist_resp, zone_udp_wellknown_sport_drop, zone_udp_retry_init, zone_udp_retry_pass, zone_tcp_bytes_drop, zone_udp_bytes_drop, zone_icmp_bytes_drop, zone_other_bytes_drop, zone_out_no_route, outbound_bytes_sent, outbound_drop, outbound_bytes_drop, out-

bound_pkt_sent, inbound_bytes_sent, inbound_bytes_drop, zone_src_port_pkt_rate_exceed, zone_src_port_kbit_rate_exceed, zone_src_port_conn_limit_exceed, zone_src_port_conn_rate_exceed, zone_ip_proto_pkt_rate_exceed, zone_ip_proto_kbit_rate_exceed, zone_tcp_port_any_exceed, zone_udp_port_any_exceed, zone_tcp_auth_pass, zone_tcp_rst_cookie_fail, zone_tcp_unauth_drop, src_tcp_syn_auth_fail, src_tcp_syn_cookie_sent, src_tcp_syn_cookie_fail, src_tcp_rst_cookie_fail

counters2

Description 'src_tcp_unauth_drop': Src TCP Auth: Unauth Dropped; 'src_tcp_action_on_syn_init': Src TCP Auth: SYN Retry Init; 'src_tcp_action_on_syn_gap_drop': Src TCP Auth: SYN Retry-Gap Dropped; 'src_tcp_action_on_syn_fail': Src TCP Auth: SYN Retry Dropped; 'src_tcp_action_on_ack_init': Src TCP Auth: ACK Retry Init; 'src_tcp_action_on_ack_gap_drop': Src TCP Auth: ACK Retry Retry-Gap Dropped; 'src_tcp_action_on_ack_fail': Src TCP Auth: ACK Retry Dropped; 'src_tcp_out_of_seq_excd': Src TCP Out-Of-Seq Exceeded; 'src_tcp_retransmit_excd': Src TCP Retransmit Exceeded; 'src_tcp_zero_window_excd': Src TCP Zero-Window Exceeded; 'src_tcp_conn_prate_excd': Src TCP Rate: Conn Pkt Exceeded; 'src_udp_min_payload': Src UDP Payload Too Small; 'src_udp_max_payload': Src UDP Payload Too Large; 'src_udp_conn_prate_excd': Src UDP Rate: Conn Pkt Exceeded; 'src_udp_ntp_monlist_req': Src UDP NTP Monlist Request; 'src_udp_ntp_monlist_resp': Src UDP NTP Monlist Response; 'src_udp_wellknown_sport_drop': Src UDP SrcPort Wellknown; 'src_udp_retry_init': Src UDP Auth: Retry Init; 'dst_udp_retry_gap_drop': UDP Auth: Retry-Gap Dropped; 'dst_udp_retry_fail': UDP Auth: Retry Timeout; 'dst_tcp_session_aged': TCP Sessions Aged; 'dst_udp_session_aged': UDP Sessions Aged; 'dst_tcp_conn_close': TCP Connections Closed; 'dst_tcp_conn_close_half_open': TCP Half Open Connections Closed; 'dst_drop_frag_pkt': Fragmented Packets Dropped; 'src_tcp_filter_action_blacklist': Src TCP Filter Action Blacklist; 'src_tcp_filter_action_whitelist': Src TCP Filter Action WL; 'src_tcp_filter_action_drop': Src TCP Filter Action Drop; 'src_tcp_filter_action_default_pass': Src TCP Filter Action Default Pass; 'src_udp_filter_action_blacklist': Src UDP Filter Action Blacklist; 'src_udp_filter_action_whitelist': Src UDP Filter Action WL; 'src_udp_filter_action_drop': Src UDP Filter Action Drop; 'src_udp_filter_action_default_pass': Src UDP Filter Action Default Pass; 'src_other_filter_action_blacklist': Src OTHER Filter Action Blacklist; 'src_other_filter_action_whitelist': Src OTHER Filter Action WL; 'src_other_filter_action_drop': Src OTHER Filter Action Drop; 'src_other_filter_action_default_pass': Src OTHER Filter Action Default Pass; 'tcp_invalid_syn': TCP Invalid SYN Received; 'dst_tcp_conn_close_w_rst': TCP RST Connections Closed; 'dst_tcp_conn_close_w_fin': TCP FIN Connections Closed; 'dst_tcp_conn_close_w_idle': TCP Idle Connections Closed; 'dst_tcp_conn_create_from_syn': TCP Connections Created From SYN; 'dst_tcp_conn_create_from_ack': TCP Connections Created From ACK; 'src_frag_drop': Src Fragmented Packets Dropped; 'zone_port_kbit_rate_exceed_pkt': Port Rate: KiBit Pkt Exceeded; 'dst_tcp_bytes_rcv': TCP Total Bytes Received; 'dst_udp_bytes_rcv': UDP Total Bytes Received; 'dst_icmp_bytes_rcv': ICMP Total Bytes Received; 'dst_other_bytes_rcv': OTHER Total Bytes Received; 'dst_tcp_bytes_sent': TCP Total Bytes Forwarded; 'dst_udp_bytes_sent': UDP Total Bytes Forwarded; 'dst_icmp_bytes_sent': ICMP Total Bytes Forwarded; 'dst_other_bytes_sent': OTHER Total Bytes Forwarded; 'dst_udp_auth_drop': UDP Auth: Dropped; 'dst_tcp_auth_drop': TCP Auth: Dropped; 'dst_tcp_auth_resp': TCP Auth: Responded; 'dst_drop': Inbound: Packets Dropped; 'dst_entry_pkt_rate_exceed': Entry Rate: Packet Exceeded; 'dst_entry_kbit_rate_exceed': Entry Rate: KiBit Exceeded; 'dst_entry_conn_limit_exceed': Entry Limit: Conn Exceeded; 'dst_entry_conn_rate_exceed': Entry Rate: Conn Exceeded; 'dst_entry_frag_pkt_rate_exceed': Entry

Rate: Frag Packet Exceeded; 'dst_l4_tcp_blacklist_drop': Dst TCP IP-Proto Blacklist Dropped; 'dst_l4_udp_blacklist_drop': Dst UDP IP-Proto Blacklist Dropped; 'dst_l4_icmp_blacklist_drop': Dst ICMP IP-Proto Blacklist Dropped; 'dst_l4_other_blacklist_drop': Dst OTHER IP-Proto Blacklist Dropped; 'dst_frag_timeout_drop': Fragment Reassemble Timeout Drop; 'dst_icmp_any_exceed': ICMP Rate: Total Exceed; 'dst_other_any_exceed': OTHER Rate: Total Exceed; 'tcp_rexmit_syn_limit_drop': TCP SYN Retransmit Exceeded Drop; 'tcp_rexmit_syn_limit_bl': TCP SYN Retransmit Exceeded Blacklist; 'dst_clist_overflow_policy_at_learning': Dst Src-Based Overflow Policy Hit; 'zone_frag_rcvd': Fragmented Packets Received; 'zone_tcp_wellknown_sport_drop': TCP SrcPort Wellknown; 'src_tcp_wellknown_sport_drop': Src TCP SrcPort Wellknown; 'secondary_dst_entry_pkt_rate_exceed': Per Addr Rate: Packet Exceeded; 'secondary_dst_entry_kbit_rate_exceed': Per Addr Rate: KiBit Exceeded; 'secondary_dst_entry_conn_limit_exceed': Per Addr Limit: Conn Exceeded; 'secondary_dst_entry_conn_rate_exceed': Per Addr Rate: Conn Exceeded; 'secondary_dst_entry_frag_pkt_rate_exceed': Per Addr Rate: Frag Packet Exceeded; 'src_udp_retry_gap_drop': Src UDP Auth: Retry-Gap Dropped; 'dst_entry_kbit_rate_exceed_count': Entry Rate: KiBit Exceeded Count; 'secondary_entry_learn': Per Addr Entry Learned; 'secondary_entry_hit': Per Addr Entry Hit; 'secondary_entry_miss': Per Addr Entry Missed; 'secondary_entry_aged': Per Addr Entry Aged; 'secondary_entry_learning_thre_exceed': Per Addr Entry Count Overflow; 'zone_port_undef_hit': Dst Port undefined Hit; 'zone_tcp_action_on_ack_timeout': TCP Auth: ACK Retry Timeout; 'zone_tcp_action_on_ack_reset': TCP Auth: ACK Retry Timeout Reset; 'zone_tcp_action_on_ack_blacklist': TCP Auth: ACK Retry Timeout Blacklisted; 'src_tcp_action_on_ack_timeout': Src TCP Auth: ACK Retry Timeout; 'src_tcp_action_on_ack_reset': Src TCP Auth: ACK Retry Timeout Reset; 'src_tcp_action_on_ack_blacklist': Src TCP Auth: ACK Retry Timeout Blacklisted; 'zone_tcp_action_on_syn_timeout': TCP Auth: SYN Retry Timeout; 'zone_tcp_action_on_syn_reset': TCP Auth: SYN Retry Timeout Reset; 'zone_tcp_action_on_syn_blacklist': TCP Auth: SYN Retry Timeout Blacklisted; 'src_tcp_action_on_syn_timeout': Src TCP Auth: SYN Retry Timeout; 'src_tcp_action_on_syn_reset': Src TCP Auth: SYN Retry Timeout Reset; 'src_tcp_action_on_syn_blacklist': Src TCP Auth: SYN Retry Timeout Blacklisted; 'zone_udp_frag_pkt_rate_exceed': UDP Dst IP-Proto Rate: Frag Exceeded; 'zone_udp_frag_src_rate_drop': UDP Src Rate: Frag Exceeded; 'zone_tcp_frag_pkt_rate_exceed': TCP Dst IP-Proto Rate: Frag Exceeded; 'zone_tcp_frag_src_rate_drop': TCP Src Rate: Frag Exceeded; 'zone_icmp_frag_pkt_rate_exceed': ICMP Dst IP-Proto Rate: Frag Exceeded; 'zone_icmp_frag_src_rate_drop': ICMP Src Rate: Frag Exceeded; 'sflow_internal_samples_packed': Sflow Internal Samples Packed; 'sflow_external_samples_packed': Sflow External Samples Packed; 'sflow_internal_packets_sent': Sflow Internal Packets Sent; 'sflow_external_packets_sent': Sflow External Packets Sent; 'dns_outbound_total_query': DNS Outbound Total Query; 'dns_outbound_query_malformed': DNS Outbound Query Malformed; 'dns_outbound_query_resp_chk_failed': DNS Outbound Query Resp Check Failed; 'dns_outbound_query_resp_chk_blacklisted': DNS Outbound Query Resp Check Blacklisted; 'dns_outbound_query_resp_chk_refused_sent': DNS Outbound Query Resp Check REFUSED Sent; 'dns_outbound_query_resp_chk_reset_sent': DNS Outbound Query Resp Check RESET Sent; 'dns_outbound_query_resp_chk_no_resp_sent': DNS Outbound Query Resp Check No Response Sent; 'dns_outbound_query_resp_size_exceed': DNS Outbound Query Response Size Exceed; 'dns_outbound_query_sess_timed_out': DNS Outbound Query Session Timed Out; 'source_entry_total': Source Entry Total Count; 'source_entry_udp': Source Entry UDP Count; 'source_entry_tcp': Source Entry TCP Count; 'source_entry_icmp': Source Entry ICMP Count; 'source_entry_other': Source Entry

OTHER Count; 'dst_exceed_action_tunnel': Entry Exceed Action: Tunnel;

Type: string

Supported Values: src_tcp_unauth_drop, src_tcp_action_on_syn_init, src_tcp_action_on_syn_gap_drop, src_tcp_action_on_syn_fail, src_tcp_action_on_ack_init, src_tcp_action_on_ack_gap_drop, src_tcp_action_on_ack_fail, src_tcp_out_of_seq_excd, src_tcp_retransmit_excd, src_tcp_zero_window_excd, src_tcp_conn_prate_excd, src_udp_min_payload, src_udp_max_payload, src_udp_conn_prate_excd, src_udp_ntp_monlist_req, src_udp_ntp_monlist_resp, src_udp_wellknown_sport_drop, src_udp_retry_init, dst_udp_retry_gap_drop, dst_udp_retry_fail, dst_tcp_session_aged, dst_udp_session_aged, dst_tcp_conn_close, dst_tcp_conn_close_half_open, dst_drop_frag_pkt, src_tcp_filter_action_blacklist, src_tcp_filter_action_whitelist, src_tcp_filter_action_drop, src_tcp_filter_action_default_pass, src_udp_filter_action_blacklist, src_udp_filter_action_whitelist, src_udp_filter_action_drop, src_udp_filter_action_default_pass, src_other_filter_action_blacklist, src_other_filter_action_whitelist, src_other_filter_action_drop, src_other_filter_action_default_pass, tcp_invalid_syn, dst_tcp_conn_close_w_rst, dst_tcp_conn_close_w_fin, dst_tcp_conn_close_w_idle, dst_tcp_conn_create_from_syn, dst_tcp_conn_create_from_ack, src_frag_drop, zone_port_kbit_rate_exceed_pkt, dst_tcp_bytes_rcv, dst_udp_bytes_rcv, dst_icmp_bytes_rcv, dst_other_bytes_rcv, dst_tcp_bytes_sent, dst_udp_bytes_sent, dst_icmp_bytes_sent, dst_other_bytes_sent, dst_udp_auth_drop, dst_tcp_auth_drop, dst_tcp_auth_resp, dst_drop, dst_entry_pkt_rate_exceed, dst_entry_kbit_rate_exceed, dst_entry_conn_limit_exceed, dst_entry_conn_rate_exceed, dst_entry_frag_pkt_rate_exceed, dst_l4_tcp_blacklist_drop, dst_l4_udp_blacklist_drop, dst_l4_icmp_blacklist_drop, dst_l4_other_blacklist_drop, dst_frag_timeout_drop, dst_icmp_any_exceed, dst_other_any_exceed, tcp_rexmit_syn_limit_drop, tcp_rexmit_syn_limit_bl, dst_clist_overflow_policy_at_learning, zone_frag_rcvd, zone_tcp_wellknown_sport_drop, src_tcp_wellknown_sport_drop, secondary_dst_entry_pkt_rate_exceed, secondary_dst_entry_kbit_rate_exceed, secondary_dst_entry_conn_limit_exceed, secondary_dst_entry_conn_rate_exceed, secondary_dst_entry_frag_pkt_rate_exceed, src_udp_retry_gap_drop, dst_entry_kbit_rate_exceed_count, secondary_entry_learn, secondary_entry_hit, secondary_entry_miss, secondary_entry_aged, secondary_entry_learning_thre_exceed, zone_port_undef_hit, zone_tcp_action_on_ack_timeout, zone_tcp_action_on_ack_reset, zone_tcp_action_on_ack_blacklist, src_tcp_action_on_ack_timeout, src_tcp_action_on_ack_reset, src_tcp_action_on_ack_blacklist, zone_tcp_action_on_syn_timeout, zone_tcp_action_on_syn_reset, zone_tcp_action_on_syn_blacklist, src_tcp_action_on_syn_timeout, src_tcp_action_on_syn_reset, src_tcp_action_on_syn_blacklist, zone_udp_frag_pkt_rate_exceed, zone_udp_frag_src_rate_drop, zone_tcp_frag_pkt_rate_exceed, zone_tcp_frag_src_rate_drop, zone_icmp_frag_pkt_rate_exceed, zone_icmp_frag_src_rate_drop, sflow_internal_samples_packed, sflow_external_samples_packed, sflow_internal_packets_sent, sflow_external_packets_sent, dns_outbound_total_query, dns_outbound_query_malformed, dns_outbound_query_resp_chk_failed, dns_outbound_query_resp_chk_blacklisted, dns_outbound_query_resp_chk_refused_sent, dns_outbound_query_resp_chk_reset_sent, dns_outbound_query_resp_chk_no_resp_sent, dns_outbound_query_resp_size_exceed, dns_outbound_query_sess_timed_out, source_entry_total, source_entry_udp, source_entry_tcp, source_entry_icmp, source_entry_other, dst_exceed_action_tunnel

counters3

Description 'dst_udp_retry_timeout_blacklist': UDP Auth: Retry Timeout Blacklisted; 'src_udp_auth_timeout': Src UDP Auth: Retry Timeout;

'zone_src_udp_retry_timeout_blacklist': Src UDP Auth: Retry Timeout Blacklisted; 'src_udp_retry_pass': Src UDP Retry Passed; 'secondary_port_learn': Per Addr Port Learned; 'secondary_port_aged': Per Addr Port Aged; 'dst_entry_outbound_udp_session_created': Outbound: UDP Sessions Created; 'dst_entry_outbound_udp_session_aged': Outbound: UDP Sessions Aged; 'dst_entry_outbound_tcp_session_created': Outbound: TCP Sessions Created; 'dst_entry_outbound_tcp_session_aged': Outbound: TCP Sessions Aged; 'dst_entry_outbound_pkt_rate_exceed': Outbound Rate: Packet Exceeded; 'dst_entry_outbound_kbit_rate_exceed': Outbound Rate: KiBit Exceeded; 'dst_entry_outbound_kbit_rate_exceed_count': Outbound Rate: KiBit Exceeded Count; 'dst_entry_outbound_conn_limit_exceed': Outbound Limit: Conn Exceeded; 'dst_entry_outbound_conn_rate_exceed': Outbound Rate: Conn Exceeded; 'dst_entry_outbound_frag_pkt_rate_exceed': Outbound Rate: Frag Packet Exceeded; 'prog_first_req_time_exceed': Req-Resp: First Request Time Exceed; 'prog_req_resp_time_exceed': Req-Resp: Request to Response Time Exceed; 'prog_request_len_exceed': Req-Resp: Request Length Exceed; 'prog_response_len_exceed': Req-Resp: Response Length Exceed; 'prog_resp_req_ratio_exceed': Req-Resp: Response to Request Ratio Exceed; 'prog_resp_req_time_exceed': Req-Resp: Response to Request Time Exceed; 'entry_sync_message_received': Entry Sync Message Received; 'entry_sync_message_sent': Entry Sync Message Sent; 'prog_conn_sent_exceed': Connection: Sent Exceed; 'prog_conn_rcvd_exceed': Connection: Received Exceed; 'prog_conn_time_exceed': Connection: Time Exceed; 'prog_conn_rcvd_sent_ratio_exceed': Connection: Reveived to Sent Ratio Exceed; 'prog_win_sent_exceed': Time Window: Sent Exceed; 'prog_win_rcvd_exceed': Time Window: Received Exceed; 'prog_win_rcvd_sent_ratio_exceed': Time Window: Received to Sent Exceed; 'prog_exceed_drop': Req-Resp: Violation Exceed Dropped; 'prog_exceed_bl': Req-Resp: Violation Exceed Blacklisted; 'prog_conn_exceed_drop': Connection: Violation Exceed Dropped; 'prog_conn_exceed_bl': Connection: Violation Exceed Blacklisted; 'prog_win_exceed_drop': Time Window: Violation Exceed Dropped; 'prog_win_exceed_bl': Time Window: Violation Exceed Blacklisted; 'east_west_inbound_rcv_pkt': East West: Inbound Packets Received; 'east_west_inbound_drop_pkt': East West: Inbound Packets Dropped; 'east_west_inbound_fwd_pkt': East West: Inbound Packets Forwarded; 'east_west_inbound_rcv_byte': East West: Inbound Bytes Received; 'east_west_inbound_drop_byte': East West: Inbound Bytes Dropped; 'east_west_inbound_fwd_byte': East West: Inbound Bytes Forwarded; 'east_west_outbound_rcv_pkt': East West: Outbound Packets Received; 'east_west_outbound_drop_pkt': East West: Outbound Packets Dropped; 'east_west_outbound_fwd_pkt': East West: Outbound Packets Forwarded; 'east_west_outbound_rcv_byte': East West: Outbound Bytes Received; 'east_west_outbound_drop_byte': East West: Outbound Bytes Dropped; 'east_west_outbound_fwd_byte': East West: Outbound Bytes Forwarded; 'dst_exceed_action_drop': Entry Exceed Action: Dropped; 'prog_conn_samples': Sample Collected: Connection; 'prog_req_samples': Sample Collected: Req-Resp; 'prog_win_samples': Sample Collected: Time Window; 'victim_ip_learned': Victim Identification: IP Entry Learned; 'victim_ip_aged': Victim Identification: IP Entry Aged;

Type: string

Supported Values: dst_udp_retry_timeout_blacklist, src_udp_auth_timeout, zone_src_udp_retry_timeout_blacklist, src_udp_retry_pass, secondary_port_learn, secondary_port_aged, dst_entry_outbound_udp_session_created, dst_entry_outbound_udp_session_aged, dst_entry_outbound_tcp_session_created, dst_entry_outbound_tcp_session_aged, dst_entry_outbound_pkt_rate_exceed, dst_entry_outbound_kbit_rate_exceed, dst_entry_outbound_kbit_rate_exceed_count, dst_entry_outbound_conn_limit_exceed, dst_entry_outbound_conn_rate_exceed, dst_entry_outbound_frag_pkt_rate_exceed, prog_first_req_time_exceed,

prog_req_resp_time_exceed, prog_request_len_exceed, prog_response_len_exceed, prog_resp_pkt_rate_exceed, prog_resp_req_time_exceed, entry_sync_message_received, entry_sync_message_sent, prog_conn_sent_exceed, prog_conn_rcvd_exceed, prog_conn_time_exceed, prog_conn_rcvd_sent_ratio_exceed, prog_win_sent_exceed, prog_win_rcvd_exceed, prog_win_rcvd_sent_ratio_exceed, prog_exceed_drop, prog_exceed_bl, prog_conn_exceed_drop, prog_conn_exceed_bl, prog_win_exceed_drop, prog_win_exceed_bl, east_west_inbound_rcv_pkt, east_west_inbound_drop_pkt, east_west_inbound_fwd_pkt, east_west_inbound_rcv_byte, east_west_inbound_drop_byte, east_west_inbound_fwd_byte, east_west_outbound_rcv_pkt, east_west_outbound_drop_pkt, east_west_outbound_fwd_pkt, east_west_outbound_rcv_byte, east_west_outbound_drop_byte, east_west_outbound_fwd_byte, dst_exceed_action_drop, dst_src_learn_overflow, dst_tcp_auth_rst, prog_query_exceed, prog_think_exceed, prog_conn_samples, prog_req_samples, prog_win_samples, victim_ip_learned, victim_ip_aged, prog_conn_samples_processed, prog_req_samples_processed, prog_win_samples_processed, token_auth_mismatched_packets, token_auth_invalid_packets, token_auth_current_salt_matched, token_auth_previous_salt_matched, token_auth_session_created, token_auth_session_created_fail, tcp_invalid_synack, zone_tcp_small_window_excd, src_tcp_small_window_excd, small_window_rcv, multi_pu_src_hash_pu1, multi_pu_src_hash_pu2

dst_zone-list_enable-top-k

Specification	Value
Type	*list*
Block object keys	

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-type

Description 'destination': Topk destination IP;

Type: string

Supported Values: destination

system-default

Specification	Value
Type	*object*

limit-list

Type: List

Reference Object: */axapi/v3/ddos/system-default/limit/{limit-type}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

system-default_limit-list

Specification	Value
Type	*list*
Block object keys	

default-bit-rate-limit

Description Configure Default Kibit (kibibit / 1024-bit) rate limit

Type: number

Range: 1-16000000

default-conn-limit

Description Configure Default Connection limit

Type: number

Range: 1-16000000

default-conn-rate-limit

Description Configure Default Connection rate limit

Type: number

Range: 1-16000000

default-frag-pkt-rate-limit

Description Configure Default Fragmented packet rate limit

Type: number

Range: 1-16000000

default-over-limit-action

Description: default-over-limit-action is a **JSON Block**. Please see below for *system-default_limit-list_default-over-limit-action*

Type: Object

default-pkt-rate-limit

Description Configure Default Packet rate limit

Type: number

Range: 1-16000000

limit-type

Description 'dst-entry': dst-entry; 'dst-icmp': dst-icmp; 'dst-other': dst-other; 'dst-tcp': dst-tcp; 'dst-udp': dst-udp; 'src-entry': src-entry; 'src-icmp': src-icmp; 'src-other': src-other; 'src-tcp': src-tcp; 'src-udp': src-udp;

Type: string

Supported Values: dst-entry, dst-icmp, dst-other, dst-tcp, dst-udp, src-entry, src-icmp, src-other, src-tcp, src-udp

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

system-default_limit-list_default-over-limit-action

Specification	Value
Type	*object*

drop

Description Silently Drop the new connection / new packet when it exceeds limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

notification-template-common

Specification	Value
Type	*object*

default-template

Type: List

on-box-gui-notification

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

notification-template-common_default-template

Specification	Value
Type	*list*
Block object keys	

default-notification-template

Description Specify the notification template name (Default notification template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/notification-template*

zone-template

Specification	Value
Type	*object*

dns-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/dns/{name}*

encap-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/encap/{encap-tmpl-name}*

http-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/http/{http-tmpl-name}*

icmp-v4-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}*

icmp-v6-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}*

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/ip-proto/{name}*

logging-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/logging/{logging-tmpl-name}*

quic-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}*

sip-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}*

ssl-l4-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}*

tcp-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}*

udp-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/udp/{name}*

zone-template_logging-list

Specification	Value
Type	*list*
Block object keys	

enable-action-logging

Description Log action taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-format-cef

Description Log in CEF format

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-format-custom

Description Customize log format

Type: string

Format: string-rlx

Maximum Length: 512 characters

Maximum Length: 1 characters

logging-tmpl-name

Description DDOS Logging Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: default

use-obj-name

Description Show obj name instead of ip in the log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_tcp-list

Specification	Value
Type	*list*
Block object keys	

ack-authentication

Description: ack-authentication is a **JSON Block**. Please see below for *zone-template_tcp-list_ack-authentication*

Type: Object

ack-authentication-synack-reset

Description Reset client TCP SYN+ACK for authentication (DST support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-on-ack-rto-retry-count

Description Take action if ack-auth RTO-authentication fail over retry time(default:5)

Type: number

Range: 2-10

action-on-syn-rto-retry-count

Description Take action if syn-auth RTO-authentication fail over retry time(default:5)

Type: number

Range: 2-10

age

Description Session age in minutes

Type: number

Range: 1-63

Default: 2

Mutual Exclusion: age and age-second are mutually exclusive

age-out-reset-server

Description Send TCP reset to server if aging time has passed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

age-second

Description Session age in seconds

Type: number

Range: 1-3600

Default: 120

Mutual Exclusion: age-second and age are mutually exclusive

allow-syn-otherflags

Description Treat TCP SYN+PSH as a TCP SYN (DST tcp ports support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-synack-skip-authentications

Description Allow create sessions on SYNACK without syn-auth and ack-auth (ASYM Mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-tcp-tfo

Description Allow TCP Fast Open

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

concurrent

Description Enable concurrent port access for non-matching ports (DST support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

conn-rate-limit-on-syn-only

Description Only count SYN-initiated connections towards connection-rate tracking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

create-conn-on-syn-only

Description Enable connection establishment on SYN only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst

Description: dst is a **JSON Block**. Please see below for *zone-template_tcp-list_dst*

Type: Object

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/filter/{tcp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

known-resp-src-port-cfg

Description: known-resp-src-port-cfg is a **JSON Block**. Please see below for *zone-template_tcp-list_known-resp-src-port-cfg*

Type: Object

max-rexmit-syn-per-flow-cfg

Description: max-rexmit-syn-per-flow-cfg is a **JSON Block**. Please see below for *zone-template_tcp-list_max-rexmit-syn-per-flow-cfg*

Type: Object

name

Description DDOS TCP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

out-of-seq-cfg

Description: out-of-seq-cfg is a **JSON Block**. Please see below for *zone-template_tcp-list_out-of-seq-cfg*

Type: Object

per-conn-out-of-seq-rate-cfg

Description: per-conn-out-of-seq-rate-cfg is a **JSON Block**. Please see below for *zone-template_tcp-list_per-conn-out-of-seq-rate-cfg*

Type: Object

per-conn-pkt-rate-cfg

Description: per-conn-pkt-rate-cfg is a **JSON Block**. Please see below for *zone-template_tcp-list_per-conn-pkt-rate-cfg*

Type: Object

per-conn-rate-interval

Description '100ms': 100ms; '1sec': 1sec; '10sec': 10sec;

Type: string

Supported Values: 100ms, 1sec, 10sec

Default: 1sec

per-conn-retransmit-rate-cfg

Description: per-conn-retransmit-rate-cfg is a **JSON Block**. Please see below for *zone-template_tcp-list_per-conn-retransmit-rate-cfg*

Type: Object

per-conn-zero-win-rate-cfg

Description: per-conn-zero-win-rate-cfg is a **JSON Block**. Please see below for *zone-template_tcp-list_per-conn-zero-win-rate-cfg*

Type: Object

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *zone-template_tcp-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking*

retransmit-cfg

Description: retransmit-cfg is a **JSON Block**. Please see below for *zone-template_tcp-list_retransmit-cfg*

Type: Object

small-win-cfg

Description: small-win-cfg is a **JSON Block**. Please see below for *zone-template_tcp-list_small-win-cfg*

Type: Object

src

Description: src is a **JSON Block**. Please see below for *zone-template_tcp-list_src*

Type: Object

syn-authentication

Description: syn-authentication is a **JSON Block**. Please see below for *zone-template_tcp-list_syn-authentication*

Type: Object

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

synack-rate-limit

Description Config SYNACK rate limit

Type: number

Range: 1-16000000

Mutual Exclusion: synack-rate-limit and track-together-with-syn are mutually exclusive

tcp-half-open-timeout

Description TCP half-open session age in seconds

Type: number

Range: 1-3600

Default: 120

tcp-half-open-timeout-reset-server

Description Send TCP reset to server if TCP half-open session timeout

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

track-together-with-syn

Description SYNACK will be counted in Dst Syn-rate limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: track-together-with-syn and synack-rate-limit are mutually exclusive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zero-win-cfg

Description: zero-win-cfg is a **JSON Block**. Please see below for *zone-template_tcp-list_zero-win-cfg*

Type: Object

zone-template_tcp-list_syn-authentication

Specification	Value
Type	*object*

syn-auth-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Send reset to client (Applicable to retransmit-check only);

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: syn-auth-fail-action and syn-auth-fail-action-list-name are mutually exclusive

syn-auth-fail-action-list-name

Description Configure action-list to take for failing the authentication.

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: syn-auth-fail-action-list-name and syn-auth-fail-action are mutually exclusive

syn-auth-min-delay

Description Minimum delay (in 100ms intervals) between SYN retransmits for retransmit-check to pass

Type: number

Range: 1-80

Mutual Exclusion: syn-auth-min-delay and syn-auth-type are mutually exclusive

syn-auth-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: syn-auth-pass-action and syn-auth-pass-action-list-name are mutually exclusive

syn-auth-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: syn-auth-pass-action-list-name and syn-auth-pass-action are mutually exclusive

syn-auth-rto

Description Estimate the RTO and apply the exponential back-off for authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth-timeout

Description syn retransmit timeout in seconds(default timeout: 5 seconds)

Type: number

Range: 1-31

Mutual Exclusion: syn-auth-timeout and syn-auth-type are mutually exclusive

syn-auth-type

Description 'send-rst': Send reset to client after syn cookie check pass; 'force-rst-by-ack': Send client a bad ack after syn cookie check pass; 'force-rst-by-synack': Send client a bad synack after syn cookie check pass;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, send-rst-once, hybrid

Mutual Exclusion: syn-auth-type, syn-auth-timeout, and syn-auth-min-delay are mutually exclusive

zone-template_tcp-list_ack-authentication

Specification	Value
Type	*object*

ack-auth-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Send reset to client;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: ack-auth-fail-action and ack-auth-fail-action-list-name are mutually exclusive

ack-auth-fail-action-list-name

Description Configure action-list to take for failing the authentication.

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ack-auth-fail-action-list-name and ack-auth-fail-action are mutually exclusive

ack-auth-min-delay

Description Minimum delay (in 100ms intervals) between ACK retransmits for retransmit-check to pass

Type: number

Range: 1-80

ack-auth-only

Description Apply retransmit-check only once per source address for authentication purpose

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ack-auth-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: ack-auth-pass-action and ack-auth-pass-action-list-name are mutually exclusive

ack-auth-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ack-auth-pass-action-list-name and ack-auth-pass-action are mutually exclusive

ack-auth-rto

Description Estimate the RTO and apply the exponential back-off for authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ack-auth-timeout

Description ack retransmit timeout in seconds(default timeout: 5 seconds)

Type: number

Range: 1-31

zone-template_tcp-list_retransmit-cfg

Specification	Value
Type	*object*

retransmit

Description Take action if retransmit pkts exceed configured threshold

Type: number

Range: 1-64000

Mutual Exclusion: retransmit and per-conn-retransmit-rate-limit are mutually exclusive

retransmit-action

Description 'drop': Drop packets for retrans exceed (Default); 'blacklist-src': help Blacklist-src for retrans exceed; 'ignore': help Ignore retrans exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: retransmit-action and retransmit-action-list-name are mutually exclusive

retransmit-action-list-name

Description Configure action-list to take for retransmit exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: retransmit-action-list-name and retransmit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_tcp-list_dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *zone-template_tcp-list_dst_rate-limit*

Type: Object

zone-template_tcp-list_dst_rate-limit

Specification	Value
Type	*object*

syn-rate-limit

Description: syn-rate-limit is a **JSON Block**. Please see below for *zone-template_tcp-list_dst_rate-limit_syn-rate-limit*

Type: Object

zone-template_tcp-list_dst_rate-limit_syn-rate-limit

Specification	Value
Type	*object*

dst-syn-rate-action

Description 'drop': Drop packets for syn-rate exceed (Default); 'ignore': Ignore syn-rate-exceed;

Type: string

Supported Values: drop, ignore

Default: drop

dst-syn-rate-limit

Description

Type: number

Range: 1-16000000

zone-template_tcp-list_per-conn-retransmit-rate-cfg

Specification	Value
Type	*object*

per-conn-retransmit-rate-action

Description 'drop': Drop packets for retrans rate exceed (Default); 'blacklist-src': help Blacklist-src for retrans rate exceed; 'ignore': help Ignore retrans rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-retransmit-rate-action and per-conn-retransmit-rate-action-list-name are mutually exclusive

per-conn-retransmit-rate-action-list-name

Description Configure action-list to take for retransmit rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-retransmit-rate-action-list-name and per-conn-retransmit-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-retransmit-rate-limit

Description Take action if retransmit pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-retransmit-rate-limit and retransmit are mutually exclusive

zone-template_tcp-list_per-conn-zero-win-rate-cfg

Specification	Value
Type	*object*

per-conn-zero-win-rate-action

Description 'drop': Drop packets for zero-win rate exceed (Default); 'blacklist-src': help Blacklist-src for zero-win rate exceed; 'ignore': Ignore zero-win rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-zero-win-rate-action and per-conn-zero-win-rate-action-list-name are mutually exclusive

per-conn-zero-win-rate-action-list-name

Description Configure action-list to take for zero window rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-zero-win-rate-action-list-name and per-conn-zero-win-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-zero-win-rate-limit

Description Take action if zero window pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-zero-win-rate-limit and zero-win are mutually exclusive

zone-template_tcp-list_per-conn-pkt-rate-cfg

Specification	Value
Type	*object*

per-conn-pkt-rate-action

Description 'drop': Drop packets for per-conn-pkt-rate exceed (Default); 'blacklist-src': help Blacklist-src for per-conn-pkt-rate exceed; 'ignore': Ignore per-conn-pkt-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-pkt-rate-action and per-conn-pkt-rate-action-list-name are mutually exclusive

per-conn-pkt-rate-action-list-name

Description Configure action-list to take for per-conn-pkt-rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-pkt-rate-action-list-name and per-conn-pkt-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-pkt-rate-limit

Description Packet rate limit per connection per rate-interval

Type: number

Range: 1-16000000

zone-template_tcp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Default: drop

Mutual Exclusion: tcp-filter-action and tcp-filter-action-list-name are mutually exclusive

tcp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp-filter-action-list-name and tcp-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

tcp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_tcp-list_max-rexmit-syn-per-flow-cfg

Specification	Value
Type	*object*

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow

Type: number

Range: 1-6

max-rexmit-syn-per-flow-action

Description 'drop': Drop SYN packets for max-rexmit-syn-per-flow exceed (Default); 'blacklist-src': help Blacklist-src for max-rexmit-syn-per-flow exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

max-rexmit-syn-per-flow-action-list-name

Description Configure action-list to take for max-rexmit-syn-per-flow exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

zone-template_tcp-list_src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *zone-template_tcp-list_src_rate-limit*

Type: Object

zone-template_tcp-list_src_rate-limit

Specification	Value
Type	*object*

syn-rate-limit

Description: syn-rate-limit is a **JSON Block**. Please see below for *zone-template_tcp-list_src_rate-limit_syn-rate-limit*

Type: Object

zone-template_tcp-list_src_rate-limit_syn-rate-limit

Specification	Value
Type	*object*

src-syn-rate-action

Description 'drop': Drop packets for syn-rate exceed (Default); 'blacklist-src': Blacklist-src for syn-rate exceed; 'ignore': Ignore syn-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: src-syn-rate-action and src-syn-rate-action-list-name are mutually exclusive

src-syn-rate-action-list-name

Description Configure action-list to take for syn-rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-syn-rate-action-list-name and src-syn-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src-syn-rate-limit

Description

Type: number

Range: 1-16000000

zone-template_tcp-list_progression-tracking

Specification	Value
Type	*object*

ignore-TLS-handshake

Description Ignore TLS handshake, support SSL-L4 port only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

mitigation

Description: mitigation is a **JSON Block**. Please see below for *zone-template_tcp-list_progression-tracking_mitigation*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation*

profiling

Description: profiling is a **JSON Block**. Please see below for *zone-template_tcp-list_progression-tracking_profiling*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/profiling*

progression-tracking-enabled

Description 'enable-check': Enable Progression Tracking Check;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_tcp-list_progression-tracking_mitigation

Specification	Value
Type	*object*

connection-tracking

Description: connection-tracking is a **JSON Block**. Please see below for *zone-template_tcp-list_progression-tracking_mitigation_connection-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/connection-tracking*

request-tracking

Description: request-tracking is a **JSON Block**. Please see below for *zone-template_tcp-list_progression-tracking_mitigation_request-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/request-tracking*

slow-attack

Description: slow-attack is a **JSON Block**. Please see below for *zone-template_tcp-list_progression-tracking_mitigation_slow-attack*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack*

time-window-tracking

Description: time-window-tracking is a **JSON Block**. Please see below for *zone-template_tcp-list_progression-tracking_mitigation_time-window-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/time-window-tracking*

zone-template_tcp-list_progression-tracking_mitigation_time-window-tracking

Specification	Value
Type	*object*

progression-tracking-win-enabled

Description 'enable-check': Enable Progression Tracking per Time Window;

Type: string

Supported Values: enable-check

Default: enable-check

progression-tracking-windows-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-windows-action and progression-tracking-windows-action-list-name are mutually exclusive

progression-tracking-windows-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-windows-action-list-name and progression-tracking-windows-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

window-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

window-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

window-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

window-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

window-violation

Description Set the violation threshold

Type: number

Range: 1-255

zone-template_tcp-list_progression-tracking_mitigation_slow-attack

Specification	Value
Type	*object*

init-request-max-time

Description Set client query time (in unit of 100ms). Suggested value larger than 30 secs

Type: number

Range: 2-6000

init-response-max-time

Description Set server think time (in unit of 100ms). Suggested value larger than 45 secs

Type: number

Range: 2-6000

progression-tracking-slow-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-slow-action and progression-tracking-slow-action-list-name are mutually exclusive

progression-tracking-slow-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-slow-action-list-name and progression-tracking-slow-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

response-pkt-rate-max

Description Set the transferred packets per response

Type: number

Range: 1-255

slow-attack

Description 'enable-check': Enter Progression Tracking Tracking Slow Attack;

Type: string

Supported Values: enable-check

Default: enable-check

slow-attacker-identification

Description: slow-attacker-identification is a **JSON Block**. Please see below for *zone-template_tcp-list_progression-tracking_mitigation_slow-attack_slow-attacker-identification*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack/slow-attacker-identification*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_tcp-list_progression-tracking_mitigation_slow-attack_slow-attacker-identification

Specification	Value
Type	*object*

active-connection

Description Set the minimum tracking active connection to start identifying slow attacker, default value is 3

Type: number

Range: 1-65535

Default: 3

bad-connection

Description Set the maximum percentage of slow connection (per source), default value is 75

Type: number

Range: 1-100

Default: 75

enable-identification

Description Progression tracking will identify slow attacker and blacklist it based on the config value

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_tcp-list_progression-tracking_mitigation_connection-tracking

Specification	Value
Type	*object*

conn-duration-max

Description Set the maximum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-2147483647

conn-duration-min

Description Set the minimum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-2147483647

conn-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-2147483647

conn-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of milli-, 0.001)

Type: number

Range: 1-2147483647

conn-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of milli-, 0.001)

Type: number

Range: 1-65535

conn-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-2147483647

conn-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

conn-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking-conn-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-conn-action and progression-tracking-conn-action-list-name are mutually exclusive

progression-tracking-conn-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-conn-action-list-name and progression-tracking-conn-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-conn-enabled

Description 'enable-check': Enable General Progression Tracking per Connection;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_tcp-list_progression-tracking_mitigation_request-tracking

Specification	Value
Type	*object*

first-request-max-time

Description Set the maximum idle time before the first request (in unit of 100ms)

Type: number

Range: 1-65535

progression-tracking-req-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-req-action and progression-tracking-req-action-list-name are mutually exclusive

progression-tracking-req-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-req-action-list-name and progression-tracking-req-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-req-enabled

Description 'enable-check': Enable General Progression Tracking per Request Response;

Type: string

Supported Values: enable-check

Default: enable-check

request-length-max

Description Set the maximum request length

Type: number

Range: 1-65535

request-length-min

Description Set the minimum request length

Type: number

Range: 1-65535

request-response-model

Description 'enable': Enable Request Response Model (Default); 'disable': Disable Request Response Model;

Type: string

Supported Values: enable, disable

Default: enable

request-to-response-max-time

Description Set the maximum request to response time (in unit of 100ms)

Type: number

Range: 1-65535

response-length-max

Description Set the maximum response length

Type: number

Range: 1-4294967295

response-length-min

Description Set the minimum response length

Type: number

Range: 1-65535

response-to-request-max-time

Description Set the maximum response to request time (in unit of 100ms)

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation

Description Set the violation threshold

Type: number

Range: 1-255

zone-template_tcp-list_progression-tracking_profiling

Specification	Value
Type	*object*

profiling-connection-life-model

Description Enable auto-config progression tracking learning for connection model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-request-response-model

Description Enable auto-config progression tracking learning for request response model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-time-window-model

Description Enable auto-config progression tracking learning for time window model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_tcp-list_known-resp-src-port-cfg

Specification	Value
Type	*object*

exclude-src-resp-port

Description Exclude src port equal to dst port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

known-resp-src-port

Description Take action if src-port is less than 1024

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

known-resp-src-port-action

Description 'drop': Drop packets from well-known src-port(Default); 'blacklist-src': Blacklist-src from well-known src-port; 'ignore': Ignore well-known src-port;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: known-resp-src-port-action and known-resp-src-port-action-list-name are mutually exclusive

known-resp-src-port-action-list-name

Description Configure action-list to take for well-known src-port

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: known-resp-src-port-action-list-name and known-resp-src-port-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_tcp-list_zero-win-cfg

Specification	Value
Type	*object*

zero-win

Description Take action if zero window pkts exceed configured threshold

Type: number

Range: 1-250

Mutual Exclusion: zero-win and per-conn-zero-win-rate-limit are mutually exclusive

zero-win-action

Description 'drop': Drop packets for zero-win exceed (Default); 'blacklist-src': help Blacklist-src for zero-win exceed; 'ignore': Ignore zero-win exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: zero-win-action and zero-win-action-list-name are mutually exclusive

zero-win-action-list-name

Description Configure action-list to take for zero window exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: zero-win-action-list-name and zero-win-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_tcp-list_per-conn-out-of-seq-rate-cfg

Specification	Value
Type	*object*

per-conn-out-of-seq-rate-action

Description 'drop': Drop packets for out-of-seq rate exceed (Default); 'blacklist-src': help Blacklist-src for out-of-seq rate exceed; 'ignore': help Ignore out-of-seq rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-out-of-seq-rate-action and per-conn-out-of-seq-rate-action-list-name are mutually exclusive

per-conn-out-of-seq-rate-action-list-name

Description Configure action-list to take for out-of-seq rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-out-of-seq-rate-action-list-name and per-conn-out-of-seq-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-out-of-seq-rate-limit

Description Take action if out-of-seq pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-out-of-seq-rate-limit and out-of-seq are mutually exclusive

zone-template_tcp-list_out-of-seq-cfg

Specification	Value
Type	*object*

out-of-seq

Description Take action if out-of-seq pkts exceed configured threshold

Type: number

Range: 1-64000

Mutual Exclusion: out-of-seq and per-conn-out-of-seq-rate-limit are mutually exclusive

out-of-seq-action

Description 'drop': Drop packets for out-of-seq exceed (Default); 'blacklist-src': help Blacklist-src for out-of-seq exceed; 'ignore': help Ignore out-of-seq exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: out-of-seq-action and out-of-seq-action-list-name are mutually exclusive

out-of-seq-action-list-name

Description Configure action-list to take for out-of-seq exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: out-of-seq-action-list-name and out-of-seq-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_tcp-list_small-win-cfg

Specification	Value
Type	*object*

small-window

Description Smallest allowed window size

Type: number

Range: 1-65535

small-window-action

Description 'drop': Drop packets for small-window exceed (Default); 'blacklist-src': help Blacklist-src for small-window exceed; 'ignore': Ignore small-window exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: small-window-action and small-window-action-list-name are mutually exclusive

small-window-action-list-name

Description Configure action-list to take for small window exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: small-window-action-list-name and small-window-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

small-window-threshold

Description Take action if small window pkts exceed configured threshold

Type: number

Range: 1-250

zone-template_quic-list

Specification	Value
Type	*list*
Block object keys	

action-on-initial

Description: action-on-initial is a **JSON Block**. Please see below for *zone-template_quic-list_action-on-initial*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/action-on-initial*

create-conn-on-initial-only

Description Create connection on QUIC Initial Packets Only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fixed-bit-check-disable

Description Disable fixed-bit malform check

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pkt-rate-cfg

Description: pkt-rate-cfg is a **JSON Block**. Please see below for *zone-template_quic-list_pkt-rate-cfg*

Type: Object

quic-tmpl-name

Description DDOS QUIC Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

version-supported-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}*

zone-template_quic-list_version-supported-list

Specification	Value
Type	*list*
Block object keys	

malformed-check

Description: malformed-check is a **JSON Block**. Please see below for *zone-template_quic-list_version-supported-list_malformed-check*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}/malformed-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

version-action

Description 'drop': Drop packets; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: version-action and version-action-list-name are mutually exclusive

version-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: version-action-list-name and version-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

version-end

Description Version supported range end

Type: string

Format: time

Maximum Length: 4294967295 characters

Maximum Length: 1 characters

version-start

Description Configure versions supported

Type: string

Format: time

Maximum Length: 4294967295 characters

Maximum Length: 1 characters

zone-template_quic-list_version-supported-list_malformed-check

Specification	Value
Type	*object*

malformed-check-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: malformed-check-action and malformed-check-action-list-name are mutually exclusive

malformed-check-action-list-name

Description Configure action-list to take. Overwrites version action

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: malformed-check-action-list-name and malformed-check-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

malformed-enable

Description 'enable': Enable malformed check;

Type: string

Supported Values: enable

Default: enable

max-destination-cid-length

Description Set the maximum destination CID length

Type: number

Range: 0-255

Default: 255

max-source-cid-length

Description Set the maximum source CID length

Type: number

Range: 0-255

Default: 255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_quic-list_pkt-rate-cfg

Specification	Value
Type	*object*

per

Description 'aead-tag': AEAD Tag; 'dcid': Destination Connection ID;

Type: string

Supported Values: aead-tag, dcid

quic-pkt-rate

Description Limiting rate (Range: 5-16000000)

Type: number

Range: 5-16000000

quic-pkt-rate-limit

Description QUIC Packet Rate Limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-template_quic-list_action-on-initial

Specification	Value
Type	*object*

retry-token-authentication-dynamic

Description 'cid-hash': Dynamic retry token based on Destination and Source CID;

Type: string

Supported Values: cid-hash

Mutual Exclusion: retry-token-authentication-dynamic and retry-token-authentication-static are mutually exclusive

retry-token-authentication-static

Description Static retry token (Maximum of 4 bytes)

Type: string

Format: time

Maximum Length: 4294967295 characters

Maximum Length: 1 characters

Mutual Exclusion: retry-token-authentication-static and retry-token-authentication-dynamic are mutually exclusive

retry-unauthenticated-initial-decrypt

Description Decrypt incoming initial packets for unauthenticated clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

scid-length

Description Set Max SCID length for SCID generation

Type: number

Range: 8-20

Default: 20

unauth-short-hdr-action

Description 'drop': Drop short header packet;

Type: string

Supported Values: drop

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_ssl-l4-list

Specification	Value
Type	*list*
Block object keys	

allow-non-tls

Description Allow Non-TLS (SSLv3 and lower) traffic (Warning: security may be compromised)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-handshake

Description: auth-handshake is a **JSON Block**. Please see below for *zone-template_ssl-l4-list_auth-handshake*

Type: Object

disable

Description Disable this template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst

Description: dst is a **JSON Block**. Please see below for *zone-template_ssl-l4-list_dst*

Type: Object

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *zone-template_ssl-l4-list_multi-pu-threshold-distribution*

Type: Object

renegotiation

Description: renegotiation is a **JSON Block**. Please see below for *zone-template_ssl-l4-list_renegotiation*

Type: Object

src

Description: src is a **JSON Block**. Please see below for *zone-template_ssl-l4-list_src*

Type: Object

ssl-handshake-policy

Description: ssl-handshake-policy is a **JSON Block**. Please see below for *zone-template_ssl-l4-list_ssl-handshake-policy*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy*

ssl-l4-tmpl-name

Description DDOS SSL-L4 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-traffic-check

Description: ssl-traffic-check is a **JSON Block**. Please see below for *zone-template_ssl-l4-list_ssl-traffic-check*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_ssl-l4-list_auth-handshake

Specification	Value
Type	*object*

auth-handshake-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: auth-handshake-fail-action and auth-handshake-fail-action-list-name are mutually exclusive

auth-handshake-fail-action-list-name

Description Configure action-list to take for failing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: auth-handshake-fail-action-list-name and auth-handshake-fail-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

auth-handshake-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: auth-handshake-pass-action and auth-handshake-pass-action-list-name are mutually exclusive

auth-handshake-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: auth-handshake-pass-action-list-name and auth-handshake-pass-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

auth-handshake-timeout

Description Connection timeout (default 5 seconds) and trials (default 5 times) (DST support only)

Type: number

Range: 1-31

Default: 5

auth-handshake-trials

Description Number of failed handshakes before entry marked black

Type: number

Range: 0-15

Default: 5

cert-cfg

Description: cert-cfg is a **JSON Block**. Please see below for *zone-template_ssl-l4-list_auth-handshake_cert-cfg*

Type: Object

server-name-list

Type: List

zone-template_ssl-l4-list_auth-handshake_cert-cfg

Specification	Value
Type	*object*

cert

Description SSL certificate

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

key

Description SSL key

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

key-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED password string)

key-passphrase

Description Password Phrase

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-template_ssl-l4-list_auth-handshake_server-name-list

Specification	Value
Type	*list*
Block object keys	

server-cert

Description Server Certificate associated to SNI (Server Certificate Name)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED password string)

server-key

Description Server Private Key associated to SNI (Server Private Key Name)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-name

Description Server name indication in Client hello extension (Server name String)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-passphrase

Description Password Phrase

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-template_ssl-l4-list_src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *zone-template_ssl-l4-list_src_rate-limit*

Type: Object

zone-template_ssl-l4-list_src_rate-limit

Specification	Value
Type	*object*

request

Description: request is a **JSON Block**. Please see below for *zone-template_ssl-l4-list_src_rate-limit_request*

Type: Object

zone-template_ssl-l4-list_src_rate-limit_request

Specification	Value
Type	*object*

src-request-rate-limit

Description

Type: number

Range: 1-16000000

src-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, reset

Mutual Exclusion: src-request-rate-limit-action and src-request-rate-limit-action-list-name are mutually exclusive

src-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-request-rate-limit-action-list-name and src-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_ssl-l4-list_dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *zone-template_ssl-l4-list_dst_rate-limit*

Type: Object

zone-template_ssl-l4-list_dst_rate-limit

Specification	Value
Type	*object*

request

Description: request is a **JSON Block**. Please see below for *zone-template_ssl-l4-list_dst_rate-limit_request*

Type: Object

zone-template_ssl-l4-list_dst_rate-limit_request

Specification	Value
Type	*object*

dst-request-rate-limit

Description

Type: number

Range: 1-16000000

dst-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, reset

Mutual Exclusion: dst-request-rate-limit-action and dst-request-rate-limit-action-list-name are mutually exclusive

dst-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-request-rate-limit-action-list-name and dst-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_ssl-l4-list_ssl-traffic-check

Specification	Value
Type	*object*

check-resumed-connection

Description Apply checks to SSL connections initialized by ACK packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

header-action

Description 'drop': Drop packets with bad ssl header; 'ignore': Forward packets with bad ssl header;

Type: string

Supported Values: drop, ignore

header-inspection

Description Inspect ssl header

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_ssl-l4-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

zone-template_ssl-l4-list_renegotiation

Specification	Value
Type	*object*

num-renegotiation

Description Number of renegotiation allowed

Type: number

Range: 0-7

ssl-l4-reneg-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: ssl-l4-reneg-action and ssl-l4-reneg-action-list-name are mutually exclusive

ssl-l4-reneg-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4-reneg-action-list-name and ssl-l4-reneg-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_ssl-l4-list_ssl-handshake-policy

Specification	Value
Type	*object*

action

Description 'drop': Drop packets (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist source IP;

Type: string

Supported Values: drop, reset, blacklist-src

Mutual Exclusion: action and ssl-handshake-policy-action-list-name are mutually exclusive

cipher-suites-limit

Description Set cipher suites limit

Type: number

Range: 1-600

client-extensions-limit

Description Set client extensions limit

Type: number

Range: 1-600

clienthello-to-appdata-timeout

Description Set maximum timeout seconds from ClientHello to App-Data

Type: number

Range: 1-600

finished-to-appdata-timeout

Description Set maximum timeout seconds from Handshake finished to App-Data

Type: number

Range: 1-600

src-handshaking-conn-limit

Description Set handshaking connection limit

Type: number

Range: 1-16000000

ssl-handshake-policy-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-handshake-policy-action-list-name and action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_ip-proto-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/ip-proto/{name}/filter/{other-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

name

Description DDOS Ip-proto Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_ip-proto-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Mutual Exclusion: other-filter-action and other-filter-action-list-name are mutually exclusive

other-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: other-filter-action-list-name and other-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

other-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

other-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

other-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_dns-list

Specification	Value
Type	*list*
Block object keys	

allow-query-class

Description: allow-query-class is a **JSON Block**. Please see below for *zone-template_dns-list_allow-query-class*

Type: Object

allow-record-type

Description: allow-record-type is a **JSON Block**. Please see below for *zone-template_dns-list_allow-record-type*

Type: Object

dns-any-check

Description Drop DNS queries of Type ANY

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-any-check-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Default: drop

Mutual Exclusion: dns-any-check-action and dns-any-check-action-list-name are mutually exclusive

dns-any-check-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-any-check-action-list-name and dns-any-check-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dns-udp-authentication

Description: dns-udp-authentication is a **JSON Block**. Please see below for *zone-template_dns-list_dns-udp-authentication*

Type: Object

domain-group-name

Description Apply a domain-group to the DNS template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst

Description: dst is a **JSON Block**. Please see below for *zone-template_dns-list_dst*

Type: Object

fqdn-label-count-cfg

Description: fqdn-label-count-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_fqdn-label-count-cfg*

Type: Object

fqdn-label-len-cfg

Type: List

malformed-query-check

Description: malformed-query-check is a **JSON Block**. Please see below for *zone-template_dns-list_malformed-query-check*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/dns/{name}/malformed-query-check*

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *zone-template_dns-list_multi-pu-threshold-distribution*

Type: Object

name

Description DDOS DNS Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

on-no-match

Description 'permit': permit; 'deny': deny (default);

Type: string

Supported Values: permit, deny

Default: deny

src

Description: src is a **JSON Block**. Please see below for *zone-template_dns-list_src*

Type: Object

symtimeout-cfg

Description: symtimeout-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_symtimeout-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_dns-list_src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *zone-template_dns-list_src_rate-limit*

Type: Object

zone-template_dns-list_src_rate-limit

Specification	Value
Type	*object*

nxdomain

Description: nxdomain is a **JSON Block**. Please see below for *zone-template_dns-list_src_rate-limit_nxdomain*

Type: Object

request

Description: request is a **JSON Block**. Please see below for *zone-template_dns-list_src_rate-limit_request*

Type: Object

zone-template_dns-list_src_rate-limit_request

Specification	Value
Type	*object*

src-dns-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: src-dns-request-rate-limit-action and src-dns-request-rate-limit-action-list-name are mutually exclusive

src-dns-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-dns-request-rate-limit-action-list-name and src-dns-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type

Description: type is a **JSON Block**. Please see below for *zone-template_dns-list_src_rate-limit_request_type*

Type: Object

zone-template_dns-list_src_rate-limit_request_type

Specification	Value
Type	*object*

A-cfg

Description: A-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_src_rate-limit_request_type_A-cfg*

Type: Object

AAAA-cfg

Description: AAAA-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_src_rate-limit_request_type_AAAA-cfg*

Type: Object

CNAME-cfg

Description: CNAME-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_src_rate-limit_request_type_CNAME-cfg*

Type: Object

MX-cfg

Description: MX-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_src_rate-limit_request_type_MX-cfg*

Type: Object

NS-cfg

Description: NS-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_src_rate-limit_request_type_NS-cfg*

Type: Object

SRV-cfg

Description: SRV-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_src_rate-limit_request_type_SRV-cfg*

Type: Object

dns-type-cfg

Type: List

zone-template_dns-list_src_rate-limit_request_type_SRV-cfg

Specification	Value
Type	*object*

SRV

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-srv-rate

Description DNS request rate

Type: number

Range: 1-16000000

zone-template_dns-list_src_rate-limit_request_type_CNAME-cfg

Specification	Value
Type	*object*

CNAME

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-cname-rate

Description

Type: number

Range: 1-16000000

zone-template_dns-list_src_rate-limit_request_type_dns-type-cfg

Specification	Value
Type	*list*
Block object keys	

src-dns-request-type

Description Other type value

Type: number

Range: 1-65535

src-dns-request-type-rate

Description request rate limit

Type: number

Range: 1-16000000

zone-template_dns-list_src_rate-limit_request_type_AAAA-cfg

Specification	Value
Type	*object*

AAAA

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-aaaa-rate

Description

Type: number

Range: 1-16000000

zone-template_dns-list_src_rate-limit_request_type_A-cfg

Specification	Value
Type	*object*

A

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-a-rate

Description

Type: number

Range: 1-16000000

zone-template_dns-list_src_rate-limit_request_type_MX-cfg

Specification	Value
Type	*object*

MX

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-mx-rate

Description

Type: number

Range: 1-16000000

zone-template_dns-list_src_rate-limit_request_type_NS-cfg

Specification	Value
Type	*object*

NS

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-ns-rate

Description

Type: number

Range: 1-16000000

zone-template_dns-list_src_rate-limit_nxdomain

Specification	Value
Type	*object*

dns-nxdomain-rate

Description Limiting rate

Type: number

Range: 1-16000000

dns-nxdomain-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: dns-nxdomain-rate-limit-action and dns-nxdomain-rate-limit-action-list-name are mutually exclusive

dns-nxdomain-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-nxdomain-rate-limit-action-list-name and dns-nxdomain-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_dns-list_fqdn-label-count-cfg

Specification	Value
Type	*object*

fqdn-label-count-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Send reset to client;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: fqdn-label-count-action and fqdn-label-count-action-list-name are mutually exclusive

fqdn-label-count-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fqdn-label-count-action-list-name and fqdn-label-count-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

label-count

Description Maximum number of FQDN labels per FQDN

Type: number

Range: 1-10

zone-template_dns-list_malformed-query-check

Specification	Value
Type	*object*

dns-malformed-query-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: dns-malformed-query-action and dns-malformed-query-action-list-name are mutually exclusive

dns-malformed-query-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-malformed-query-action-list-name and dns-malformed-query-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

non-query-opcode-check

Description 'disable': When malform check is enabled, TPS always drops DNS query with non query opcode, this option disables this opcode check;

Type: string

Supported Values: disable

skip-multi-packet-check

Description Bypass DNS fragmented and TCP segmented Queries(Default: dropped)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

validation-type

Description 'basic-header-check': Basic header validation for DNS TCP/UDP queries; 'extended-header-check': Extended header/query validation for DNS TCP/UDP queries; 'disable': Disable Malform query validation for DNS TCP/UDP;

Type: string

Supported Values: basic-header-check, extended-header-check, disable

zone-template_dns-list_dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *zone-template_dns-list_dst_rate-limit*

Type: Object

zone-template_dns-list_dst_rate-limit

Specification	Value
Type	*object*

domain-group-rate-exceed-action

Description 'drop': Drop the query (default); 'tunnel-encap-packet': Encapsulate the query and send on a tunnel;

Type: string

Supported Values: drop, tunnel-encap-packet

Default: drop

domain-group-rate-per-service

Description Enable per service domain rate checking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encap-template

Description DDOS encap template to sepcify the tunnel endpoint

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/zone-template/encap*

fqdn

Description: fqdn is a **JSON Block**. Please see below for *zone-template_dns-list_dst_rate-limit_fqdn*

Type: Object

request

Description: request is a **JSON Block**. Please see below for *zone-template_dns-list_dst_rate-limit_request*

Type: Object

zone-template_dns-list_dst_rate-limit_request

Specification	Value
Type	*object*

dst-dns-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Mutual Exclusion: dst-dns-request-rate-limit-action and dst-dns-request-rate-limit-action-list-name are mutually exclusive

dst-dns-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-dns-request-rate-limit-action-list-name and dst-dns-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type

Description: type is a **JSON Block**. Please see below for *zone-template_dns-list_dst_rate-limit_request_type*

Type: Object

zone-template_dns-list_dst_rate-limit_request_type

Specification	Value
Type	*object*

A-cfg

Description: A-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_dst_rate-limit_request_type_A-cfg*

Type: Object

AAAA-cfg

Description: AAAA-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_dst_rate-limit_request_type_AAAA-cfg*

Type: Object

CNAME-cfg

Description: CNAME-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_dst_rate-limit_request_type_CNAME-cfg*

Type: Object

MX-cfg

Description: MX-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_dst_rate-limit_request_type_MX-cfg*

Type: Object

NS-cfg

Description: NS-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_dst_rate-limit_request_type_NS-cfg*

Type: Object

SRV-cfg

Description: SRV-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_dst_rate-limit_request_type_SRV-cfg*

Type: Object

dns-type-cfg

Type: List

zone-template_dns-list_dst_rate-limit_request_type_SRV-cfg

Specification	Value
Type	*object*

SRV

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-srv-rate

Description DNS request rate

Type: number

Range: 1-16000000

zone-template_dns-list_dst_rate-limit_request_type_CNAME-cfg

Specification	Value
Type	*object*

CNAME

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-cname-rate

Description

Type: number

Range: 1-16000000

zone-template_dns-list_dst_rate-limit_request_type_dns-type-cfg

Specification	Value
Type	*list*
Block object keys	

dns-request-type

Description Other type value

Type: number

Range: 1-65535

dns-request-type-rate

Description request rate limit

Type: number

Range: 1-16000000

zone-template_dns-list_dst_rate-limit_request_type_AAAA-cfg

Specification	Value
Type	*object*

AAAA

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-aaaa-rate

Description

Type: number

Range: 1-16000000

zone-template_dns-list_dst_rate-limit_request_type_A-cfg

Specification	Value
Type	*object*

A

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-a-rate

Description

Type: number

Range: 1-16000000

zone-template_dns-list_dst_rate-limit_request_type_MX-cfg

Specification	Value
Type	*object*

MX

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-mx-rate

Description

Type: number

Range: 1-16000000

zone-template_dns-list_dst_rate-limit_request_type_NS-cfg

Specification	Value
Type	*object*

NS

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-ns-rate

Description

Type: number

Range: 1-16000000

zone-template_dns-list_dst_rate-limit_fqdn

Specification	Value
Type	*object*

dns-fqdn-rate-cfg

Type: List

dns-fqdn-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Mutual Exclusion: dns-fqdn-rate-limit-action and dns-fqdn-rate-limit-action-list-name are mutually exclusive

dns-fqdn-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-fqdn-rate-limit-action-list-name and dns-fqdn-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_dns-list_dst_rate-limit_fqdn_dns-fqdn-rate-cfg

Specification	Value
Type	*list*
Block object keys	

dns-fqdn-rate

Description Limiting rate (Range: 5-8000 for FQDN domain based rate limiting, 5-16000000 for FQDN label count based rate limiting)

Type: number

Range: 5-16000000

fqdn-rate-label-count

Description FQDN label count (Range: 1-8)

Type: number

Range: 1-8

fqdn-rate-suffix

Description Suffix count

Type: number

Range: 1-5

per

Description 'domain-name': Domain Name; 'src-ip': Source IP address; 'label-count': FQDN label count;

Type: string

Supported Values: domain-name, src-ip, label-count

per-domain-per-src-ip

Description Use both Domain Name and Source IP address for rate-limiting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-template_dns-list_allow-record-type

Specification	Value
Type	*object*

allow-a-type

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-aaaa-type

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-cname-type

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-mx-type

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-ns-type

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-record-type-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: allow-record-type-action and allow-record-type-action-list-name are mutually exclusive

allow-record-type-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: allow-record-type-action-list-name and allow-record-type-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

allow-srv-type

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

record-num-cfg

Type: List

zone-template_dns-list_allow-record-type_record-num-cfg

Specification	Value
Type	*list*
Block object keys	

allow-num-type

Description Other record type value

Type: number

Range: 1-65535

zone-template_dns-list_allow-query-class

Specification	Value
Type	*object*

allow-any-query-class

Description ANY query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-chaos-query-class

Description CHAOS query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-csnet-query-class

Description CSNET query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-hesiod-query-class

Description HESIOD query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-internet-query-class

Description INTERNET query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-none-query-class

Description NONE query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-query-class-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: allow-query-class-action and allow-query-class-action-list-name are mutually exclusive

allow-query-class-action-list-name

Description Configure action-list to take when query class doesn't match

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: allow-query-class-action-list-name and allow-query-class-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_dns-list_dns-udp-authentication

Specification	Value
Type	*object*

dns-udp-auth-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: dns-udp-auth-fail-action and dns-udp-auth-fail-action-list-name are mutually exclusive

dns-udp-auth-fail-action-list-name

Description Configure action-list to take for failing the authentication. (Applicable to dns-udp retry only)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-udp-auth-fail-action-list-name and dns-udp-auth-fail-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dns-udp-auth-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: dns-udp-auth-pass-action and dns-udp-auth-pass-action-list-name are mutually exclusive

dns-udp-auth-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-udp-auth-pass-action-list-name and dns-udp-auth-pass-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

force-tcp-cfg

Description: force-tcp-cfg is a **JSON Block**. Please see below for *zone-template_dns-list_dns-udp-authentication_force-tcp-cfg*

Type: Object

min-delay

Description Optional minimum delay between DNS retransmits for authentication to pass, unit is specified by min-delay-interval

Type: number

Range: 1-80

Mutual Exclusion: min-delay and force-tcp are mutually exclusive

min-delay-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

udp-timeout

Description UDP authentication timeout in seconds

Type: number

Range: 1-16

Mutual Exclusion: udp-timeout and force-tcp are mutually exclusive

zone-template_dns-list_dns-udp-authentication_force-tcp-cfg

Specification	Value
Type	*object*

force-tcp

Description Force DNS request over TCP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: force-tcp, udp-timeout, and min-delay are mutually exclusive

force-tcp-ignore-client-source-port

Description Allow client to retransmit DNS request using different source port during udp-auth (supported in asymmetric mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force-tcp-min-delay

Description Optional minimum delay (seconds) between DNS retransmits for authentication to pass

Type: number

Range: 1-15

force-tcp-timeout

Description UDP authentication timeout in seconds

Type: number

Range: 1-16

zone-template_dns-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

zone-template_dns-list_fqdn-label-len-cfg

Specification	Value
Type	*list*
Block object keys	

fqdn-label-length-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: fqdn-label-length-action and fqdn-label-length-action-list-name are mutually exclusive

fqdn-label-length-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fqdn-label-length-action-list-name and fqdn-label-length-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

fqdn-label-suffix

Description Number of suffixes

Type: number

Range: 1-5

label-length

Description Maximum length of FQDN label

Type: number

Range: 1-63

zone-template_dns-list_symtimeout-cfg

Specification	Value
Type	*object*

sym-timeout

Description Timeout for DNS Symmetric session

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sym-timeout-value

Description Session timeout value in seconds

Type: number

Range: 1-31

zone-template_icmp-v4-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/filter/{icmp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

icmp-tmpl-name

Description DDOS ICMPv4 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type/{type-number}*

type-other

Description: type-other is a **JSON Block**. Please see below for *zone-template_icmp-v4-list_type-other*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type-other*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_icmp-v4-list_type-list

Specification	Value
Type	*list*
Block object keys	

dst-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

dst-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-other-rate-action and dst-code-other-rate-action-list-name are mutually exclusive

dst-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-other-rate-action-list-name and dst-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-type-action

Description 'drop': Reject this ICMP type; 'blacklist-src': Blacklist-src this ICMP type; 'ignore': Ignore this ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-action and icmp-type-action-list-name are mutually exclusive

icmp-type-action-list-name

Description Configure action-list to take for this ICMP type

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-action-list-name and icmp-type-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

src-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-other-rate-action and src-code-other-rate-action-list-name are mutually exclusive

src-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-other-rate-action-list-name and src-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-dst-code-cfg

Type: List

v4-dst-rate-cfg

Description: v4-dst-rate-cfg is a **JSON Block**. Please see below for *zone-template_icmp-v4-list_type-list_v4-dst-rate-cfg*

Type: Object

v4-src-code-cfg

Type: List

v4-src-rate-cfg

Description: v4-src-rate-cfg is a **JSON Block**. Please see below for *zone-template_icmp-v4-list_type-list_v4-src-rate-cfg*

Type: Object

zone-template_icmp-v4-list_type-list_v4-src-rate-cfg

Specification	Value
Type	*object*

src-type-rate

Description Specify the whole src rate for this type

Type: number

Range: 1-16000000

src-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-rate-action and src-type-rate-action-list-name are mutually exclusive

src-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-rate-action-list-name and src-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_icmp-v4-list_type-list_v4-dst-code-cfg

Specification	Value
Type	*list*
Block object keys	

dst-code-number

Description Specify the ICMP code for this dst rate

Type: number

Range: 0-255

dst-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

dst-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-rate-action and dst-code-rate-action-list-name are mutually exclusive

dst-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-rate-action-list-name and dst-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_icmp-v4-list_type-list_v4-src-code-cfg

Specification	Value
Type	*list*
Block object keys	

src-code-number

Description Specify the ICMP code for this src rate

Type: number

Range: 0-255

src-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

src-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-rate-action and src-code-rate-action-list-name are mutually exclusive

src-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-rate-action-list-name and src-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_icmp-v4-list_type-list_v4-dst-rate-cfg

Specification	Value
Type	*object*

dst-type-rate

Description Specify the whole dst rate for this type

Type: number

Range: 1-16000000

dst-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-rate-action and dst-type-rate-action-list-name are mutually exclusive

dst-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-rate-action-list-name and dst-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_icmp-v4-list_type-other

Specification	Value
Type	*object*

dst

Description: dst is a **JSON Block**. Please see below for *zone-template_icmp-v4-list_type-other_dst*

Type: Object

icmp-type-other-action

Description 'drop': Reject wildcard ICMP type; 'blacklist-src': Blacklist-src wildcard ICMP type; 'ignore': Ignore wildcard ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-other-action and icmp-type-other-action-list-name are mutually exclusive

icmp-type-other-action-list-name

Description Configure action-list to take for wildcard ICMP match

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-other-action-list-name and icmp-type-other-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src

Description: src is a **JSON Block**. Please see below for *zone-template_icmp-v4-list_type-other_src*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_icmp-v4-list_type-other_src

Specification	Value
Type	*object*

src-type-other-rate

Description Specify the whole src rate for wildcard ICMP type

Type: number

Range: 1-16000000

src-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-other-rate-action and src-type-other-rate-action-list-name are mutually exclusive

src-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-other-rate-action-list-name and src-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_icmp-v4-list_type-other_dst

Specification	Value
Type	*object*

dst-type-other-rate

Description Specify the whole dst rate for wildcard ICMP type

Type: number

Range: 1-16000000

dst-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-other-rate-action and dst-type-other-rate-action-list-name are mutually exclusive

dst-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-other-rate-action-list-name and dst-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_icmp-v4-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description filter using Berkeley packet filter syntax

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

icmp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, blacklist-src

Default: drop

Mutual Exclusion: icmp-filter-action and icmp-filter-action-list-name are mutually exclusive

icmp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-filter-action-list-name and icmp-filter-action are mutually exclusive

icmp-filter-inverse-match

Description Inverse the result of matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

icmp-filter-seq

Description sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_encap-list

Specification	Value
Type	*list*
Block object keys	

encap-tmpl-name

Description DDOS Tunnel Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

preserve-source-ip

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap

Description: tunnel-encap is a **JSON Block**. Please see below for *zone-template_encap-list_tunnel-encap*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_encap-list_tunnel-encap

Specification	Value
Type	*object*

gre-cfg

Description: gre-cfg is a **JSON Block**. Please see below for *zone-template_encap-list_tunnel-encap_gre-cfg*

Type: Object

ip-cfg

Description: ip-cfg is a **JSON Block**. Please see below for *zone-template_encap-list_tunnel-encap_ip-cfg*

Type: Object

zone-template_encap-list_tunnel-encap_ip-cfg

Specification	Value
Type	*object*

always

Description: always is a **JSON Block**. Please see below for *zone-template_encap-list_tunnel-encap_ip-cfg_always*

Type: Object

ip-encap

Description Enable Tunnel encapsulation using IP in IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-template_encap-list_tunnel-encap_ip-cfg_always

Specification	Value
Type	*object*

ipv4-addr

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

ipv6-addr

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

zone-template_encap-list_tunnel-encap_gre-cfg

Specification	Value
Type	*object*

gre-always

Description: gre-always is a **JSON Block**. Please see below for *zone-template_encap-list_tunnel-encap_gre-cfg_gre-always*

Type: Object

gre-encap

Description Enable Tunnel encapsulation using GRE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-template_encap-list_tunnel-encap_gre-cfg_gre-always

Specification	Value
Type	*object*

gre-ipv4

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

gre-ipv6

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

key-ipv4

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

key-ipv6

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

zone-template_udp-list

Specification	Value
Type	*list*
Block object keys	

age

Description Configure session age(in minutes) for UDP sessions

Type: number

Range: 1-63

Default: 2

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/udp/{name}/filter/{udp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

known-resp-src-port-cfg

Description: known-resp-src-port-cfg is a **JSON Block**. Please see below for *zone-template_udp-list_known-resp-src-port-cfg*

Type: Object

max-payload-size-cfg

Description: max-payload-size-cfg is a **JSON Block**. Please see below for *zone-template_udp-list_max-payload-size-cfg*

Type: Object

min-payload-size-cfg

Description: min-payload-size-cfg is a **JSON Block**. Please see below for *zone-template_udp-list_min-payload-size-cfg*

Type: Object

name

Description DDOS UDP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ntp-monlist-cfg

Description: ntp-monlist-cfg is a **JSON Block**. Please see below for *zone-template_udp-list_ntp-monlist-cfg*

Type: Object

per-conn-pkt-rate-cfg

Description: per-conn-pkt-rate-cfg is a **JSON Block**. Please see below for *zone-template_udp-list_per-conn-pkt-rate-cfg*

Type: Object

per-conn-rate-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

previous-salt-timeout

Description Token-Authentication previous salt-prefix timeout in minutes, default is 1 min

Type: number

Range: 1-10080

Default: 1

public-ipv4-addr

Description IP address

Type: string

Format: ipv4-address

public-ipv6-addr

Description IPV6 address

Type: string

Format: ipv6-address

spoof-detect-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src for spoof-detect fail;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: spoof-detect-fail-action and spoof-detect-fail-action-list-name are mutually exclusive

spoof-detect-fail-action-list-name

Description Configure action-list to take for failing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: spoof-detect-fail-action-list-name and spoof-detect-fail-action are mutually exclusive

spoof-detect-min-delay

Description Optional minimum delay between UDP retransmits for authentication to pass, unit is specified by min-delay-interval

Type: number

Range: 1-80

spoof-detect-min-delay-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

spoof-detect-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: spoof-detect-pass-action and spoof-detect-pass-action-list-name are mutually exclusive

spoof-detect-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: spoof-detect-pass-action-list-name and spoof-detect-pass-action are mutually exclusive

spoof-detect-retry-timeout

Description Timeout in seconds

Type: number

Range: 1-31

token-authentication

Description Enable Token Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-formula

Description 'md5_Salt-SrcIp-SrcPort-DstIp-DstPort': md5 of Salt-SrcIp-SrcPort-DstIp-DstPort; 'md5_Salt-DstIp-DstPort': md5 of Salt-DstIp-DstPort; 'md5_Salt-SrcIp-DstIp': md5 of Salt-SrcIp-DstIp; 'md5_Salt-SrcPort-DstPort': md5 of Salt-SrcPort-DstPort; 'md5_Salt-UintDstIp-DstPort': Using the uint value of IP for md5 of Salt-DstIp-DstPort; 'sha1_Salt-SrcIp-SrcPort-DstIp-DstPort': sha1 of Salt-SrcIp-SrcPort-DstIp-DstPort; 'sha1_Salt-DstIp-DstPort':

sha1 of Salt-DstIp-DstPort; 'sha1_Salt-SrcIp-DstIp': sha1 of Salt-SrcIp-DstIp; 'sha1_Salt-SrcPort-DstPort': sha1 of Salt-SrcPort-DstPort; 'sha1_Salt-UintDstIp-DstPort': Using the uint value of IP for sha1 of Salt-DstIp-DstPort;

Type: string

Supported Values: md5_Salt-SrcIp-SrcPort-DstIp-DstPort, md5_Salt-DstIp-DstPort, md5_Salt-SrcIp-DstIp, md5_Salt-SrcPort-DstPort, md5_Salt-UintDstIp-DstPort, sha1_Salt-SrcIp-SrcPort-DstIp-DstPort, sha1_Salt-DstIp-DstPort, sha1_Salt-SrcIp-DstIp, sha1_Salt-SrcPort-DstPort, sha1_Salt-UintDstIp-DstPort

token-authentication-hw-assist-disable

Description token-authentication disable hardware assistance

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-public-address

Description The server public IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-salt-prefix

Description token-authentication salt-prefix

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-salt-prefix-curr

Description

Type: number

Range: 1-4294967295

token-authentication-salt-prefix-prev

Description

Type: number

Range: 1-4294967295

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_udp-list_ntp-monlist-cfg

Specification	Value
Type	*object*

ntp-monlist

Description Take action for ntp monlist request/response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ntp-monlist-action

Description 'drop': Drop packets for ntp-monlist (Default); 'blacklist-src': Blacklist-src for ntp-monlist; 'ignore': Ignore ntp-monlist;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: ntp-monlist-action and ntp-monlist-action-list-name are mutually exclusive

ntp-monlist-action-list-name

Description Configure action-list to take for ntp-monlist

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ntp-monlist-action-list-name and ntp-monlist-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_udp-list_known-resp-src-port-cfg

Specification	Value
Type	*object*

exclude-src-resp-port

Description Exclude src port equal to dst port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

known-resp-src-port

Description Take action if src-port is less than 1024

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

known-resp-src-port-action

Description 'drop': Drop packets from well-known src-port(Default); 'blacklist-src': Blacklist-src from well-known src-port; 'ignore': Ignore well-known src-port;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: known-resp-src-port-action and known-resp-src-port-action-list-name are mutually exclusive

known-resp-src-port-action-list-name

Description Configure action-list to take for well-known src-port

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: known-resp-src-port-action-list-name and known-resp-src-port-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_udp-list_per-conn-pkt-rate-cfg

Specification	Value
Type	*object*

per-conn-pkt-rate-action

Description 'drop': Drop packets for per-conn-pkt-rate exceed (Default); 'blacklist-src': help Blacklist-src for per-conn-pkt-rate exceed; 'ignore': Ignore per-conn-pkt-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-pkt-rate-action and per-conn-pkt-rate-action-list-name are mutually exclusive

per-conn-pkt-rate-action-list-name

Description Configure action-list to take for per-conn-pkt-rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-pkt-rate-action-list-name and per-conn-pkt-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-pkt-rate-limit

Description Packet rate limit per connection per rate-interval

Type: number

Range: 1-16000000

zone-template_udp-list_min-payload-size-cfg

Specification	Value
Type	*object*

min-payload-size

Description Minimum UDP payload size for each single packet

Type: number

Range: 1-1470

min-payload-size-action

Description 'drop': Drop packets for min-payload-size (Default); 'blacklist-src': Blacklist-src for min-payload-size; 'ignore': Do nothing for min-payload-size exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: min-payload-size-action and min-payload-size-action-list-name are mutually exclusive

min-payload-size-action-list-name

Description Configure action-list to take for min-payload-size exceed

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

Mutual Exclusion: min-payload-size-action-list-name and min-payload-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_udp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Default: drop

Mutual Exclusion: udp-filter-action and udp-filter-action-list-name are mutually exclusive

udp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp-filter-action-list-name and udp-filter-action are mutually exclusive

udp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_udp-list_max-payload-size-cfg

Specification	Value
Type	*object*

max-payload-size

Description Maximum UDP payload size for each single packet

Type: number

Range: 1-1470

max-payload-size-action

Description 'drop': Drop packets for max-payload-size exceed (Default); 'blacklist-src': Blacklist-src for max-payload-size exceed; 'ignore': Do nothing for max-payload-size exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: max-payload-size-action and max-payload-size-action-list-name are mutually exclusive

max-payload-size-action-list-name

Description Configure action-list to take for max-payload-size exceed

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

Mutual Exclusion: max-payload-size-action-list-name and max-payload-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_http-list

Specification	Value
Type	*list*
Block object keys	

challenge

Description: challenge is a **JSON Block**. Please see below for *zone-template_http-list_challenge*

Type: Object

client-source-ip

Description: client-source-ip is a **JSON Block**. Please see below for *zone-template_http-list_client-source-ip*

Type: Object

disable

Description Disable this template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disallow-connect-method

Description Do not allow HTTP Connect method (asymmetric mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst

Description: dst is a **JSON Block**. Please see below for *zone-template_http-list_dst*

Type: Object

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/http/{http-tmpl-name}/filter/{http-filter-name}*

http-tmpl-name

Description DDOS HTTP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

idle-timeout

Description: idle-timeout is a **JSON Block**. Please see below for *zone-template_http-list_idle-timeout*

Type: Object

malformed-http

Description: malformed-http is a **JSON Block**. Please see below for *zone-template_http-list_malformed-http*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/http/{http-tmpl-name}/malformed-http*

mss-timeout

Description: mss-timeout is a **JSON Block**. Please see below for *zone-template_http-list_mss-timeout*

Type: Object

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *zone-template_http-list_multi-pu-threshold-distribution*

Type: Object

non-http-bypass

Description Bypass non-http traffic instead of dropping

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

out-of-order-queue-size

Description Set the number of packets for the out-of-order HTTP queue (asym mode only)

Type: number

Range: 0-15

Default: 3

out-of-order-queue-timeout

Description Set the timeout value in seconds for out-of-order queue in HTTP (asym mode only)

Type: number

Range: 0-15

Default: 3

request-header

Description: request-header is a **JSON Block**. Please see below for *zone-template_http-list_request-header*

Type: Object

slow-read

Description: slow-read is a **JSON Block**. Please see below for *zone-template_http-list_slow-read*

Type: Object

src

Description: src is a **JSON Block**. Please see below for *zone-template_http-list_src*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_http-list_client-source-ip

Specification	Value
Type	*object*

client-source-ip

Description Mitigate on src ip specified by http header for example X-Forwarded-For header. Default is disabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-header-name

Description Set the http header name to parse for client ip. Default is X-Forwarded-For

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: X-Forwarded-For

zone-template_http-list_dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *zone-template_http-list_dst_rate-limit*

Type: Object

zone-template_http-list_dst_rate-limit

Specification	Value
Type	*object*

http-post

Description: http-post is a **JSON Block**. Please see below for *zone-template_http-list_dst_rate-limit_http-post*

Type: Object

http-request

Description: http-request is a **JSON Block**. Please see below for *zone-template_http-list_dst_rate-limit_http-request*

Type: Object

response-size

Description: response-size is a **JSON Block**. Please see below for *zone-template_http-list_dst_rate-limit_response-size*

Type: Object

zone-template_http-list_dst_rate-limit_response-size

Specification	Value
Type	*object*

between-cfg

Type: List

greater-cfg

Type: List

less-cfg

Type: List

response-size-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: response-size-action and response-size-action-list-name are mutually exclusive

response-size-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: response-size-action-list-name and response-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_http-list_dst_rate-limit_response-size_between-cfg

Specification	Value
Type	*list*
Block object keys	

obj-between-rate

Description Response rate limit

Type: number

Range: 1-16000000

obj-between1

Description Response size configuration

Type: number

Range: 1-16000000

obj-between2

Description Response size configuration

Type: number

Range: 1-16000000

zone-template_http-list_dst_rate-limit_response-size_greater-cfg

Specification	Value
Type	*list*
Block object keys	

obj-greater

Description Response size configuration

Type: number

Range: 1-16000000

obj-greater-rate

Description Response rate limit

Type: number

Range: 1-16000000

zone-template_http-list_dst_rate-limit_response-size_less-cfg

Specification	Value
Type	*list*
Block object keys	

obj-less

Description Response size configuration

Type: number

Range: 1-16000000

obj-less-rate

Description Response rate limit

Type: number

Range: 1-16000000

zone-template_http-list_dst_rate-limit_http-post

Specification	Value
Type	*object*

dst-post-rate-limit

Description

Type: number

Range: 1-16000000

dst-post-rate-limit-action

Description 'drop': Drop packets(Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: dst-post-rate-limit-action and dst-post-rate-limit-action-list-name are mutually exclusive

dst-post-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-post-rate-limit-action-list-name and dst-post-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_http-list_dst_rate-limit_http-request

Specification	Value
Type	*object*

dst-request-rate

Description

Type: number

Range: 1-16000000

dst-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: dst-request-rate-limit-action and dst-request-rate-limit-action-list-name are mutually exclusive

dst-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-request-rate-limit-action-list-name and dst-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_http-list_src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *zone-template_http-list_src_rate-limit*

Type: Object

zone-template_http-list_src_rate-limit

Specification	Value
Type	*object*

http-post

Description: http-post is a **JSON Block**. Please see below for *zone-template_http-list_src_rate-limit_http-post*

Type: Object

http-request

Description: http-request is a **JSON Block**. Please see below for *zone-template_http-list_src_rate-limit_http-request*

Type: Object

zone-template_http-list_src_rate-limit_http-post

Specification	Value
Type	*object*

src-post-rate-limit

Description

Type: number

Range: 1-16000000

src-post-rate-limit-action

Description 'drop': Drop packets(Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: src-post-rate-limit-action and src-post-rate-limit-action-list-name are mutually exclusive

src-post-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-post-rate-limit-action-list-name and src-post-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_http-list_src_rate-limit_http-request

Specification	Value
Type	*object*

src-request-rate

Description

Type: number

Range: 1-16000000

src-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: src-request-rate-limit-action and src-request-rate-limit-action-list-name are mutually exclusive

src-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-request-rate-limit-action-list-name and src-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_http-list_challenge

Specification	Value
Type	*object*

challenge-cookie-name

Description Set the cookie name used to send back to client. Default is sto-idd

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: sto-idd

challenge-fail-action

Description 'blacklist-src': Blacklist-src; 'reset': Reset client connection(Default);

Type: string

Supported Values: blacklist-src, reset

Default: reset

Mutual Exclusion: challenge-fail-action and challenge-fail-action-list-name are mutually exclusive

challenge-fail-action-list-name

Description Configure action-list to take for failing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-fail-action-list-name and challenge-fail-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

challenge-interval

Description Specify the challenge interval. Default is 8 seconds

Type: number

Range: 1-31

Default: 8

challenge-keep-cookie

Description Keep the challenge cookie from client and forward to backend. Default is do not keep

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

challenge-method

Description 'http-redirect': http-redirect; 'javascript': javascript;

Type: string

Supported Values: http-redirect, javascript

challenge-pass-action

Description 'authenticate-src': Authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: challenge-pass-action and challenge-pass-action-list-name are mutually exclusive

challenge-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-pass-action-list-name and challenge-pass-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

challenge-redirect-code

Description '302': 302 Found; '307': 307 Temporary Redirect;

Type: string

Supported Values: 302, 307

Default: 302

challenge-uri-encode

Description Encode the challenge phrase in uri instead of in http cookie. Default encoded in http cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-template_http-list_idle-timeout

Specification	Value
Type	*object*

idle-timeout-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: idle-timeout-action and idle-timeout-action-list-name are mutually exclusive

idle-timeout-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: idle-timeout-action-list-name and idle-timeout-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

idle-timeout-value

Description Set the the idle timeout value in seconds for HTTP connections

Type: number

Range: 1-63

ignore-zero-payload

Description Don't reset idle timer on packets with zero payload length from clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-template_http-list_slow-read

Specification	Value
Type	*object*

min-window-count

Description Number of packets

Type: number

Range: 1-31

min-window-size

Description minimum window size

Type: number

Range: 1-65535

slow-read-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'ignore': Take no action; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, ignore, reset

Mutual Exclusion: slow-read-action and slow-read-action-list-name are mutually exclusive

slow-read-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: slow-read-action-list-name and slow-read-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_http-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

zone-template_http-list_filter-list

Specification	Value
Type	*list*
Block object keys	

dst

Description: dst is a **JSON Block**. Please see below for *zone-template_http-list_filter-list_dst*

Type: Object

http-agent-cfg

Description: http-agent-cfg is a **JSON Block**. Please see below for *zone-template_http-list_filter-list_http-agent-cfg*

Type: Object

http-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src, reset

Mutual Exclusion: http-filter-action and http-filter-action-list-name are mutually exclusive

http-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http-filter-action-list-name and http-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

http-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-filter-seq

Description Sequence number

Type: number

Range: 1-200

http-header-cfg

Description: http-header-cfg is a **JSON Block**. Please see below for *zone-template_http-list_filter-list_http-header-cfg*

Type: Object

http-referer-cfg

Description: http-referer-cfg is a **JSON Block**. Please see below for *zone-template_http-list_filter-list_http-referer-cfg*

Type: Object

http-uri-cfg

Description: http-uri-cfg is a **JSON Block**. Please see below for *zone-template_http-list_filter-list_http-uri-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_http-list_filter-list_http-uri-cfg

Specification	Value
Type	*object*

uri-contains-cfg

Type: List

uri-ends-cfg

Type: List

uri-equal-cfg

Type: List

uri-starts-cfg

Type: List

zone-template_http-list_filter-list_http-uri-cfg_uri-equal-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-equals

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

zone-template_http-list_filter-list_http-uri-cfg_uri-starts-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

zone-template_http-list_filter-list_http-uri-cfg_uri-ends-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

zone-template_http-list_filter-list_http-uri-cfg_uri-contains-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-contains

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

zone-template_http-list_filter-list_dst

Specification	Value
Type	*object*

http-filter-rate-limit

Description Set rate limit

Type: number

Range: 1-16000000

zone-template_http-list_filter-list_http-agent-cfg

Specification	Value
Type	*object*

agent-contains-cfg

Type: List

agent-ends-cfg

Type: List

agent-equals-cfg

Type: List

agent-starts-cfg

Type: List

zone-template_http-list_filter-list_http-agent-cfg_agent-contains-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-template_http-list_filter-list_http-agent-cfg_agent-ends-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-template_http-list_filter-list_http-agent-cfg_agent-equals-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-template_http-list_filter-list_http-agent-cfg_agent-starts-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-template_http-list_filter-list_http-header-cfg

Specification	Value
Type	*object*

http-filter-header-inverse-match

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

zone-template_http-list_filter-list_http-referer-cfg

Specification	Value
Type	*object*

referer-contains-cfg

Type: List

referer-ends-cfg

Type: List

referer-equals-cfg

Type: List

referer-starts-cfg

Type: List

zone-template_http-list_filter-list_http-referer-cfg_referer-equals-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-template_http-list_filter-list_http-referer-cfg_referer-starts-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-template_http-list_filter-list_http-referer-cfg_referer-contains-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-template_http-list_filter-list_http-referer-cfg_referer-ends-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-template_http-list_mss-timeout

Specification	Value
Type	*object*

mss-percent

Description Configure percentage of mss such that if a packet size is below the mss times mss-percent, packet is considered bad.

Type: number

Range: 1-100

mss-timeout-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: mss-timeout-action and mss-timeout-action-list-name are mutually exclusive

mss-timeout-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: mss-timeout-action-list-name and mss-timeout-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

number-packets

Description Specify percentage of mss. Default is 0, mss-timeout is not enabled.

Type: number

Range: 1-31

zone-template_http-list_malformed-http

Specification	Value
Type	*object*

malformed-http

Description 'check': Configure malformed HTTP parameters;

Type: string

Supported Values: check

Default: check

malformed-http-action

Description 'drop': Drop packets (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, reset, blacklist-src

Mutual Exclusion: malformed-http-action and malformed-http-action-list-name are mutually exclusive

malformed-http-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: malformed-http-action-list-name and malformed-http-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

malformed-http-bad-chunk-mon-enabled

Description Enabling bad chunk monitoring. Default is disabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-http-max-content-length

Description Set the maxinum content-length header. Default value is 4294967295 bytes

Type: number

Range: 1-4294967295

Default: 4294967295

malformed-http-max-header-name-size

Description Set the maxinum header name length. Default value is 64.

Type: number

Range: 1-64

Default: 64

malformed-http-max-line-size

Description Set the maximum line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

malformed-http-max-num-headers

Description Set the maximum number of headers. Default value is 90

Type: number

Range: 1-90

Default: 90

malformed-http-max-req-line-size

Description Set the maximum request line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_http-list_request-header

Specification	Value
Type	*object*

header-timeout-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Default: drop

Mutual Exclusion: header-timeout-action and header-timeout-action-list-name are mutually exclusive

header-timeout-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: header-timeout-action-list-name and header-timeout-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

timeout

Description

Type: number

Range: 1-63

zone-template_sip-list

Specification	Value
Type	*list*
Block object keys	

dst

Description: dst is a **JSON Block**. Please see below for *zone-template_sip-list_dst*

Type: Object

filter-header-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/filter-header/{sip-filter-name}*

idle-timeout

Description: idle-timeout is a **JSON Block**. Please see below for *zone-template_sip-list_idle-timeout*

Type: Object

malformed-sip

Description: malformed-sip is a **JSON Block**. Please see below for *zone-template_sip-list_malformed-sip*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/malformed-sip*

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *zone-template_sip-list_multi-pu-threshold-distribution*

Type: Object

sip-tmpl-name

Description DDOS SIP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src

Description: src is a **JSON Block**. Please see below for *zone-template_sip-list_src*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_sip-list_src

Specification	Value
Type	*object*

sip-request-rate-limit

Description: sip-request-rate-limit is a **JSON Block**. Please see below for *zone-template_sip-list_src_sip-request-rate-limit*

Type: Object

zone-template_sip-list_src_sip-request-rate-limit

Specification	Value
Type	*object*

method

Description: method is a **JSON Block**. Please see below for *zone-template_sip-list_src_sip-request-rate-limit_method*

Type: Object

src-sip-rate-action

Description 'drop': Drop packets(Default); 'ignore': Take no action; 'reset': Reset (sip-tcp) client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: src-sip-rate-action and src-sip-rate-action-list-name are mutually exclusive

src-sip-rate-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-sip-rate-action-list-name and src-sip-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_sip-list_src_sip-request-rate-limit_method

Specification	Value
Type	*object*

bye-cfg

Description: bye-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_src_sip-request-rate-limit_method_bye-cfg*

Type: Object

invite-cfg

Description: invite-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_src_sip-request-rate-limit_method_invite-cfg*

Type: Object

message-cfg

Description: message-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_src_sip-request-rate-limit_method_message-cfg*

Type: Object

notify-cfg

Description: notify-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_src_sip-request-rate-limit_method_notify-cfg*

Type: Object

options-cfg

Description: options-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_src_sip-request-rate-limit_method_options-cfg*

Type: Object

refer-cfg

Description: refer-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_src_sip-request-rate-limit_method_refer-cfg*

Type: Object

register-cfg

Description: register-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_src_sip-request-rate-limit_method_register-cfg*

Type: Object

subscribe-cfg

Description: subscribe-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_src_sip-request-rate-limit_method_subscribe-cfg*

Type: Object

update-cfg

Description: update-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_src_sip-request-rate-limit_method_update-cfg*

Type: Object

zone-template_sip-list_src_sip-request-rate-limit_method_options-cfg

Specification	Value
Type	*object*

OPTIONS

Description OPTIONS method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-options-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_src_sip-request-rate-limit_method_refer-cfg

Specification	Value
Type	*object*

REFER

Description REFER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-refer-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_src_sip-request-rate-limit_method_bye-cfg

Specification	Value
Type	*object*

BYE

Description BYE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-bye-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_src_sip-request-rate-limit_method_subscribe-cfg

Specification	Value
Type	*object*

SUBSCRIBE

Description SUBSCRIBE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-subscribe-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_src_sip-request-rate-limit_method_register-cfg

Specification	Value
Type	*object*

REGISTER

Description REGISTER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-register-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_src_sip-request-rate-limit_method_invite-cfg

Specification	Value
Type	*object*

INVITE

Description INVITE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-invite-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_src_sip-request-rate-limit_method_message-cfg

Specification	Value
Type	*object*

MESSAGE

Description MESSAGE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-message-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_src_sip-request-rate-limit_method_update-cfg

Specification	Value
Type	*object*

UPDATE

Description UPDATE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-update-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_src_sip-request-rate-limit_method_notify-cfg

Specification	Value
Type	*object*

NOTIFY

Description NOTIFY method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-notify-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_dst

Specification	Value
Type	*object*

sip-request-rate-limit

Description: sip-request-rate-limit is a **JSON Block**. Please see below for *zone-template_sip-list_dst_sip-request-rate-limit*

Type: Object

zone-template_sip-list_dst_sip-request-rate-limit

Specification	Value
Type	*object*

dst-sip-rate-action

Description 'drop': Drop packets(Default); 'ignore': Take no action; 'reset': Reset (sip-tcp) client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: dst-sip-rate-action and dst-sip-rate-action-list-name are mutually exclusive

dst-sip-rate-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-sip-rate-action-list-name and dst-sip-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

method

Description: method is a **JSON Block**. Please see below for *zone-template_sip-list_dst_sip-request-rate-limit_method*

Type: Object

zone-template_sip-list_dst_sip-request-rate-limit_method

Specification	Value
Type	*object*

bye-cfg

Description: bye-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_dst_sip-request-rate-limit_method_bye-cfg*

Type: Object

invite-cfg

Description: invite-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_dst_sip-request-rate-limit_method_invite-cfg*

Type: Object

message-cfg

Description: message-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_dst_sip-request-rate-limit_method_message-cfg*

Type: Object

notify-cfg

Description: notify-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_dst_sip-request-rate-limit_method_notify-cfg*

Type: Object

options-cfg

Description: options-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_dst_sip-request-rate-limit_method_options-cfg*

Type: Object

refer-cfg

Description: refer-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_dst_sip-request-rate-limit_method_refer-cfg*

Type: Object

register-cfg

Description: register-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_dst_sip-request-rate-limit_method_register-cfg*

Type: Object

subscribe-cfg

Description: subscribe-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_dst_sip-request-rate-limit_method_subscribe-cfg*

Type: Object

update-cfg

Description: update-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_dst_sip-request-rate-limit_method_update-cfg*

Type: Object

zone-template_sip-list_dst_sip-request-rate-limit_method_options-cfg

Specification	Value
Type	*object*

OPTIONS

Description OPTIONS method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-options-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_dst_sip-request-rate-limit_method_refer-cfg

Specification	Value
Type	*object*

REFER

Description REFER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-refer-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_dst_sip-request-rate-limit_method_bye-cfg

Specification	Value
Type	*object*

BYE

Description BYE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-bye-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_dst_sip-request-rate-limit_method_subscribe-cfg

Specification	Value
Type	*object*

SUBSCRIBE

Description SUBSCRIBE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-subscribe-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_dst_sip-request-rate-limit_method_register-cfg

Specification	Value
Type	*object*

REGISTER

Description REGISTER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-register-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_dst_sip-request-rate-limit_method_invite-cfg

Specification	Value
Type	*object*

INVITE

Description INVITE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-invite-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_dst_sip-request-rate-limit_method_message-cfg

Specification	Value
Type	*object*

MESSAGE

Description MESSAGE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-message-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_dst_sip-request-rate-limit_method_update-cfg

Specification	Value
Type	*object*

UPDATE

Description UPDATE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-update-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_dst_sip-request-rate-limit_method_notify-cfg

Specification	Value
Type	*object*

NOTIFY

Description NOTIFY method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-notify-rate

Description

Type: number

Range: 1-16000000

zone-template_sip-list_idle-timeout

Specification	Value
Type	*object*

idle-timeout-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset (sip-tcp) client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: idle-timeout-action and idle-timeout-action-list-name are mutually exclusive

idle-timeout-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: idle-timeout-action-list-name and idle-timeout-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

idle-timeout-value

Description Set the the idle timeout value for SIP-TCP connections

Type: number

Range: 1-63

ignore-zero-payload

Description Don't reset idle timer on packets with zero payload length from clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-template_sip-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

zone-template_sip-list_malformed-sip

Specification	Value
Type	*object*

malformed-sip-action

Description 'drop': Drop packets (Default); 'reset': Reset (sip-tcp) client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: malformed-sip-action and malformed-sip-action-list-name are mutually exclusive

malformed-sip-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: malformed-sip-action-list-name and malformed-sip-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

malformed-sip-call-id-max-length

Description Set the maximum call-id length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-check

Description 'enable-check': Enable malformed SIP parameters;

Type: string

Supported Values: enable-check

malformed-sip-max-header-name-length

Description Set the maximum header name length. Default value is 63

Type: number

Range: 1-63

Default: 63

malformed-sip-max-header-value-length

Description Set the maximum header value length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-line-size

Description Set the maximum line size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-uri-length

Description Set the maximum uri size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-sdp-max-length

Description Set the maxinum SDP content length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_sip-list_filter-header-list

Specification	Value
Type	*list*
Block object keys	

sip-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src; 'reset': Reset client connection(for sip-tcp);

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src, reset

Mutual Exclusion: sip-filter-action and sip-filter-action-list-name are mutually exclusive

sip-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip-filter-action-list-name and sip-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

sip-filter-header-seq

Description Sequence number

Type: number

Range: 1-200

sip-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip-header-cfg

Description: sip-header-cfg is a **JSON Block**. Please see below for *zone-template_sip-list_filter-header-list_sip-header-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_sip-list_filter-header-list_sip-header-cfg

Specification	Value
Type	*object*

sip-filter-header-inverse-match

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

zone-template_icmp-v6-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/filter/{icmp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

icmp-tmpl-name

Description DDOS ICMPv6 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type/{type-number}*

type-other

Description: type-other is a **JSON Block**. Please see below for *zone-template_icmp-v6-list_type-other*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type-other*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_icmp-v6-list_type-list

Specification	Value
Type	*list*
Block object keys	

dst-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

dst-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-other-rate-action and dst-code-other-rate-action-list-name are mutually exclusive

dst-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-other-rate-action-list-name and dst-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-type-action

Description 'drop': Reject this ICMP type; 'blacklist-src': Blacklist-src this ICMP type; 'ignore': Ignore this ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-action and icmp-type-action-list-name are mutually exclusive

icmp-type-action-list-name

Description Configure action-list to take for this ICMP type

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-action-list-name and icmp-type-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

src-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-other-rate-action and src-code-other-rate-action-list-name are mutually exclusive

src-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-other-rate-action-list-name and src-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v6-dst-code-cfg

Type: List

v6-dst-rate-cfg

Description: v6-dst-rate-cfg is a **JSON Block**. Please see below for *zone-template_icmp-v6-list_type-list_v6-dst-rate-cfg*

Type: Object

v6-src-code-cfg

Type: List

v6-src-rate-cfg

Description: v6-src-rate-cfg is a **JSON Block**. Please see below for *zone-template_icmp-v6-list_type-list_v6-src-rate-cfg*

Type: Object

zone-template_icmp-v6-list_type-list_v6-dst-rate-cfg

Specification	Value
Type	*object*

dst-type-rate

Description Specify the whole dst rate for this type

Type: number

Range: 1-16000000

dst-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-rate-action and dst-type-rate-action-list-name are mutually exclusive

dst-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-rate-action-list-name and dst-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_icmp-v6-list_type-list_v6-src-rate-cfg

Specification	Value
Type	*object*

src-type-rate

Description Specify the whole src rate for this type

Type: number

Range: 1-16000000

src-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-rate-action and src-type-rate-action-list-name are mutually exclusive

src-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-rate-action-list-name and src-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_icmp-v6-list_type-list_v6-src-code-cfg

Specification	Value
Type	*list*
Block object keys	

src-code-number

Description Specify the ICMP code for this src rate

Type: number

Range: 0-255

src-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

src-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-rate-action and src-code-rate-action-list-name are mutually exclusive

src-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-rate-action-list-name and src-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_icmp-v6-list_type-list_v6-dst-code-cfg

Specification	Value
Type	*list*
Block object keys	

dst-code-number

Description Specify the ICMP code for this dst rate

Type: number

Range: 0-255

dst-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

dst-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-rate-action and dst-code-rate-action-list-name are mutually exclusive

dst-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-rate-action-list-name and dst-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_icmp-v6-list_type-other

Specification	Value
Type	*object*

dst

Description: dst is a **JSON Block**. Please see below for *zone-template_icmp-v6-list_type-other_dst*

Type: Object

icmp-type-other-action

Description 'drop': Reject wildcard ICMP type; 'blacklist-src': Blacklist-src wildcard ICMP type; 'ignore': Ignore wildcard ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-other-action and icmp-type-other-action-list-name are mutually exclusive

icmp-type-other-action-list-name

Description Configure action-list to take for wildcard ICMP match

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-other-action-list-name and icmp-type-other-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src

Description: src is a **JSON Block**. Please see below for *zone-template_icmp-v6-list_type-other_src*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template_icmp-v6-list_type-other_src

Specification	Value
Type	*object*

src-type-other-rate

Description Specify the whole src rate for wildcard ICMP type

Type: number

Range: 1-16000000

src-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-other-rate-action and src-type-other-rate-action-list-name are mutually exclusive

src-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-other-rate-action-list-name and src-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_icmp-v6-list_type-other_dst

Specification	Value
Type	*object*

dst-type-other-rate

Description Specify the whole dst rate for wildcard ICMP type

Type: number

Range: 1-16000000

dst-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-other-rate-action and dst-type-other-rate-action-list-name are mutually exclusive

dst-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-other-rate-action-list-name and dst-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-template_icmp-v6-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description filter using Berkeley packet filter syntax

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

icmp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, blacklist-src

Default: drop

Mutual Exclusion: icmp-filter-action and icmp-filter-action-list-name are mutually exclusive

icmp-filter-action-list-name

Description list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-filter-action-list-name and icmp-filter-action are mutually exclusive

icmp-filter-inverse-match

Description Inverse the result of matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

icmp-filter-seq

Description sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

interface-http-health-check

Specification	Value
Type	*object*

challenge-method

Description 'http-redirect': http-redirect; 'javascript': javascript;

Type: string

Supported Values: http-redirect, javascript

challenge-redirect-code

Description '302': 302 Found; '307': 307 Temporary Redirect;

Type: string

Supported Values: 302, 307

Default: 302

challenge-uri-encode

Description Encode the challenge phrase in uri instead of in http cookie. Default encoded in http cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable

Description 'enable': enable;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-profile-list

Specification	Value
Type	*list*
Block object keys	

ip-proto

Description: ip-proto is a **JSON Block**. Please see below for *zone-profile-list_ip-proto*

Type: Object

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto*

port-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}*

profile-name

Description Profile for DDoS zone thresholds

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-profile-list_port-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}/indicator/{indicator-name}*

port-num

Description Port Number

Type: number

Range: 1-65535

port-protocol

Description 'dns-tcp': dns-tcp; 'dns-udp': dns-udp; 'sip-tcp': sip-tcp; 'sip-udp': sip-udp; 'http': http; 'tcp': tcp; 'udp': udp; 'ssl-l4': ssl-l4; 'quic': quic;

Type: string

Supported Values: dns-tcp, dns-udp, sip-tcp, sip-udp, http, tcp, udp, ssl-l4, quic

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-profile-list_port-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'concurrent-conns': concurrent-conns; 'conn-miss-rate': conn-miss-rate; 'syn-rate': syn-rate; 'fin-rate': fin-rate; 'rst-rate': rst-rate; 'small-window-ack-rate': small-window-ack-rate; 'empty-ack-rate': empty-ack-rate; 'small-payload-rate': small-payload-rate; 'syn-fin-ratio': syn-fin-ratio; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *zone-profile-list_port-list_indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *zone-profile-list_port-list_indicator-list_zone-threshold-cfg*

Type: Object

zone-profile-list_port-list_indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-profile-list_port-list_indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-profile-list_ip-proto

Specification	Value
Type	*object*

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}*

proto-number-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}*

zone-profile-list_ip-proto_proto-number-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator/{indicator-name}*

protocol-num

Description Protocol Number

Type: number

Range: 0-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-profile-list_ip-proto_proto-number-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'frag-rate': frag-rate; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *zone-profile-list_ip-proto_proto-number-list_indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *zone-profile-list_ip-proto_proto-number-list_indicator-list_zone-threshold-cfg*

Type: Object

zone-profile-list_ip-proto_proto-number-list_indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-profile-list_ip-proto_proto-number-list_indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-profile-list_ip-proto_proto-name-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator/{indicator-name}*

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6; 'gre': ip-proto gre; 'ipv4-encap': ip-proto IPv4 Encapsulation; 'ipv6-encap': ip-proto IPv6 Encapsulation;

Type: string

Supported Values: icmp-v4, icmp-v6, gre, ipv4-encap, ipv6-encap

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-profile-list_ip-proto_proto-name-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'frag-rate': frag-rate; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *zone-profile-list_ip-proto_proto-name-list_indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *zone-profile-list_ip-proto_proto-name-list_indicator-list_zone-threshold-cfg*

Type: Object

zone-profile-list_ip-proto_proto-name-list_indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-profile-list_ip-proto_proto-name-list_indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-profile-list_port-range-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/indicator/{indicator-name}*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 2-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-tcp': SIP-TCP Port; 'sip-udp': SIP-UDP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-tcp, sip-udp, quic

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-profile-list_port-range-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'concurrent-conns': concurrent-conns; 'conn-miss-rate': conn-miss-rate; 'syn-rate': syn-rate; 'fin-rate': fin-rate; 'rst-rate': rst-rate; 'small-window-ack-rate': small-window-ack-rate; 'empty-ack-rate': empty-ack-rate; 'small-payload-rate': small-payload-rate; 'syn-fin-ratio': syn-fin-ratio; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *zone-profile-list_port-range-list_indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *zone-profile-list_port-range-list_indicator-list_zone-threshold-cfg*

Type: Object

zone-profile-list_port-range-list_indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-profile-list_port-range-list_indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

dns-cache-config

Specification	Value
Type	*object*

disable-zone-transfer-in-oper-mode

Description Disable operational refreshing zone transfer

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-zone-transfer-in-warm-up-mode

Description Disable warm up zone transfer

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

edns-udp-size

Description Set the global maximum EDNS UDP message size (Default: 1232)

Type: number

Range: 512-4096

Default: 1232

enable-cache-warm-up-bgp-advertise

Description Enable route injection during cold boot

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-concurrent-zone-transfers

Description: max-concurrent-zone-transfers is a **JSON Block**. Please see below for *dns-cache-config_max-concurrent-zone-transfers*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache-config/max-concurrent-zone-transfers*

minimal-truncation-responses

Description Enable sending an empty DNS message when the response is truncated.

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-cache-config_max-concurrent-zone-transfers

Specification	Value
Type	*object*

operational-mode

Description Number of concurrent zone transfers after boot

Type: number

Range: 1-3120

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

warm-up-mode

Description Number of concurrent zone transfers during cold boot (default 65472)

Type: number

Range: 100-65535

Default: 65472

signature-extraction

Specification	Value
Type	*object*

enable

Description Enable Automatic Signature Extraction

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns-list

Type: List

Reference Object: */axapi/v3/ddos/template/dns/{name}*

encap-list

Type: List

Reference Object: */axapi/v3/ddos/template/encap/{encap-tmpl-name}*

http-list

Type: List

Reference Object: */axapi/v3/ddos/template/http/{http-tmpl-name}*

icmp-v4-list

Type: List

Reference Object: */axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}*

icmp-v6-list

Type: List

Reference Object: */axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}*

logging-list

Type: List

Reference Object: */axapi/v3/ddos/template/logging/{logging-tmpl-name}*

other-list

Type: List

Reference Object: */axapi/v3/ddos/template/other/{name}*

sip-list

Type: List

Reference Object: */axapi/v3/ddos/template/sip/{sip-tmpl-name}*

ssl-l4-list

Type: List

Reference Object: */axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}*

tcp-list

Type: List

Reference Object: */axapi/v3/ddos/template/tcp/{name}*

udp-list

Type: List

Reference Object: */axapi/v3/ddos/template/udp/{name}*

template_logging-list

Specification	Value
Type	*list*
Block object keys	

enable-action-logging

Description Log action taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-format-cef

Description Log in CEF format

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-format-custom

Description Customize log format

Type: string

Format: string-rlx

Maximum Length: 512 characters

Maximum Length: 1 characters

logging-tmpl-name

Description DDOS Logging Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: default

use-obj-name

Description Show obj name instead of ip in the log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_encap-list

Specification	Value
Type	*list*
Block object keys	

encap-tmpl-name

Description DDOS Tunnel Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

preserve-source-ip

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap

Description: tunnel-encap is a **JSON Block**. Please see below for *template_encap-list_tunnel-encap*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_encap-list_tunnel-encap

Specification	Value
Type	*object*

gre-cfg

Description: gre-cfg is a **JSON Block**. Please see below for *template_encap-list_tunnel-encap_gre-cfg*

Type: Object

ip-cfg

Description: ip-cfg is a **JSON Block**. Please see below for *template_encap-list_tunnel-encap_ip-cfg*

Type: Object

template_encap-list_tunnel-encap_ip-cfg

Specification	Value
Type	*object*

always

Description: always is a **JSON Block**. Please see below for *template_encap-list_tunnel-encap_ip-cfg_always*

Type: Object

ip-encap

Description Enable Tunnel encap for IP packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_encap-list_tunnel-encap_ip-cfg_always

Specification	Value
Type	*object*

ipv4-addr

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

ipv6-addr

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

template_encap-list_tunnel-encap_gre-cfg

Specification	Value
Type	*object*

gre-always

Description: gre-always is a **JSON Block**. Please see below for *template_encap-list_tunnel-encap_gre-cfg_gre-always*

Type: Object

gre-encap

Description Enable Tunnel encap for GRE packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_encap-list_tunnel-encap_gre-cfg_gre-always

Specification	Value
Type	*object*

gre-ipv4

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

gre-ipv6

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

key-ipv4

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

key-ipv6

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

template_ssl-l4-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'drop': drop; 'reset': reset;

Type: string

Supported Values: drop, reset

Default: drop

allow-non-tls

Description Allow Non-TLS (SSLv3 and lower) traffic (Warning: security may be compromised)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-config-cfg

Description: auth-config-cfg is a **JSON Block**. Please see below for *template_ssl-l4-list_auth-config-cfg*

Type: Object

cert-cfg

Description: cert-cfg is a **JSON Block**. Please see below for *template_ssl-l4-list_cert-cfg*

Type: Object

disable

Description Disable this template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *template_ssl-l4-list_multi-pu-threshold-distribution*

Type: Object

renegotiation

Description Configure renegotiation limiting for SSL (Number of renegotiation allowed)

Type: number

Range: 0-7

request-rate-limit

Description Configure rate limiting for SSL

Type: number

Range: 1-16000000

server-name-list

Type: List

ssl-handshake-policy

Description: ssl-handshake-policy is a **JSON Block**. Please see below for *template_ssl-l4-list_ssl-handshake-policy*

Type: Object

Reference Object: */axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy*

ssl-l4-tmpl-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-traffic-check

Description: ssl-traffic-check is a **JSON Block**. Please see below for *template_ssl-l4-list_ssl-traffic-check*

Type: Object

Reference Object: */axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_ssl-l4-list_cert-cfg

Specification	Value
Type	*object*

cert

Description SSL certificate

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

key

Description SSL key

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

key-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED password string)

key-passphrase

Description Password Phrase

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

template_ssl-l4-list_auth-config-cfg

Specification	Value
Type	*object*

auth-handshake-fail-action

Description 'blacklist-src': Blacklist-src when auth handshake fails;

Type: string

Supported Values: blacklist-src

timeout

Description Connection timeout

Type: number

Range: 1-31

Default: 5

trials

Description Number of failed handshakes

Type: number

Range: 0-15

Default: 5

template_ssl-l4-list_ssl-traffic-check

Specification	Value
Type	*object*

check-resumed-connection

Description Apply checks to SSL connections initialized by ACK packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

header-action

Description 'drop': Drop packets with bad ssl header; 'ignore': Forward packets with bad ssl header;

Type: string

Supported Values: drop, ignore

header-inspection

Description Inspect ssl header

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_ssl-l4-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

template_ssl-l4-list_ssl-handshake-policy

Specification	Value
Type	*object*

action

Description 'drop': Drop packets (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist source IP;

Type: string

Supported Values: drop, reset, blacklist-src

Mutual Exclusion: action and ssl-handshake-policy-action-list-name are mutually exclusive

cipher-suites-limit

Description Set cipher suites limit

Type: number

Range: 1-600

client-extensions-limit

Description Set client extensions limit

Type: number

Range: 1-600

clienthello-to-appdata-timeout

Description Set maximum timeout seconds from ClientHello to Application-Data

Type: number

Range: 1-600

finished-to-appdata-timeout

Description Set maximum timeout seconds from Handshake finished to Application-Data

Type: number

Range: 1-600

src-handshaking-conn-limit

Description Set handshaking connection limit

Type: number

Range: 1-16000000

ssl-handshake-policy-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-handshake-policy-action-list-name and action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_ssl-l4-list_server-name-list

Specification	Value
Type	*list*
Block object keys	

server-cert

Description Server Certificate associated to SNI (Server Certificate Name)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED password string)

server-key

Description Server Private Key associated to SNI (Server Private Key Name)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-name

Description Server name indication in Client hello extension (Server name String)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-passphrase

Description Password Phrase

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

template_dns-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'drop': Drop packets (Default action); 'reset': Send Client RST for TCP connections;

Type: string

Supported Values: drop, reset

Default: drop

alias-rate-threshold

Description ALIAS(Record Type 65300) Query Forwarding Rate Limit (Only for DNS Cache Mode)

Type: number

Range: 1-16000000

allow-query-class

Description: allow-query-class is a **JSON Block**. Please see below for *template_dns-list_allow-query-class*

Type: Object

allow-record-type

Description: allow-record-type is a **JSON Block**. Please see below for *template_dns-list_allow-record-type*

Type: Object

dns-any-check

Description Drop DNS queries of Type ANY

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-auth-cfg

Description: dns-auth-cfg is a **JSON Block**. Please see below for *template_dns-list_dns-auth-cfg*

Type: Object

dns-request-rate-limit

Description: dns-request-rate-limit is a **JSON Block**. Please see below for *template_dns-list_dns-request-rate-limit*

Type: Object

dnssec-wildcard-rate-threshold

Description DNSSEC Wildcard Query Forwarding Rate Limit (only for DNS Cache Mode)

Type: number

Range: 1-16000000

domain-group-name

Description Apply a domain-group to the DNS template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

domain-group-rate-exceed-action

Description 'drop': Drop the query (default); 'tunnel-encap-packet': Encapsulate the query and send on a tunnel;

Type: string

Supported Values: drop, tunnel-encap-packet

Default: drop

domain-group-rate-per-service

Description Enable per service domain rate checking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encap-template

Description DDOS encap template to sepcify the tunnel endpoint

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

fqdn-cfg

Type: List

fqdn-label-count

Description Maximum number of length of FQDN labels

Type: number

Range: 1-10

fqdn-label-len-cfg

Type: List

malformed-query-check

Description: malformed-query-check is a **JSON Block**. Please see below for *template_dns-list_malformed-query-check*

Type: Object

Reference Object: */axapi/v3/ddos/template/dns/{name}/malformed-query-check*

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *template_dns-list_multi-pu-threshold-distribution*

Type: Object

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nxdomain-cfg

Description: nxdomain-cfg is a **JSON Block**. Please see below for *template_dns-list_nxdomain-cfg*

Type: Object

on-no-match

Description 'permit': permit; 'deny': deny (default);

Type: string

Supported Values: permit, deny

Default: deny

query-rate-threshold-for-cache-serving

Description This is for DNS cache mode only, it sets a DNS query rate threshold such that queries under the rate threshold would be forward

Type: number

Range: 1-16000000

symtimeout-cfg

Description: symtimeout-cfg is a **JSON Block**. Please see below for *template_dns-list_symtimeout-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_dns-list_dns-request-rate-limit

Specification	Value
Type	*object*

type

Description: type is a **JSON Block**. Please see below for *template_dns-list_dns-request-rate-limit_type*

Type: Object

template_dns-list_dns-request-rate-limit_type

Specification	Value
Type	*object*

A-cfg

Description: A-cfg is a **JSON Block**. Please see below for *template_dns-list_dns-request-rate-limit_type_A-cfg*

Type: Object

AAAA-cfg

Description: AAAA-cfg is a **JSON Block**. Please see below for *template_dns-list_dns-request-rate-limit_type_AAAA-cfg*

Type: Object

CNAME-cfg

Description: CNAME-cfg is a **JSON Block**. Please see below for *template_dns-list_dns-request-rate-limit_type_CNAME-cfg*

Type: Object

MX-cfg

Description: MX-cfg is a **JSON Block**. Please see below for *template_dns-list_dns-request-rate-limit_type_MX-cfg*

Type: Object

NS-cfg

Description: NS-cfg is a **JSON Block**. Please see below for *template_dns-list_dns-request-rate-limit_type_NS-cfg*

Type: Object

SRV-cfg

Description: SRV-cfg is a **JSON Block**. Please see below for *template_dns-list_dns-request-rate-limit_type_SRV-cfg*

Type: Object

dns-type-cfg

Type: List

template_dns-list_dns-request-rate-limit_type_SRV-cfg

Specification	Value
Type	*object*

SRV

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-srv-rate

Description DNS request rate

Type: number

Range: 1-16000000

template_dns-list_dns-request-rate-limit_type_CNAME-cfg

Specification	Value
Type	*object*

CNAME

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-cname-rate

Description

Type: number

Range: 1-16000000

template_dns-list_dns-request-rate-limit_type_dns-type-cfg

Specification	Value
Type	*list*
Block object keys	

dns-request-type

Description Other type value

Type: number

Range: 1-65535

dns-request-type-rate

Description request rate limit

Type: number

Range: 1-16000000

template_dns-list_dns-request-rate-limit_type_AAAA-cfg

Specification	Value
Type	*object*

AAAA

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-aaaa-rate

Description

Type: number

Range: 1-16000000

template_dns-list_dns-request-rate-limit_type_A-cfg

Specification	Value
Type	*object*

A

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-a-rate

Description

Type: number

Range: 1-16000000

template_dns-list_dns-request-rate-limit_type_MX-cfg

Specification	Value
Type	*object*

MX

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-mx-rate

Description

Type: number

Range: 1-16000000

template_dns-list_dns-request-rate-limit_type_NS-cfg

Specification	Value
Type	*object*

NS

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-ns-rate

Description

Type: number

Range: 1-16000000

template_dns-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

template_dns-list_nxdomain-cfg

Specification	Value
Type	*object*

dns-nxdomain-rate

Description Limiting rate

Type: number

Range: 1-16000000

dns-nxdomain-rate-limit

Description DNS NXDOMAIN Rate Limiting (SRC support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-nxdomain-rate-limit-action

Description 'drop': Drop queries if rate is exceeded; 'black-list': Black-List source if rate is exceeded;

Type: string

Supported Values: drop, black-list

template_dns-list_fqdn-cfg

Specification	Value
Type	*list*
Block object keys	

by

Description 'domain-name': Domain Name; 'src-ip': Source IP address; 'both': Use both Domain Name and Source IP address for rate-limiting;

Type: string

Supported Values: domain-name, src-ip, both

Mutual Exclusion: by and per are mutually exclusive

dns-fqdn-rate

Description Limiting rate (Range: 5-8000 for FQDN domain based rate limiting, 5-16000000 for FQDN label count based rate limiting)

Type: number

Range: 5-16000000

dns-fqdn-rate-limit

Description DNS Rate limiting on the basis of FQDN

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fqdn-rate-label-count

Description FQDN label count (Range: 1-8)

Type: number

Range: 1-8

fqdn-rate-suffix

Description Suffix count

Type: number

Range: 1-5

fqdn-rate-suffix-by

Description Number of suffixes

Type: number

Range: 1-5

per

Description 'domain-name': Domain Name; 'src-ip': Source IP address; 'label-count': FQDN label count;

Type: string

Supported Values: domain-name, src-ip, label-count

Mutual Exclusion: per and by are mutually exclusive

per-domain-per-src-ip

Description Use both Domain Name and Source IP address for rate-limiting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_dns-list_dns-auth-cfg

Specification	Value
Type	*object*

dns-auth

Description DNS authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-auth-type

Description 'udp': Drop DNS request and monitor client retry; 'force-tcp': Force DNS request over TCP;

Type: string

Supported Values: udp, force-tcp

force-tcp-ignore-client-source-port

Description Allow client to retransmit DNS request using different source port during udp-auth (supported in asymmetric mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force-tcp-min-retry-gap

Description Minimum sec gap in between 2 dns-udp packets for auth to pass

Type: number

Range: 1-15

force-tcp-timeout

Description TCP authentication timeout in seconds

Type: number

Range: 1-16

min-retry-gap

Description Optional minimum sec gap in between 2 dns-udp packets for auth to pass, unit is specified by min-retry-gap-interval

Type: number

Range: 1-80

min-retry-gap-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

udp-timeout

Description UDP authentication timeout in seconds

Type: number

Range: 1-16

udp-timeout-val-only

Description UDP authentication timeout in seconds

Type: number

Range: 1-16

with-udp-auth

Description Monitor client retry

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_dns-list_symtimeout-cfg

Specification	Value
Type	*object*

sym-timeout

Description Timeout for DNS Symmetric session

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sym-timeout-value

Description Session timeout value in seconds

Type: number

Range: 1-31

template_dns-list_allow-query-class

Specification	Value
Type	*object*

allow-any-query-class

Description ANY query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-chaos-query-class

Description CHAOS query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-csnet-query-class

Description CSNET query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-hesiod-query-class

Description HESIOD query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-internet-query-class

Description INTERNET query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-none-query-class

Description NONE query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_dns-list_fqdn-label-len-cfg

Specification	Value
Type	*list*
Block object keys	

fqdn-label-length

Description Maximum FQDN label length

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fqdn-label-suffix

Description Number of suffixes

Type: number

Range: 1-5

label-length

Description Maximum length of FQDN label

Type: number

Range: 1-63

template_dns-list_allow-record-type

Specification	Value
Type	*object*

allow-a-type

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-aaaa-type

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-cname-type

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-mx-type

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-ns-type

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-srv-type

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

record-num-cfg

Type: List

template_dns-list_allow-record-type_record-num-cfg

Specification	Value
Type	*list*
Block object keys	

allow-num-type

Description Other record type value

Type: number

Range: 1-65535

template_dns-list_malformed-query-check

Specification	Value
Type	*object*

non-query-opcode-check

Description 'disable': When malform check is enabled, TPS always drops DNS query with non query opcode, this option disables this opcode check;

Type: string

Supported Values: disable

skip-multi-packet-check

Description Bypass DNS fragmented and TCP segmented Queries(Default: dropped)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

validation-type

Description 'basic-header-check': Basic header validation for DNS TCP/UDP queries; 'extended-header-check': Extended header/query validation for DNS TCP/UDP queries; 'disable': Disable Malform query validation for DNS TCP/UDP;

Type: string

Supported Values: basic-header-check, extended-header-check, disable

template_icmp-v4-list

Specification	Value
Type	*list*
Block object keys	

icmp-tmpl-name

Description DDOS ICMPv4 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type-list

Type: List

Reference Object: */axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type/{type-number}*

type-other

Description: type-other is a **JSON Block**. Please see below for *template_icmp-v4-list_type-other*

Type: Object

Reference Object: */axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type-other*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_icmp-v4-list_type-other

Specification	Value
Type	*object*

type-other-deny

Description Deny all other type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-other-deny and type-other-rate are mutually exclusive

type-other-rate

Description Specify rate with other type

Type: number

Range: 1-16000000

Mutual Exclusion: type-other-rate and type-other-deny are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_icmp-v4-list_type-list

Specification	Value
Type	*list*
Block object keys	

code

Type: List

code-other

Description: code-other is a **JSON Block**. Please see below for *template_icmp-v4-list_type-list_code-other*

Type: Object

type-deny

Description Reject this ICMP type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-deny, type-rate, and code-other-rate are mutually exclusive

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

type-rate

Description Specify the whole rate with this type

Type: number

Range: 1-16000000

Mutual Exclusion: type-rate and type-deny are mutually exclusive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_icmp-v4-list_type-list_code

Specification	Value
Type	*list*
Block object keys	

code-number

Description Specify the ICMP code

Type: number

Range: 0-255

code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

template_icmp-v4-list_type-list_code-other

Specification	Value
Type	*object*

code-other-rate

Description Specify rate with other code

Type: number

Range: 1-16000000

Mutual Exclusion: code-other-rate and type-deny are mutually exclusive

template_tcp-list

Specification	Value
Type	*list*
Block object keys	

ack-authentication-synack-reset

Description Enable Reset client TCP SYN+ACK for authentication (DST support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-cfg

Description: action-cfg is a **JSON Block**. Please see below for *template_tcp-list_action-cfg*

Type: Object

action-on-ack-rto-retry-count

Description Take action if action-on-ack RTO-authentication fail over retry time(default:5)

Type: number

Range: 2-10

action-on-syn-rto-retry-count

Description Take action if action-on-syn RTO-authentication fail over retry time(default:5)

Type: number

Range: 2-10

action-syn-cfg

Description: action-syn-cfg is a **JSON Block**. Please see below for *template_tcp-list_action-syn-cfg*

Type: Object

age

Description Session age in minutes

Type: number

Range: 1-63

allow-syn-otherflags

Description Treat TCP SYN+PSH as a TCP SYN (DST tcp ports support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-synack-skip-authentications

Description Allow create sessions on SYNACK without syn-auth and ack-auth (ASYM Mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-tcp-tfo

Description Allow TCP Fast Open

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

black-list-out-of-seq

Description Black list Src IP if out of seq pkts exceed configured threshold

Type: number

Range: 1-64000

Mutual Exclusion: black-list-out-of-seq and per-conn-out-of-seq-rate-limit are mutually exclusive

black-list-retransmit

Description Black list Src IP if retransmit pkts exceed configured threshold

Type: number

Range: 1-64000

Mutual Exclusion: black-list-retransmit and per-conn-retransmit-rate-limit are mutually exclusive

black-list-zero-win

Description Black list Src IP if zero window pkts exceed configured threshold

Type: number

Range: 1-250

Mutual Exclusion: black-list-zero-win and per-conn-zero-win-rate-limit are mutually exclusive

conn-rate-limit-on-syn-only

Description Only count SYN-initiated connections towards connection-rate tracking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

create-conn-on-syn-only

Description Enable connection establishment on SYN only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-known-resp-src-port-cfg

Description: drop-known-resp-src-port-cfg is a **JSON Block**. Please see below for *template_tcp-list_drop-known-resp-src-port-cfg*

Type: Object

dst

Description: dst is a **JSON Block**. Please see below for *template_tcp-list_dst*

Type: Object

filter-list

Type: List

Reference Object: */axapi/v3/ddos/template/tcp/{name}/filter/{tcp-filter-seq}*

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

per-conn-out-of-seq-rate-action

Description 'drop': Drop packets for out-of-seq rate exceed (Default); 'blacklist-src': help Blacklist-src for out-of-seq rate exceed; 'ignore': help Ignore out-of-seq rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

per-conn-out-of-seq-rate-limit

Description Take action if out-of-seq pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-out-of-seq-rate-limit and black-list-out-of-seq are mutually exclusive

per-conn-pkt-rate-action

Description 'drop': Drop packets for per-conn-pkt-rate exceed (Default); 'blacklist-src': help Blacklist-src for per-conn-pkt-rate exceed; 'ignore': Ignore per-conn-pkt-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

per-conn-pkt-rate-limit

Description Packet rate limit per connection per rate-interval

Type: number

Range: 1-16000000

per-conn-rate-interval

Description '100ms': 100ms; '1sec': 1sec; '10sec': 10sec;

Type: string

Supported Values: 100ms, 1sec, 10sec

Default: 1sec

per-conn-retransmit-rate-action

Description 'drop': Drop packets for retransmit rate exceed (Default); 'blacklist-src': help Blacklist-src for retransmit rate exceed; 'ignore': help Ignore retransmit rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

per-conn-retransmit-rate-limit

Description Take action if retransmit pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-retransmit-rate-limit and black-list-retransmit are mutually exclusive

per-conn-zero-win-rate-action

Description 'drop': Drop packets for zero-win rate exceed (Default); 'blacklist-src': help Blacklist-src for zero-win rate exceed; 'ignore': help Ignore zero-win rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

per-conn-zero-win-rate-limit

Description Take action if zero window pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-zero-win-rate-limit and black-list-zero-win are mutually exclusive

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *template_tcp-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking*

src

Description: src is a **JSON Block**. Please see below for *template_tcp-list_src*

Type: Object

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable, send-rst-once

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

synack-rate-limit

Description Config SYNACK rate limit

Type: number

Range: 1-16000000

Mutual Exclusion: synack-rate-limit and track-together-with-syn are mutually exclusive

track-together-with-syn

Description SYNACK will be counted in Dst Syn-rate limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: track-together-with-syn and synack-rate-limit are mutually exclusive

tunnel-encap

Description: tunnel-encap is a **JSON Block**. Please see below for *template_tcp-list_tunnel-encap*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_tcp-list_tunnel-encap

Specification	Value
Type	*object*

gre-cfg

Description: gre-cfg is a **JSON Block**. Please see below for *template_tcp-list_tunnel-encap_gre-cfg*

Type: Object

ip-cfg

Description: ip-cfg is a **JSON Block**. Please see below for *template_tcp-list_tunnel-encap_ip-cfg*

Type: Object

template_tcp-list_tunnel-encap_ip-cfg

Specification	Value
Type	*object*

always

Description: always is a **JSON Block**. Please see below for *template_tcp-list_tunnel-encap_ip-cfg_always*

Type: Object

ip-encap

Description Enable Tunnel encapsulation using IP in IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_tcp-list_tunnel-encap_ip-cfg_always

Specification	Value
Type	*object*

ipv4-addr

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

ipv6-addr

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

preserve-src-ipv4

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

preserve-src-ipv6

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_tcp-list_tunnel-encap_gre-cfg

Specification	Value
Type	*object*

gre-always

Description: gre-always is a **JSON Block**. Please see below for *template_tcp-list_tunnel-encap_gre-cfg_gre-always*

Type: Object

gre-encap

Description Enable Tunnel encapsulation using GRE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_tcp-list_tunnel-encap_gre-cfg_gre-always

Specification	Value
Type	*object*

gre-ipv4

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

gre-ipv6

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

key-ipv4

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

key-ipv6

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

preserve-src-ipv4-gre

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

preserve-src-ipv6-gre

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_tcp-list_dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *template_tcp-list_dst_rate-limit*

Type: Object

template_tcp-list_dst_rate-limit

Specification	Value
Type	*object*

syn-rate-limit

Description: syn-rate-limit is a **JSON Block**. Please see below for *template_tcp-list_dst_rate-limit_syn-rate-limit*

Type: Object

template_tcp-list_dst_rate-limit_syn-rate-limit

Specification	Value
Type	*object*

dst-syn-rate-action

Description 'drop': Drop packets for syn-rate exceed (Default); 'ignore': Ignore syn-rate-exceed;

Type: string

Supported Values: drop, ignore

Default: drop

dst-syn-rate-limit

Description

Type: number

Range: 1-16000000

template_tcp-list_action-cfg

Specification	Value
Type	*object*

action-on-ack

Description Monitor tcp ack for age-out session

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authenticate-only

Description Apply action-on-ack once per source address for authentication purpose

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

min-retry-gap

Description Min gap between 2 ACKs for action-on-ack pass in 100ms interval

Type: number

Range: 1-80

reset

Description Send RST to client

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

rto-authentication

Description Estimate the RTO and apply the exponential back-off for authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description ACK retry timeout in sec

Type: number

Range: 1-31

template_tcp-list_progression-tracking

Specification	Value
Type	*object*

ignore-TLS-handshake

Description Ignore TLS handshake, support SSL-L4 port only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

mitigation

Description: mitigation is a **JSON Block**. Please see below for *template_tcp-list_progression-tracking_mitigation*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation*

profiling

Description: profiling is a **JSON Block**. Please see below for *template_tcp-list_progression-tracking_profiling*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/profiling*

progression-tracking-enabled

Description 'enable-check': Enable Progression Tracking Check;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_tcp-list_progression-tracking_mitigation

Specification	Value
Type	*object*

connection-tracking

Description: connection-tracking is a **JSON Block**. Please see below for *template_tcp-list_progression-tracking_mitigation_connection-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/connection-tracking*

request-tracking

Description: request-tracking is a **JSON Block**. Please see below for *template_tcp-list_progression-tracking_mitigation_request-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/request-tracking*

slow-attack

Description: slow-attack is a **JSON Block**. Please see below for *template_tcp-list_progression-tracking_mitigation_slow-attack*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/slow-attack*

time-window-tracking

Description: time-window-tracking is a **JSON Block**. Please see below for *template_tcp-list_progression-tracking_mitigation_time-window-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/time-window-tracking*

template_tcp-list_progression-tracking_mitigation_time-window-tracking

Specification	Value
Type	*object*

progression-tracking-win-enabled

Description 'enable-check': Enable Progression Tracking per Time Window;

Type: string

Supported Values: enable-check

Default: enable-check

progression-tracking-windows-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-windows-action and progression-tracking-windows-action-list-name are mutually exclusive

progression-tracking-windows-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-windows-action-list-name and progression-tracking-windows-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

window-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

window-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

window-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

window-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

window-violation

Description Set the violation threshold

Type: number

Range: 1-255

template_tcp-list_progression-tracking_mitigation_slow-attack

Specification	Value
Type	*object*

init-request-max-time

Description Set client query time (in unit of 100ms). Suggested value larger than 30 secs

Type: number

Range: 2-6000

init-response-max-time

Description Set server think time (in unit of 100ms). Suggested value larger than 45 secs

Type: number

Range: 2-6000

progression-tracking-slow-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-slow-action and progression-tracking-slow-action-list-name are mutually exclusive

progression-tracking-slow-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-slow-action-list-name and progression-tracking-slow-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

response-pkt-rate-max

Description Set the transferred packets per response

Type: number

Range: 1-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_tcp-list_progression-tracking_mitigation_connection-tracking

Specification	Value
Type	*object*

conn-duration-max

Description Set the maximum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-duration-min

Description Set the minimum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

conn-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

conn-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

conn-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

conn-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

conn-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

conn-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking-conn-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-conn-action and progression-tracking-conn-action-list-name are mutually exclusive

progression-tracking-conn-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-conn-action-list-name and progression-tracking-conn-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-conn-enabled

Description 'enable-check': Enable General Progression Tracking per Connection;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_tcp-list_progression-tracking_mitigation_request-tracking

Specification	Value
Type	*object*

first-request-max-time

Description Set the maximum idle time before the first request (in unit of 100ms)

Type: number

Range: 1-65535

progression-tracking-req-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-req-action and progression-tracking-req-action-list-name are mutually exclusive

progression-tracking-req-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-req-action-list-name and progression-tracking-req-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-req-enabled

Description 'enable-check': Enable General Progression Tracking per Request Response;

Type: string

Supported Values: enable-check

Default: enable-check

request-length-max

Description Set the maximum request length

Type: number

Range: 1-65535

request-length-min

Description Set the minimum request length

Type: number

Range: 1-65535

request-response-model

Description 'enable': Enable Request Response Model (Default); 'disable': Disable Request Response Model;

Type: string

Supported Values: enable, disable

Default: enable

request-to-response-max-time

Description Set the maximum request to response time (in unit of 100ms)

Type: number

Range: 1-65535

response-length-max

Description Set the maximum response length

Type: number

Range: 1-4294967295

response-length-min

Description Set the minimum response length

Type: number

Range: 1-65535

response-to-request-max-time

Description Set the maximum response to request time (in unit of 100ms)

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation

Description Set the violation threshold

Type: number

Range: 1-255

template_tcp-list_progression-tracking_profiling

Specification	Value
Type	*object*

profiling-connection-life-model

Description Enable auto-config progression tracking learning for connection model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-request-response-model

Description Enable auto-config progression tracking learning for request response model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-time-window-model

Description Enable auto-config progression tracking learning for time window model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_tcp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-5

tcp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_tcp-list_src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *template_tcp-list_src_rate-limit*

Type: Object

template_tcp-list_src_rate-limit

Specification	Value
Type	*object*

syn-rate-limit

Description: syn-rate-limit is a **JSON Block**. Please see below for *template_tcp-list_src_rate-limit_syn-rate-limit*

Type: Object

template_tcp-list_src_rate-limit_syn-rate-limit

Specification	Value
Type	*object*

src-syn-rate-action

Description 'drop': Drop packets for syn-rate exceed (Default); 'blacklist-src': Blacklist-src for syn-rate exceed; 'ignore': Ignore syn-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

src-syn-rate-limit

Description

Type: number

Range: 1-16000000

template_tcp-list_action-syn-cfg

Specification	Value
Type	*object*

action-on-syn

Description Monitor tcp syn for age-out session

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-on-syn-gap

Description Min gap between 2 SYNs for action-on-syn pass in 100ms interval

Type: number

Range: 1-80

action-on-syn-reset

Description Send RST to client

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-on-syn-rto

Description Estimate the RTO and apply the exponential back-off for authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-on-syn-timeout

Description SYN retry timeout in sec

Type: number

Range: 1-31

template_tcp-list_drop-known-resp-src-port-cfg

Specification	Value
Type	*object*

drop-known-resp-src-port

Description Drop well-known if src-port is less than 1024

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exclude-src-resp-port

Description excluding src port equal destination port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_other-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/template/other/{name}/filter/{other-filter-seq}*

name

Description DDOS OTHER Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_other-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

other-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-seq

Description Sequence number

Type: number

Range: 1-5

other-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_udp-list

Specification	Value
Type	*list*
Block object keys	

age

Description Configure session age(in minutes) for UDP sessions

Type: number

Range: 1-63

drop-known-resp-src-port-cfg

Description: drop-known-resp-src-port-cfg is a **JSON Block**. Please see below for *template_udp-list_drop-known-resp-src-port-cfg*

Type: Object

drop-ntp-monlist

Description Drop NTP monlist request/response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

filter-list

Type: List

Reference Object: */axapi/v3/ddos/template/udp/{name}/filter/{udp-filter-seq}*

max-payload-size

Description Maximum UDP payload size for each single packet

Type: number

Range: 1-1470

min-payload-size

Description Minimum UDP payload size for each single packet

Type: number

Range: 1-1470

name

Description DDOS UDP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

per-conn-pkt-rate-limit

Description Packet rate limit per connection per rate-interval

Type: number

Range: 1-16000000

per-conn-rate-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

previous-salt-timeout

Description Token-Authentication previous salt-prefix timeout in minutes, default is 1 min

Type: number

Range: 1-10080

Default: 1

public-ipv4-addr

Description IP address

Type: string

Format: ipv4-address

public-ipv6-addr

Description IPV6 address

Type: string

Format: ipv6-address

spoof-detect-cfg

Description: spoof-detect-cfg is a **JSON Block**. Please see below for *template_udp-list_spoof-detect-cfg*

Type: Object

token-authentication

Description Enable Token Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-formula

Description 'md5_Salt-SrcIp-SrcPort-DstIp-DstPort': md5 of Salt-SrcIp-SrcPort-DstIp-DstPort; 'md5_Salt-DstIp-DstPort': md5 of Salt-DstIp-DstPort; 'md5_Salt-SrcIp-DstIp': md5 of Salt-SrcIp-DstIp; 'md5_Salt-SrcPort-DstPort': md5 of Salt-SrcPort-DstPort; 'md5_Salt-UintDstIp-DstPort': Using the uint value of IP for md5 of Salt-DstIp-DstPort; 'sha1_Salt-SrcIp-SrcPort-DstIp-DstPort': sha1 of Salt-SrcIp-SrcPort-DstIp-DstPort; 'sha1_Salt-DstIp-DstPort': sha1 of Salt-DstIp-DstPort; 'sha1_Salt-SrcIp-DstIp': sha1 of Salt-SrcIp-DstIp; 'sha1_Salt-SrcPort-DstPort': sha1 of Salt-SrcPort-DstPort; 'sha1_Salt-UintDstIp-DstPort': Using the uint value of IP for sha1 of Salt-DstIp-DstPort;

Type: string

Supported Values: md5_Salt-SrcIp-SrcPort-DstIp-DstPort, md5_Salt-DstIp-DstPort, md5_Salt-SrcIp-DstIp, md5_Salt-SrcPort-DstPort, md5_Salt-UintDstIp-DstPort, sha1_Salt-SrcIp-SrcPort-DstIp-DstPort, sha1_Salt-DstIp-DstPort, sha1_Salt-SrcIp-DstIp, sha1_Salt-SrcPort-DstPort, sha1_Salt-UintDstIp-DstPort

token-authentication-hw-assist-disable

Description token-authentication disable hardware assistance

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-public-address

Description The server public IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-salt-prefix

Description token-authentication salt-prefix

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-salt-prefix-curr

Description

Type: number

Range: 1-4294967295

token-authentication-salt-prefix-prev

Description

Type: number

Range: 1-4294967295

tunnel-encap

Description: tunnel-encap is a **JSON Block**. Please see below for *template_udp-list_tunnel-encap*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_udp-list_tunnel-encap

Specification	Value
Type	*object*

always

Description: always is a **JSON Block**. Please see below for *template_udp-list_tunnel-encap_always*

Type: Object

gre-always

Description: gre-always is a **JSON Block**. Please see below for *template_udp-list_tunnel-encap_gre-always*

Type: Object

gre-encap

Description Enable Tunnel encapsulation using GRE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: gre-encap and ip-encap are mutually exclusive

ip-encap

Description Enable Tunnel encapsulation using IP in IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: ip-encap and gre-encap are mutually exclusive

template_udp-list_tunnel-encap_gre-always

Specification	Value
Type	*object*

gre-ipv4

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

gre-ipv6

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

key-ipv4

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

key-ipv6

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

preserve-src-ipv4-gre

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

preserve-src-ipv6-gre

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_udp-list_tunnel-encap_always

Specification	Value
Type	*object*

ipv4-addr

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

ipv6-addr

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

preserve-src-ipv4

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

preserve-src-ipv6

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_udp-list_spoof-detect-cfg

Specification	Value
Type	*object*

min-retry-gap

Description Optional minimum gap between 2 UDP packets for spoof-detect pass, unit is specified by min-retry-gap-interval

Type: number

Range: 1-80

min-retry-gap-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

spoof-detect

Description Force client to retry on udp

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

spoof-detect-retry-timeout

Description timeout in seconds

Type: number

Range: 1-31

Default: 5

Mutual Exclusion: spoof-detect-retry-timeout and spoof-detect-retry-timeout-val-only are mutually exclusive

spoof-detect-retry-timeout-val-only

Description timeout in seconds

Type: number

Range: 1-31

Default: 5

Mutual Exclusion: spoof-detect-retry-timeout-val-only and spoof-detect-retry-timeout are mutually exclusive

template_udp-list_drop-known-resp-src-port-cfg

Specification	Value
Type	*object*

drop-known-resp-src-port

Description Drop well-known if src-port is less than 1024

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exclude-src-resp-port

Description excluding src port equal destination port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_udp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-5

udp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_http-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'drop': Drop packets for the connection; 'reset': Send RST for the connection;

Type: string

Supported Values: drop, reset

Default: drop

agent-filter

Description: agent-filter is a **JSON Block**. Please see below for *template_http-list_agent-filter*

Type: Object

challenge-cookie-name

Description Set the cookie name used to send back to client. Default is sto-idd

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: sto-idd

challenge-interval

Description Specify the challenge interval. Default is 8 seconds

Type: number

Range: 1-31

Default: 8

challenge-keep-cookie

Description Keep the challenge cookie from client and forward to backend. Default is do not keep

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

challenge-method

Description 'http-redirect': http-redirect; 'javascript': javascript;

Type: string

Supported Values: http-redirect, javascript

challenge-redirect-code

Description '302': 302 Found; '307': 307 Temporary Redirect;

Type: string

Supported Values: 302, 307

Default: 302

challenge-uri-encode

Description Encode the challenge phrase in uri instead of in http cookie. Default encoded in http cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable

Description Disable this template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disallow-connect-method

Description Do not allow HTTP Connect method (asymmetric mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

filter-header-list

Type: List

Reference Object: */axapi/v3/ddos/template/http/{http-tmpl-name}/filter-header/{http-filter-header-seq}*

http-tmpl-name

Description DDOS HTTP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

idle-timeout

Description Set the the idle timeout value in seconds for HTTP connections

Type: number

Range: 1-63

ignore-zero-payload

Description Don't reset idle timer on packets with zero payload length from clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-http

Description: malformed-http is a **JSON Block**. Please see below for *template_http-list_malformed-http*

Type: Object

mss-cfg

Description: mss-cfg is a **JSON Block**. Please see below for *template_http-list_mss-cfg*

Type: Object

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *template_http-list_multi-pu-threshold-distribution*

Type: Object

non-http-bypass

Description Bypass non-http traffic instead of dropping

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

out-of-order-queue-size

Description Set the number of packets for the out-of-order HTTP queue (asym mode only)

Type: number

Range: 0-15

Default: 3

out-of-order-queue-timeout

Description Set the timeout value in seconds for out-of-order queue in HTTP (asym mode only)

Type: number

Range: 0-15

Default: 3

post-rate-limit

Description Configure rate limiting for HTTP POST request

Type: number

Range: 1-16000000

referer-filter

Description: referer-filter is a **JSON Block**. Please see below for *template_http-list_referer-filter*

Type: Object

request-header

Description: request-header is a **JSON Block**. Please see below for *template_http-list_request-header*

Type: Object

request-rate-limit

Description: request-rate-limit is a **JSON Block**. Please see below for *template_http-list_request-rate-limit*

Type: Object

response-rate-limit

Description: response-rate-limit is a **JSON Block**. Please see below for *template_http-list_response-rate-limit*

Type: Object

slow-read-drop

Description: slow-read-drop is a **JSON Block**. Please see below for *template_http-list_slow-read-drop*

Type: Object

use-hdr-ip-cfg

Description: use-hdr-ip-cfg is a **JSON Block**. Please see below for *template_http-list_use-hdr-ip-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_http-list_request-rate-limit

Specification	Value
Type	*object*

request-rate

Description HTTP request rate limit

Type: number

Range: 1-16000000

uri

Type: List

template_http-list_request-rate-limit_uri

Specification	Value
Type	*list*
Block object keys	

contains-cfg

Description: contains-cfg is a **JSON Block**. Please see below for *template_http-list_request-rate-limit_uri_contains-cfg*

Type: Object

ends-cfg

Description: ends-cfg is a **JSON Block**. Please see below for *template_http-list_request-rate-limit_uri_ends-cfg*

Type: Object

equal-cfg

Description: equal-cfg is a **JSON Block**. Please see below for *template_http-list_request-rate-limit_uri_equal-cfg*

Type: Object

starts-cfg

Description: starts-cfg is a **JSON Block**. Please see below for *template_http-list_request-rate-limit_uri_starts-cfg*

Type: Object

template_http-list_request-rate-limit_uri_equal-cfg

Specification	Value
Type	*object*

url-equals

Description Request rate-limit HTTP URI matching a specified pattern

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

url-equals-rate

Description Request rate limit

Type: number

Range: 1-16000000

template_http-list_request-rate-limit_uri_starts-cfg

Specification	Value
Type	*object*

url-starts-with

Description Request rate-limit HTTP URI strting with a specified pattern

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

url-starts-with-rate

Description Request rate limit

Type: number

Range: 1-16000000

template_http-list_request-rate-limit_uri_contains-cfg

Specification	Value
Type	*object*

url-contains

Description Request rate-limit HTTP URI containing a specified pattern

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

url-contains-rate

Description Request rate limit

Type: number

Range: 1-16000000

template_http-list_request-rate-limit_uri_ends-cfg

Specification	Value
Type	*object*

url-ends-with

Description Request rate-limit HTTP URI ending with a specified pattern

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

url-ends-with-rate

Description Request rate limit

Type: number

Range: 1-16000000

template_http-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

template_http-list_malformed-http

Specification	Value
Type	*object*

malformed-http-bad-chunk-mon-enabled

Description Enabling bad chunk monitoring. Default is disabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-http-enabled

Description Enabling ddos malformed http protection. Default value is disabled.

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-http-max-content-length

Description Set the maximum content-length header. Default value is 4294967295 bytes

Type: number

Range: 1-4294967295

Default: 4294967295

malformed-http-max-header-name-size

Description Set the maxinum header name length. Default value is 64.

Type: number

Range: 1-64

Default: 64

malformed-http-max-line-size

Description Set the maximum line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

malformed-http-max-num-headers

Description Set the maximum number of headers. Default value is 90

Type: number

Range: 1-90

Default: 90

malformed-http-max-req-line-size

Description Set the maximum request line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

template_http-list_request-header

Specification	Value
Type	*object*

timeout

Description

Type: number

Range: 1-63

template_http-list_agent-filter

Specification	Value
Type	*object*

agent-contains-cfg

Type: List

agent-ends-cfg

Type: List

agent-equals-cfg

Type: List

agent-filter-blacklist

Description Blacklist the source if the user-agent matches

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

agent-starts-cfg

Type: List

template_http-list_agent-filter_agent-contains-cfg

Specification	Value
Type	*list*
Block object keys	

agent-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

template_http-list_agent-filter_agent-ends-cfg

Specification	Value
Type	*list*
Block object keys	

agent-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

template_http-list_agent-filter_agent-equals-cfg

Specification	Value
Type	*list*
Block object keys	

agent-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

template_http-list_agent-filter_agent-starts-cfg

Specification	Value
Type	*list*
Block object keys	

agent-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

template_http-list_filter-header-list

Specification	Value
Type	*list*
Block object keys	

http-filter-header-blacklist

Description Also blacklist the source when action is taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-count-only

Description Take no action and continue processing the next filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

http-filter-header-seq

Description Sequence number

Type: number

Range: 1-5

http-filter-header-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-whitelist

Description Whitelist the source after filter passes, packets are dropped until then

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_http-list_response-rate-limit

Specification	Value
Type	*object*

obj-size

Description: obj-size is a **JSON Block**. Please see below for *template_http-list_response-rate-limit_obj-size*

Type: Object

template_http-list_response-rate-limit_obj-size

Specification	Value
Type	*object*

between-cfg

Type: List

greater-cfg

Type: List

less-cfg

Type: List

template_http-list_response-rate-limit_obj-size_between-cfg

Specification	Value
Type	*list*
Block object keys	

obj-between-rate

Description Response rate limit

Type: number

Range: 1-16000000

obj-between1

Description Response size configuration

Type: number

Range: 1-16000000

obj-between2

Description Response size configuration

Type: number

Range: 1-16000000

template_http-list_response-rate-limit_obj-size_greater-cfg

Specification	Value
Type	*list*
Block object keys	

obj-greater

Description Response size configuration

Type: number

Range: 1-16000000

obj-greater-rate

Description Response rate limit

Type: number

Range: 1-16000000

template_http-list_response-rate-limit_obj-size_less-cfg

Specification	Value
Type	*list*
Block object keys	

obj-less

Description Response size configuration

Type: number

Range: 1-16000000

obj-less-rate

Description Response rate limit

Type: number

Range: 1-16000000

template_http-list_mss-cfg

Specification	Value
Type	*object*

mss-percent

Description Configure percentage of mss such that if a packet size is below the mss times mss-percent, packet is considered bad.

Type: number

Range: 1-100

mss-timeout

Description Configure DDOS detection based on mss and packet size

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

number-packets

Description Specify percentage of mss. Default is 0, mss-timeout is not enabled.

Type: number

Range: 1-31

template_http-list_referer-filter

Specification	Value
Type	*object*

ref-filter-blacklist

Description Blacklist the source if the referer matches

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

referer-contains-cfg

Type: List

referer-ends-cfg

Type: List

referer-equals-cfg

Type: List

referer-starts-cfg

Type: List

template_http-list_referer-filter_referer-equals-cfg

Specification	Value
Type	*list*
Block object keys	

referer-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

template_http-list_referer-filter_referer-starts-cfg

Specification	Value
Type	*list*
Block object keys	

referer-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

template_http-list_referer-filter_referer-contains-cfg

Specification	Value
Type	*list*
Block object keys	

referer-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

template_http-list_referer-filter_referer-ends-cfg

Specification	Value
Type	*list*
Block object keys	

referer-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

template_http-list_slow-read-drop

Specification	Value
Type	*object*

min-window-count

Description Number of packets

Type: number

Range: 1-31

min-window-size

Description minimum window size

Type: number

Range: 1-65535

template_http-list_use-hdr-ip-cfg

Specification	Value
Type	*object*

l7-hdr-name

Description Set the http header name to parse for client ip. Default is X-Forwarded-For

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: X-Forwarded-For

use-hdr-ip-as-source

Description Mitigate on src ip specified by http header for example X-Forwarded-For header. Default is disabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_sip-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'drop': Drop packets for sip connection; 'reset': Send RST for sip-tcp connection;

Type: string

Supported Values: drop, reset

Default: drop

dst

Description: dst is a **JSON Block**. Please see below for *template_sip-list_dst*

Type: Object

filter-header-list

Type: List

Reference Object: */axapi/v3/ddos/template/sip/{sip-tmpl-name}/filter-header/{sip-filter-header-seq}*

idle-timeout

Description Set the the idle timeout value for sip-tcp connections

Type: number

Range: 1-63

ignore-zero-payload

Description Don't reset idle timer on packets with zero payload length from clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-sip

Description: malformed-sip is a **JSON Block**. Please see below for *template_sip-list_malformed-sip*

Type: Object

Reference Object: */axapi/v3/ddos/template/sip/{sip-tmpl-name}/malformed-sip*

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *template_sip-list_multi-pu-threshold-distribution*

Type: Object

sip-tmpl-name

Description DDOS SIP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src

Description: src is a **JSON Block**. Please see below for *template_sip-list_src*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_sip-list_src

Specification	Value
Type	*object*

sip-request-rate-limit

Description: sip-request-rate-limit is a **JSON Block**. Please see below for *template_sip-list_src_sip-request-rate-limit*

Type: Object

template_sip-list_src_sip-request-rate-limit

Specification	Value
Type	*object*

method

Description: method is a **JSON Block**. Please see below for *template_sip-list_src_sip-request-rate-limit_method*

Type: Object

template_sip-list_src_sip-request-rate-limit_method

Specification	Value
Type	*object*

bye-cfg

Description: bye-cfg is a **JSON Block**. Please see below for *template_sip-list_src_sip-request-rate-limit_method_bye-cfg*

Type: Object

invite-cfg

Description: invite-cfg is a **JSON Block**. Please see below for *template_sip-list_src_sip-request-rate-limit_method_invite-cfg*

Type: Object

message-cfg

Description: message-cfg is a **JSON Block**. Please see below for *template_sip-list_src_sip-request-rate-limit_method_message-cfg*

Type: Object

notify-cfg

Description: notify-cfg is a **JSON Block**. Please see below for *template_sip-list_src_sip-request-rate-limit_method_notify-cfg*

Type: Object

options-cfg

Description: options-cfg is a **JSON Block**. Please see below for *template_sip-list_src_sip-request-rate-limit_method_options-cfg*

Type: Object

refer-cfg

Description: refer-cfg is a **JSON Block**. Please see below for *template_sip-list_src_sip-request-rate-limit_method_refer-cfg*

Type: Object

register-cfg

Description: register-cfg is a **JSON Block**. Please see below for *template_sip-list_src_sip-request-rate-limit_method_register-cfg*

Type: Object

subscribe-cfg

Description: subscribe-cfg is a **JSON Block**. Please see below for *template_sip-list_src_sip-request-rate-limit_method_subscribe-cfg*

Type: Object

update-cfg

Description: update-cfg is a **JSON Block**. Please see below for *template_sip-list_src_sip-request-rate-limit_method_update-cfg*

Type: Object

template_sip-list_src_sip-request-rate-limit_method_options-cfg

Specification	Value
Type	*object*

src-sip-options-cfg-flag

Description OPTIONS method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-options-rate

Description

Type: number

Range: 1-16000000

template_sip-list_src_sip-request-rate-limit_method_refer-cfg

Specification	Value
Type	*object*

src-sip-refer-cfg-flag

Description REFER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-refer-rate

Description

Type: number

Range: 1-16000000

template_sip-list_src_sip-request-rate-limit_method_bye-cfg

Specification	Value
Type	*object*

src-sip-bye-cfg-flag

Description BYE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-bye-rate

Description

Type: number

Range: 1-16000000

template_sip-list_src_sip-request-rate-limit_method_subscribe-cfg

Specification	Value
Type	*object*

src-sip-subscribe-cfg-flag

Description SUBSCRIBE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-subscribe-rate

Description

Type: number

Range: 1-16000000

template_sip-list_src_sip-request-rate-limit_method_register-cfg

Specification	Value
Type	*object*

src-sip-register-cfg-flag

Description REGISTER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-register-rate

Description

Type: number

Range: 1-16000000

template_sip-list_src_sip-request-rate-limit_method_invite-cfg

Specification	Value
Type	*object*

src-sip-invite-cfg-flag

Description INVITE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-invite-rate

Description

Type: number

Range: 1-16000000

template_sip-list_src_sip-request-rate-limit_method_message-cfg

Specification	Value
Type	*object*

src-sip-message-cfg-flag

Description MESSAGE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-message-rate

Description

Type: number

Range: 1-16000000

template_sip-list_src_sip-request-rate-limit_method_update-cfg

Specification	Value
Type	*object*

src-sip-update-cfg-flag

Description UPDATE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-update-rate

Description

Type: number

Range: 1-16000000

template_sip-list_src_sip-request-rate-limit_method_notify-cfg

Specification	Value
Type	*object*

src-sip-notify-cfg-flag

Description NOTIFY method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-notify-rate

Description

Type: number

Range: 1-16000000

template_sip-list_dst

Specification	Value
Type	*object*

sip-request-rate-limit

Description: sip-request-rate-limit is a **JSON Block**. Please see below for *template_sip-list_dst_sip-request-rate-limit*

Type: Object

template_sip-list_dst_sip-request-rate-limit

Specification	Value
Type	*object*

method

Description: method is a **JSON Block**. Please see below for *template_sip-list_dst_sip-request-rate-limit_method*

Type: Object

template_sip-list_dst_sip-request-rate-limit_method

Specification	Value
Type	*object*

bye-cfg

Description: bye-cfg is a **JSON Block**. Please see below for *template_sip-list_dst_sip-request-rate-limit_method_bye-cfg*

Type: Object

invite-cfg

Description: invite-cfg is a **JSON Block**. Please see below for *template_sip-list_dst_sip-request-rate-limit_method_invite-cfg*

Type: Object

message-cfg

Description: message-cfg is a **JSON Block**. Please see below for *template_sip-list_dst_sip-request-rate-limit_method_message-cfg*

Type: Object

notify-cfg

Description: notify-cfg is a **JSON Block**. Please see below for *template_sip-list_dst_sip-request-rate-limit_method_notify-cfg*

Type: Object

options-cfg

Description: options-cfg is a **JSON Block**. Please see below for *template_sip-list_dst_sip-request-rate-limit_method_options-cfg*

Type: Object

refer-cfg

Description: refer-cfg is a **JSON Block**. Please see below for *template_sip-list_dst_sip-request-rate-limit_method_refer-cfg*

Type: Object

register-cfg

Description: register-cfg is a **JSON Block**. Please see below for *template_sip-list_dst_sip-request-rate-limit_method_register-cfg*

Type: Object

subscribe-cfg

Description: subscribe-cfg is a **JSON Block**. Please see below for *template_sip-list_dst_sip-request-rate-limit_method_subscribe-cfg*

Type: Object

update-cfg

Description: update-cfg is a **JSON Block**. Please see below for *template_sip-list_dst_sip-request-rate-limit_method_update-cfg*

Type: Object

template_sip-list_dst_sip-request-rate-limit_method_options-cfg

Specification	Value
Type	*object*

dst-sip-options-cfg-flag

Description OPTIONS method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-options-rate

Description

Type: number

Range: 1-16000000

template_sip-list_dst_sip-request-rate-limit_method_refer-cfg

Specification	Value
Type	*object*

dst-sip-refer-cfg-flag

Description REFER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-refer-rate

Description

Type: number

Range: 1-16000000

template_sip-list_dst_sip-request-rate-limit_method_bye-cfg

Specification	Value
Type	*object*

dst-sip-bye-cfg-flag

Description BYE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-bye-rate

Description

Type: number

Range: 1-16000000

template_sip-list_dst_sip-request-rate-limit_method_subscribe-cfg

Specification	Value
Type	*object*

dst-sip-subscribe-cfg-flag

Description SUBSCRIBE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-subscribe-rate

Description

Type: number

Range: 1-16000000

template_sip-list_dst_sip-request-rate-limit_method_register-cfg

Specification	Value
Type	*object*

dst-sip-register-cfg-flag

Description REGISTER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-register-rate

Description

Type: number

Range: 1-16000000

template_sip-list_dst_sip-request-rate-limit_method_invite-cfg

Specification	Value
Type	*object*

dst-sip-invite-cfg-flag

Description INVITE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-invite-rate

Description

Type: number

Range: 1-16000000

template_sip-list_dst_sip-request-rate-limit_method_message-cfg

Specification	Value
Type	*object*

dst-sip-message-cfg-flag

Description MESSAGE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-message-rate

Description

Type: number

Range: 1-16000000

template_sip-list_dst_sip-request-rate-limit_method_update-cfg

Specification	Value
Type	*object*

dst-sip-update-cfg-flag

Description UPDATE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-update-rate

Description

Type: number

Range: 1-16000000

template_sip-list_dst_sip-request-rate-limit_method_notify-cfg

Specification	Value
Type	*object*

dst-sip-notify-cfg-flag

Description NOTIFY method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-notify-rate

Description

Type: number

Range: 1-16000000

template_sip-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

template_sip-list_malformed-sip

Specification	Value
Type	*object*

malformed-sip-call-id-max-length

Description Set the maximum call-id length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-check

Description 'enable-check': Enable malformed SIP parameters;

Type: string

Supported Values: enable-check

malformed-sip-max-header-name-length

Description Set the maximum header name length. Default value is 63

Type: number

Range: 1-63

Default: 63

malformed-sip-max-header-value-length

Description Set the maximum header value length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-line-size

Description Set the maximum line size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-uri-length

Description Set the maximum uri size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-sdp-max-length

Description Set the maxinum SDP content length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_sip-list_filter-header-list

Specification	Value
Type	*list*
Block object keys	

sip-filter-header-blacklist

Description Also blacklist the source when action is taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-count-only

Description Take no action and continue processing the next filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

sip-filter-header-seq

Description Sequence number

Type: number

Range: 1-5

sip-filter-header-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-whitelist

Description Whitelist the source after filter passes, packets are dropped until then

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_icmp-v6-list

Specification	Value
Type	*list*
Block object keys	

icmp-tmpl-name

Description DDOS ICMPv6 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type-list

Type: List

Reference Object: */axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type/{type-number}*

type-other

Description: type-other is a **JSON Block**. Please see below for *template_icmp-v6-list_type-other*

Type: Object

Reference Object: */axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type-other*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_icmp-v6-list_type-other

Specification	Value
Type	*object*

type-other-deny

Description Deny all other type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-other-deny and type-other-rate are mutually exclusive

type-other-rate

Description Specify rate with other type

Type: number

Range: 1-16000000

Mutual Exclusion: type-other-rate and type-other-deny are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_icmp-v6-list_type-list

Specification	Value
Type	*list*
Block object keys	

code

Type: List

code-other

Description: code-other is a **JSON Block**. Please see below for *template_icmp-v6-list_type-list_code-other*

Type: Object

type-deny

Description Reject this ICMP type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-deny, type-rate, and code-other-rate are mutually exclusive

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

type-rate

Description Specify the whole rate with this type

Type: number

Range: 1-16000000

Mutual Exclusion: type-rate and type-deny are mutually exclusive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_icmp-v6-list_type-list_code

Specification	Value
Type	*list*
Block object keys	

code-number

Description Specify the ICMP code

Type: number

Range: 0-255

code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

template_icmp-v6-list_type-list_code-other

Specification	Value
Type	*object*

code-other-rate

Description Specify rate with other code

Type: number

Range: 1-16000000

Mutual Exclusion: code-other-rate and type-deny are mutually exclusive

l4-sync

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound-policy-list

Specification	Value
Type	*list*
Block object keys	

asn-based-tracking

Description: asn-based-tracking is a **JSON Block**. Please see below for *outbound-policy-list_asn-based-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/outbound-policy/{name}/asn-based-tracking*

country-based-tracking

Description: country-based-tracking is a **JSON Block**. Please see below for *outbound-policy-list_country-based-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/outbound-policy/{name}/country-based-tracking*

name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/outbound-policy/{name}/policy-class-list/{class-list-name}*

policy-default-class-list

Description: policy-default-class-list is a **JSON Block**. Please see below for *outbound-policy-list_policy-default-class-list*

Type: Object

Reference Object: */axapi/v3/ddos/outbound-policy/{name}/policy-default-class-list*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound-policy-list_country-based-tracking

Specification	Value
Type	*object*

configuration

Description 'configuration': Configure country based tracking;

Type: string

Supported Values: configuration

packet-rate-triggered

Description Triggered by 1/2 packet rate limitation in per-country-glid.

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per-country-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound-policy-list_policy-default-class-list

Specification	Value
Type	*object*

class-list-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

configuration

Description Default class-list configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound-policy-list_asn-based-tracking

Specification	Value
Type	*object*

configuration

Description 'configuration': Configure asn based tracking;

Type: string

Supported Values: configuration

packet-rate-triggered

Description Triggered by 1/2 packet rate limitation in per-asn-glid.

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per-asn-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/class-list*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

geo-location

Specification	Value
Type	*object*

db

Description: db is a **JSON Block**. Please see below for *geo-location_db*

Type: Object

Reference Object: */axapi/v3/ddos/geo-location/db*

file

Description: file is a **JSON Block**. Please see below for *geo-location_file*

Type: Object

Reference Object: */axapi/v3/ddos/geo-location/file*

geo-location_db

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

geo-location_file

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port-template

Specification	Value
Type	*object*

dns-list

Type: List

Reference Object: */axapi/v3/ddos/src-port-template/dns/{name}*

tcp-list

Type: List

Reference Object: */axapi/v3/ddos/src-port-template/tcp/{name}*

udp-list

Type: List

Reference Object: */axapi/v3/ddos/src-port-template/udp/{name}*

src-port-template_udp-list

Specification	Value
Type	*list*
Block object keys	

drop-ntp-monlist

Description Drop NTP monlist request/response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

filter-list

Type: List

Reference Object: */axapi/v3/ddos/src-port-template/udp/{name}/filter/{udp-filter-seq}*

max-payload-size

Description Maximum UDP payload size for each single packet

Type: number

Range: 1-1470

min-payload-size

Description Minimum UDP payload size for each single packet

Type: number

Range: 1-1470

name

Description DDOS UDP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port-template_udp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-5

udp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port-template_dns-list

Specification	Value
Type	*list*
Block object keys	

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

query-resolution-check

Description: query-resolution-check is a **JSON Block**. Please see below for *src-port-template_dns-list_query-resolution-check*

Type: Object

Reference Object: */axapi/v3/ddos/src-port-template/dns/{name}/query-resolution-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port-template_dns-list_query-resolution-check

Specification	Value
Type	*object*

big-response-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

big-response-size

Description Max DNS response size (in Bytes)

Type: number

Range: 1-4096

domain-lockup-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

session-timeout-value

Description max session timeout (secs) between DNS external server and Protected object

Type: number

Range: 1-30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port-template_tcp-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/src-port-template/tcp/{name}/filter/{tcp-filter-seq}*

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port-template_tcp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-5

tcp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

local-address

Specification	Value
Type	*object*

ip-list

Type: List

Reference Object: */axapi/v3/ddos/local-address/ip/{ip-addr}*

ipv6-list

Type: List

Reference Object: */axapi/v3/ddos/local-address/ipv6/{ipv6-addr}*

local-address_ip-list

Specification	Value
Type	*list*
Block object keys	

ip-addr

Description DDoS IPv4 Address for syn cookie usage

Type: string

Format: ipv4-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

local-address_ipv6-list

Specification	Value
Type	*list*
Block object keys	

ipv6-addr

Description DDoS IPv6 Address for syn cookie usage

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-tcp

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

reporting

Specification	Value
Type	*object*

toggle

Description 'disable-on-limit-reached': Disable reporting on DST/Port entry when the max reporting count is reached; 'reject-on-limit-reached': Reject the configuration when the max reporting count is reached;

Type: string

Supported Values: disable-on-limit-reached, reject-on-limit-reached

Default: reject-on-limit-reached

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-filtering-policy-list

Specification	Value
Type	*list*
Block object keys	

name

Description DDOS ip-filtering-policy name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-rule-match-action

Description 'drop': Drop all the packets not meet any rule; 'permit': Forward all the packets not meet any rule (Default);

Type: string

Supported Values: drop, permit

Default: permit

rule-list

Type: List

Reference Object: */axapi/v3/ddos/ip-filtering-policy/{name}/rule/{seq}*

rule-statistics

Description 'enable': Enable;

Type: string

Supported Values: enable

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-filtering-policy-list_rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'drop': Drop the packet (default); 'permit': Skip afterword rules and continue other ddos process; 'blacklist': Blacklist source hosts with glid; 'bypass': Bypass all other ddos process rules and forward;

Type: string

Supported Values: drop, permit, blacklist, bypass

Default: drop

dst-ip

Description IPv4 Subnet address

Type: string

Format: ipv4-cidr

Mutual Exclusion: dst-ip, src-ipv6, and dst-ipv6 are mutually exclusive

dst-ipv6

Description IPv6 Subnet address

Type: string

Format: ipv6-address-plen

Mutual Exclusion: dst-ipv6, src-ip, and dst-ip are mutually exclusive

dst-port

Description Match only packets with the port number

Type: number

Range: 1-65535

Mutual Exclusion: dst-port and dst-port-start are mutually exclusive

dst-port-end

Description Ending Port Number

Type: number

Range: 1-65535

dst-port-start

Description Match only packets in the range of port numbers (Starting Port Number)

Type: number

Range: 1-65535

Mutual Exclusion: dst-port-start and dst-port are mutually exclusive

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

icmp-code

Description ICMP code

Type: number

Range: 0-255

icmp-type

Description ICMP message type

Type: number

Range: 0-255

proto-num

Description IP proto number

Type: number

Range: 0-255

protocol

Description 'tcp': TCP; 'udp': UDP; 'icmp-v4': ICMP; 'icmp-v6': ICMPv6; 'number': Specify IP protocol number;

Type: string

Supported Values: tcp, udp, icmp-v4, icmp-v6, number

seq

Description Sequence number

Type: number

Range: 1-200

src-ip

Description IPv4 Subnet address

Type: string

Format: ipv4-cidr

Mutual Exclusion: src-ip, src-ipv6, and dst-ipv6 are mutually exclusive

src-ipv6

Description IPv6 Subnet address

Type: string

Format: ipv6-address-plen

Mutual Exclusion: src-ipv6, src-ip, and dst-ip are mutually exclusive

src-port

Description Match only packets with the port number

Type: number

Range: 1-65535

Mutual Exclusion: src-port and src-port-start are mutually exclusive

src-port-end

Description Ending Port Number

Type: number

Range: 1-65535

src-port-start

Description Match only packets in the range of port numbers (Starting Port Number)

Type: number

Range: 1-65535

Mutual Exclusion: src-port-start and src-port are mutually exclusive

tcp-flag

Description 'match-all': not = 0 match = 1; 'none-of': not = 1 match = 0; 'match-any': not = 0 match = 0;

Type: string

Supported Values: match-all, none-of, match-any

tcp-flags-bitmask

Description Bitmask in Hex

Type: string

Format: time

Maximum Length: 255 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation-actions-list

Specification	Value
Type	*list*
Block object keys	

blackhole

Description Blackhole the zone (in minute, 0 means infinite)

Type: number

Range: 0-30

blacklist-src

Description Blacklist-src (in min) (applied only for source action)

Type: number

Range: 1-30

execute-script

Description Specify DDOS script to run (applied only for zone action)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

execute-script-timeout

Description Timeout for script execution (in seconds) (applied only for zone action)

Type: number

Range: 5-20

name

Description DDOS violation-actions name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

notification

Type: List

send-notification-only

Description Forces TPS to only send out notification for the violation-action

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation-actions-list_notification

Specification	Value
Type	*list*
Block object keys	

notification-template

Description Specify the notification template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/notification-template*

protection

Specification	Value
Type	*object*

blacklist-reason-tracking

Description Enable blacklist reason tracking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sess-for-unauth-src-without-rst

Description When closing unauthenticated sessions, don't send TCP RST for established TCP sessions. (Default disabled / sending TCP RST for

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-advanced-core-analysis

Description Disable advanced context info in coredump file

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-delay-dynamic-src-learning

Description Disable delay dynamic src entry learning

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-on-reboot

Description Disable DDoS protection upon reboot/reload

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disallow-rst-ack-in-syn-auth

Description Disallow RST-ACK passing syn-auth

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-now

Description Override disable-on-reboot to enable runtime DDOS protection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fast-aging

Description: fast-aging is a **JSON Block**. Please see below for *protection_fast-aging*

Type: Object

fast-path-disable

Description Disable fast path in SLB processing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force-routing-on-transp

Description Force use of routing in transparent mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force-traffic-to-same-blade-disable

Description Allow traffic to be distributed among blades on Chassis

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

hw-blocking-enable

Description Enable hardware blacklist blocking for src or dst default entries (default disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

hw-blocking-threshold-limit

Description Threshold to initiate hardware blocking (default 10000)

Type: number

Range: 1-16000000

Default: 10000

ipv6-src-hash-mask-bits

Description: ipv6-src-hash-mask-bits is a **JSON Block**. Please see below for *protection_ipv6-src-hash-mask-bits*

Type: Object

Reference Object: */axapi/v3/ddos/protection/ipv6-src-hash-mask-bits*

mpls

Description Enable MPLS packet inspection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

multi-pu-zone-distribution

Description: multi-pu-zone-distribution is a **JSON Block**. Please see below for *protection_multi-pu-zone-distribution*

Type: Object

Reference Object: */axapi/v3/ddos/protection/multi-pu-zone-distribution*

non-zero-win-size-syncookie

Description Send syn-cookie with fix TCP window size if SYN packet has zero window size (default disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per-service-szp-entry-limit

Description: per-service-szp-entry-limit is a **JSON Block**. Please see below for *protection_per-service-szp-entry-limit*

Type: Object

Reference Object: */axapi/v3/ddos/protection/per-service-szp-entry-limit*

pkt-rate-limit-on-reassemble

Description 'enable': enable; 'disable': disable (Default);

Type: string

Supported Values: enable, disable

Default: disable

progression-tracking

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

rate-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 100ms

rate-limit-sync-interval

Description Multi-PU rate limit syncing interval (default 3)

Type: number

Range: 1-5

Default: 3

rexmit-syn-log

Description Enable ddos per flow rexmit syn exceeded log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dst-entry-limit

Description '8M': 8 Million; '16M': 16 Million; 'unlimited': Unlimited; 'platform-default': Half of platform maximum;

Type: string

Supported Values: 8M, 16M, unlimited, platform-default

Default: 16M

src-hash-function

Description 'v1': v1; 'v2': v2;

Type: string

Supported Values: v1, v2

Default: v1

src-ip-hash-bit

Description Configure which bit hashed on

Type: number

Range: 0-31

Default: 2

src-ipv6-hash-bit

Description Configure which bit hashed on

Type: number

Range: 0-127

Default: 2

src-zone-port-entry-limit

Description '8M': 8 Million; '16M': 16 Million; 'unlimited': Unlimited; 'platform-default': Half of platform maximum;

Type: string

Supported Values: 8M, 16M, unlimited, platform-default

Default: 16M

szp-clist-warn-threshold

Description Set threshold percentage of “max-src-dst-entry” for generating warning logs. Including start and end.

Type: number

Range: 1-100

szp-warn-exceed-enable

Description Send logs if src-zone-port count exceeds “max-src-dst-entry”

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

szp-warn-threshold

Description Set threshold percentage of “max-src-dst-entry” for generating warning logs. Including start and end.

Type: number

Range: 1-100

toggle

Description ‘enable’: enable; ‘disable’: disable;

Type: string

Supported Values: enable, disable

Default: disable

use-route

Description Use route table, default use receive hop for device initiated traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vxlan-outbound-check

Description ‘enable’: enable; ‘disable’: disable;

Type: string

Supported Values: enable, disable

Default: disable

protection_fast-aging

Specification	Value
Type	*object*

half-open-conn-ratio

Description Minimum half-open session to total session ratio before session fast aging will take effect (default 25)

Type: number

Range: 1-99

Default: 25

half-open-conn-threshold

Description Minimum half-open session (percentage) before session fast aging will take effect (default 1)

Type: number

Range: 1-99

Default: 1

protection_per-service-szp-entry-limit

Specification	Value
Type	*object*

dns-tcp-limit

Description Szp limit for port / port-range dns-tcp

Type: number

Range: 0-2147483647

dns-udp-limit

Description Szp limit for port / port-range dns-udp

Type: number

Range: 0-2147483647

http-limit

Description Szp limit for port / port-range http

Type: number

Range: 0-2147483647

ip-proto-custom-limit

Description Szp limit for custom ip-proto

Type: number

Range: 0-2147483647

ip-proto-gre-limit

Description Szp limit for ip-proto gre

Type: number

Range: 0-2147483647

ip-proto-icmp-v4-limit

Description Szp limit for ip-proto icmp-v4

Type: number

Range: 0-2147483647

ip-proto-icmp-v6-limit

Description Szp limit for ip-proto icmp-v6

Type: number

Range: 0-2147483647

ip-proto-ipv4-encap-limit

Description Szp limit for ip-proto ipv4-encap

Type: number

Range: 0-2147483647

ip-proto-ipv6-encap-limit

Description Szp limit for ip-proto ipv6-encap

Type: number

Range: 0-2147483647

ip-proto-other-limit

Description Szp limit for ip-proto other

Type: number

Range: 0-2147483647

quic-limit

Description Szp limit for port / port-range quic

Type: number

Range: 0-2147483647

sip-tcp-limit

Description Szp limit for port / port-range sip-tcp

Type: number

Range: 0-2147483647

sip-udp-limit

Description Szp limit for port / port-range sip-udp

Type: number

Range: 0-2147483647

ssl-l4-limit

Description Szp limit for port / port-range ssl-l4

Type: number

Range: 0-2147483647

tcp-limit

Description Szp limit for port / port-range tcp

Type: number

Range: 0-2147483647

udp-limit

Description Szp limit for port / port-range udp

Type: number

Range: 0-2147483647

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

protection_ipv6-src-hash-mask-bits

Specification	Value
Type	*object*

mask-bit-offset-1

Description Configure mask bits

Type: number

Range: 0-127

mask-bit-offset-2

Description Configure mask bits

Type: number

Range: 0-127

mask-bit-offset-3

Description Configure mask bits

Type: number

Range: 0-127

mask-bit-offset-4

Description Configure mask bits

Type: number

Range: 0-127

mask-bit-offset-5

Description Configure mask bits

Type: number

Range: 0-127

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

protection_multi-pu-zone-distribution

Specification	Value
Type	*object*

regular-rebalance

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

notification-template-list

Specification	Value
Type	*list*
Block object keys	

api

Description: api is a **JSON Block**. Please see below for *notification-template-list_api*

Type: Object

Reference Object: */axapi/v3/ddos/notification-template/{name}/api*

debug-mode

Description Enable debug mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable

Description Disable the notification template (Disable notification temaplate)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description DDOS nofitication template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

test-connectivity

Description Test connectivity to notification receiver

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

verbose

Description Dump zone IPs to the payload

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

notification-template-list_api

Specification	Value
Type	*object*

authentication

Description: authentication is a **JSON Block**. Please see below for *notification-template-list_api_authentication*

Type: Object

Reference Object: */axapi/v3/ddos/notification-template/{name}/api/authentication*

disable-authentication

Description Disable authentication to communicate to the host

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

host-ipv4-address

Description Configure the host IPv4 address to send notification (IPv4 address of the host)

Type: string

Format: ipv4-address

Mutual Exclusion: host-ipv4-address, host-ipv6-address, and hostname are mutually exclusive

host-ipv6-address

Description Configure the host IPv6 address to send notification (IPv6 address of the host)

Type: string

Format: ipv6-address

Mutual Exclusion: host-ipv6-address, host-ipv4-address, and hostname are mutually exclusive

hostname

Description host name(e.g www.a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: hostname, host-ipv4-address, and host-ipv6-address are mutually exclusive

http-port

Description Configure the http port to use(default 80) (http port(default 80))

Type: number

Range: 1-65535

Default: 80

http-protocol

Description 'http': Use http protocol; 'https': Use https protocol(default); (http protocol)

Type: string

Supported Values: http, https

Default: https

https-port

Description Configure the https port to use(default 443) (https port(default 443))

Type: number

Range: 1-65535

Default: 443

relative-uri

Description Configure the relative uri for the api(e.g /example , default /) (api relative uri)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Default: /

timeout

Description Configure the api execution timeout(default 10secs) (api timeout)

Type: number

Range: 5-60

Default: 10

use-mgmt-port

Description Use management port to send out notification

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

notification-template-list_api_authentication

Specification	Value
Type	*object*

api-key

Description Configure api-key as a mode of authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

api-key-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

api-key-string

Description Configure api-key as a mode of authentication

Type: string

Format: password

Maximum Length: 64 characters

Maximum Length: 1 characters

auth-password

Description Configure the authentication user password (Authentication password)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-password-val

Description Configure the authentication user password (Authentication password)

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

auth-username

Description Configure the authentication user name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

relative-login-uri

Description Configure the authentication login uri

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

relative-logoff-uri

Description Configure the authentication logoff uri

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

notification-template-debug-log

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l7-sip

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

resource-usage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src

Specification	Value
Type	*object*

default-list

Type: List

Reference Object: */axapi/v3/ddos/src/default/{default-address-type}*

dynamic-entries-resource-usage

Description: dynamic-entries-resource-usage is a **JSON Block**. Please see below for *src_dynamic-entries-resource-usage*

Type: Object

Reference Object: */axapi/v3/ddos/src/dynamic-entries-resource-usage*

dynamic-entry

Description: dynamic-entry is a **JSON Block**. Please see below for *src_dynamic-entry*

Type: Object

Reference Object: */axapi/v3/ddos/src/dynamic-entry*

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}*

entry-list

Type: List

Reference Object: */axapi/v3/ddos/src/entry/{src-entry-name}*

geo-location-list

Type: List

Reference Object: */axapi/v3/ddos/src/geo-location/{geolocation-name}*

src_default-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

app-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/default/{default-address-type}/app-type/{protocol}*

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-address-type

Description 'ip': ip; 'ipv6': ipv6;

Type: string

Supported Values: ip, ipv6

disable

Description Disable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *src_default-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/default/{default-address-type}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic src entry

Type: number

Range: 0-2147483647

template

Description: template is a **JSON Block**. Please see below for *src_default-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_default-list_app-type-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *src_default-list_app-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_default-list_app-type-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src_default-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src_default-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *src_default-list_l4-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_default-list_l4-type-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src_default-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src_dynamic-entries-resource-usage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_entry-list

Specification	Value
Type	*list*
Block object keys	

app-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/entry/{src-entry-name}/app-type/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

description

Description Description for this Source Entry

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *src_entry-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

hw-blacklist-blocking

Description: hw-blacklist-blocking is a **JSON Block**. Please see below for *src_entry-list_hw-blacklist-blocking*

Type: Object

Reference Object: */axapi/v3/ddos/src/entry/{src-entry-name}/hw-blacklist-blocking*

ip-addr

Description

Type: string

Format: ipv4-address

ipv6-addr

Description

Type: string

Format: ipv6-address

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/entry/{src-entry-name}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-entry-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

subnet-ip-addr

Description IP Subnet

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description IPV6 Subnet

Type: string

Format: ipv6-address-plen

template

Description: template is a **JSON Block**. Please see below for *src_entry-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_entry-list_app-type-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *src_entry-list_app-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_entry-list_app-type-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src_entry-list_hw-blacklist-blocking

Specification	Value
Type	*object*

src-enable

Description Enable Src side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_entry-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'permit': Whitelist incoming packets for protocol; 'deny': Blacklist incoming packets for protocol;

Type: string

Supported Values: permit, deny

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *src_entry-list_l4-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_entry-list_l4-type-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src_entry-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src_entry-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src_geo-location-list

Specification	Value
Type	*list*
Block object keys	

app-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/geo-location/{geolocation-name}/app-type/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

description

Description Description for this Geolocation Entry

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

geolocation-name

Description Geolocation Name

Type: string

Format: string-rlx

Maximum Length: 15 characters

Maximum Length: 1 characters

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/geo-location/{geolocation-name}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *src_geo-location-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_geo-location-list_app-type-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *src_geo-location-list_app-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_geo-location-list_app-type-list_template

Specification	Value
Type	*object*

dns

Description DDOS DNS template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS HTTP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src_geo-location-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'permit': Whitelist incoming packets for protocol; 'deny': Blacklist incoming packets for protocol;

Type: string

Supported Values: permit, deny

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *src_geo-location-list_l4-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_geo-location-list_l4-type-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS ICMP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src_geo-location-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

app-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/app-type/{protocol}*

default-address-type

Description 'ip': ip; 'ipv6': ipv6;

Type: string

Supported Values: ip, ipv6

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *src_dynamic-entry-overflow-policy-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *src_dynamic-entry-overflow-policy-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_dynamic-entry-overflow-policy-list_app-type-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *src_dynamic-entry-overflow-policy-list_app-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_dynamic-entry-overflow-policy-list_app-type-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src_dynamic-entry-overflow-policy-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src_dynamic-entry-overflow-policy-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *src_dynamic-entry-overflow-policy-list_l4-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src_dynamic-entry-overflow-policy-list_l4-type-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src_dynamic-entry-overflow-policy-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

with-sflow-sample

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src_dynamic-entry

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

protect

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

resource-tracking

Specification	Value
Type	*object*

cpu

Description: cpu is a **JSON Block**. Please see below for *resource-tracking_cpu*

Type: Object

Reference Object: */axapi/v3/ddos/resource-tracking/cpu*

resource-tracking_cpu

Specification	Value
Type	*object*

enable

Description Enable CPU usage tracking per dst object (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-object-list

Specification	Value
Type	*list*
Block object keys	

anomaly-detection-trigger

Description 'all': Use both learned and static thresholds (static thresholds take precedence); 'static-threshold-only': Use static thresholds only;

Type: string

Supported Values: all, static-threshold-only

Default: all

enable-top-k

Type: List

flooding-multiplier

Description multiplier for flooding detection threshold in network objects (default 2x threshold)

Type: number

Range: 2-10

Default: 2

histogram-mode

Description 'off': histogram feature disabled; 'monitor': histogram feature enabled with anomaly escalation; 'observe': histogram feature enabled and observe only;

Type: string

Supported Values: off, monitor, observe

Default: observe

host-anomaly-threshold

Description: host-anomaly-threshold is a **JSON Block**. Please see below for *network-object-list_host-anomaly-threshold*

Type: Object

host-sport-discovery

Description 'enable': Enable source port discovery.; 'disable': Disable source port discovery.;

Type: string

Supported Values: enable, disable

indicators-to-monitor

Description: indicators-to-monitor is a **JSON Block**. Please see below for *network-object-list_indicators-to-monitor*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/indicators-to-monitor*

ip-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}*

ipv6-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}*

network-object-anomaly-threshold

Description: network-object-anomaly-threshold is a **JSON Block**. Please see below for *network-object-list_network-object-anomaly-threshold*

Type: Object

notification

Description: notification is a **JSON Block**. Please see below for *network-object-list_notification*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/notification*

object-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

operational-mode

Description 'monitor': Monitor mode; 'learning': Learning mode;

Type: string

Supported Values: monitor, learning

Default: learning

relative-auto-break-down-threshold

Description: relative-auto-break-down-threshold is a **JSON Block**. Please see below for *network-object-list_relative-auto-break-down-threshold*

Type: Object

sampling-enable

Type: List

service-break-down-threshold-local

Description: service-break-down-threshold-local is a **JSON Block**. Please see below for *network-object-list_service-break-down-threshold-local*

Type: Object

service-discovery

Description 'disable': Disable service discovery for hosts (default: enabled);

Type: string

Supported Values: disable

sport-anomaly-detection

Description 'disable': Disable source port anomaly detection (default: enabled);

Type: string

Supported Values: disable

sport-anomaly-threshold

Description: sport-anomaly-threshold is a **JSON Block**. Please see below for *network-object-list_sport-anomaly-threshold*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold*

sport-discovery-threshold

Description: sport-discovery-threshold is a **JSON Block**. Please see below for *network-object-list_sport-discovery-threshold*

Type: Object

sport-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport/{port-num}+{protocol}*

static-auto-break-down-threshold

Description: static-auto-break-down-threshold is a **JSON Block**. Please see below for *network-object-list_static-auto-break-down-threshold*

Type: Object

sub-network

Description: sub-network is a **JSON Block**. Please see below for *network-object-list_sub-network*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sub-network*

threshold-sensitivity

Description tune threshold ranges with levels LOW/MEDIUM/HIGH/OFF(default) or multiplier of threshold value (available options are LOW=5x/MEDIUM=3x/HIGH=1.5x/OFF=1x, or float value between 1.0-10.0)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Default: OFF

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *network-object-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/topk-destinations*

trustlist

Description: trustlist is a **JSON Block**. Please see below for *network-object-list_trustlist*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/trustlist*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-object-list_service-break-down-threshold-local

Specification	Value
Type	*object*

svc-percentage

Description percentage of parent ip node

Type: number

Range: 5-99

network-object-list_network-object-anomaly-threshold

Specification	Value
Type	*object*

network-object-bit-rate

Description Bit rate of the network-object

Type: number

Range: 800-87960930222080

network-object-pkt-rate

Description Packet rate of the network-object

Type: number

Range: 1-10995116277760

network-object-list_indicators-to-monitor

Specification	Value
Type	*object*

enable

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-bit-rate

Description Forward bit rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-fin-rate

Description FIN packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-flow-count

Description Flow count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-icmp-pkt-rate

Description ICMP packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-pkt-rate

Description Forward packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-rev-bit-rate

Description Reverse bit rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-rev-pkt-rate

Description Reverse packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-rst-rate

Description RST packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-syn-rate

Description SYN packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-tcp-pkt-rate

Description TCP packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-udp-pkt-rate

Description UDP packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-undiscovered-pkt-rate

Description Undiscovered forward packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-object-list_trustlist

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-class-list

Description IPv4 Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

v6-class-list

Description IPv6 Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

network-object-list_relative-auto-break-down-threshold

Specification	Value
Type	*object*

network-percentage

Description percentage of parent node

Type: number

Range: 1-99

permil

Description permil of root node

Type: number

Range: 1-999

network-object-list_host-anomaly-threshold

Specification	Value
Type	*object*

host-bit-rate

Description Forward bit rate of per host

Type: number

Range: 800-34359738360

host-fin-rate

Description FIN packet rate of per host

Type: number

Range: 1-2147483647

host-flow-count

Description Flow count of per host

Type: number

Range: 1-2147483647

host-icmp-pkt-rate

Description ICMP packet rate of per host

Type: number

Range: 1-2147483647

host-pkt-rate

Description Forward packet rate of per host

Type: number

Range: 1-2147483647

host-rev-bit-rate

Description Reverse bit rate of per host

Type: number

Range: 800-34359738360

host-rev-pkt-rate

Description Reverse packet rate of per host

Type: number

Range: 1-2147483647

host-rst-rate

Description RST packet rate of per host

Type: number

Range: 1-2147483647

host-syn-rate

Description SYN packet rate of per host

Type: number

Range: 1-2147483647

host-tcp-pkt-rate

Description Tcp packet rate of per host

Type: number

Range: 1-2147483647

host-udp-pkt-rate

Description Udp packet rate of per host

Type: number

Range: 1-2147483647

host-undiscovered-host-bit-rate

Description Forward bit rate of per undiscovered host

Type: number

Range: 800-34359738360

host-undiscovered-host-pkt-rate

Description forward packet rate of per undiscovered host

Type: number

Range: 1-2147483647

host-undiscovered-pkt-rate

Description Undiscovered forward packet rate of per host

Type: number

Range: 1-2147483647

network-object-list_sub-network

Specification	Value
Type	*object*

sub-network-v4-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}*

sub-network-v6-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}*

network-object-list_sub-network_sub-network-v4-list

Specification	Value
Type	*list*
Block object keys	

breakdown-subnet-threshold

Description: breakdown-subnet-threshold is a **JSON Block**. Please see below for *network-object-list_sub-network_sub-network-v4-list_breakdown-subnet-threshold*

Type: Object

host-anomaly-threshold

Description: host-anomaly-threshold is a **JSON Block**. Please see below for *network-object-list_sub-network_sub-network-v4-list_host-anomaly-threshold*

Type: Object

sampling-enable

Type: List

sub-network-anomaly-threshold

Description: sub-network-anomaly-threshold is a **JSON Block**. Please see below for *network-object-list_sub-network_sub-network-v4-list_sub-network-anomaly-threshold*

Type: Object

subnet-breakdown

Description additional layer of breakdown subnet

Type: number

Range: 25-31

subnet-ip-addr

Description IPv4 Subnet/host, supported prefix range is from 24 to 32

Type: string

Format: ipv4-cidr

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-object-list_sub-network_sub-network-v4-list_sub-network-anomaly-threshold

Specification	Value
Type	*object*

static-sub-network-bit-rate

Description Bit rate of the sub-network

Type: number

Range: 800-34359738360

static-sub-network-pkt-rate

Description Packet rate of the sub-network

Type: number

Range: 1-2147483647

network-object-list_sub-network_sub-network-v4-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_rate': PPS; 'bit_rate': B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

network-object-list_sub-network_sub-network-v4-list_breakdown-subnet-threshold

Specification	Value
Type	*object*

breakdown-subnet-bit-rate

Description Bit rate of per host

Type: number

Range: 800-34359738360

breakdown-subnet-pkt-rate

Description Packet rate of per host

Type: number

Range: 1-2147483647

network-object-list_sub-network_sub-network-v4-list_host-anomaly-threshold

Specification	Value
Type	*object*

static-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-fin-rate-threshold

Description FIN packet rate of per host

Type: number

Range: 1-2147483647

static-flow-count-threshold

Description Flow count of per host

Type: number

Range: 1-2147483647

static-icmp-pkt-rate-threshold

Description ICMP packet rate of per host

Type: number

Range: 1-2147483647

static-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rev-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-rev-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rst-rate-threshold

Description RST packet rate of per host

Type: number

Range: 1-2147483647

static-syn-rate-threshold

Description SYN packet rate of per host

Type: number

Range: 1-2147483647

static-tcp-pkt-rate-threshold

Description TCP packet rate of per host

Type: number

Range: 1-2147483647

static-udp-pkt-rate-threshold

Description UDP packet rate of per host

Type: number

Range: 1-2147483647

static-undiscovered-host-bit-rate-threshold

Description Bit rate of per undiscovered host

Type: number

Range: 800-34359738360

static-undiscovered-host-pkt-rate-threshold

Description packet rate of per undiscovered host

Type: number

Range: 1-2147483647

static-undiscovered-pkt-rate-threshold

Description Undiscovered packet rate of per host

Type: number

Range: 1-2147483647

network-object-list_sub-network_sub-network-v6-list

Specification	Value
Type	*list*
Block object keys	

host-anomaly-threshold

Description: host-anomaly-threshold is a **JSON Block**. Please see below for *network-object-list_sub-network_sub-network-v6-list_host-anomaly-threshold*

Type: Object

sampling-enable

Type: List

sub-network-anomaly-threshold

Description: sub-network-anomaly-threshold is a **JSON Block**. Please see below for *network-object-list_sub-network_sub-network-v6-list_sub-network-anomaly-threshold*

Type: Object

subnet-breakdown

Description additional layer of breakdown subnet

Type: number

Range: 57-63

subnet-ipv6-addr

Description IPv6 Subnet/host, supported prefix range is from 56 to 64

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-object-list_sub-network_sub-network-v6-list_sub-network-anomaly-threshold

Specification	Value
Type	*object*

static-sub-network-bit-rate

Description Bit rate of the sub-network

Type: number

Range: 800-34359738360

static-sub-network-pkt-rate

Description Packet rate of the sub-network

Type: number

Range: 1-2147483647

network-object-list_sub-network_sub-network-v6-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_rate': PPS; 'bit_rate': B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

network-object-list_sub-network_sub-network-v6-list_host-anomaly-threshold

Specification	Value
Type	*object*

static-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-fin-rate-threshold

Description FIN packet rate of per host

Type: number

Range: 1-2147483647

static-flow-count-threshold

Description Flow count of per host

Type: number

Range: 1-2147483647

static-icmp-pkt-rate-threshold

Description ICMP packet rate of per host

Type: number

Range: 1-2147483647

static-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rev-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-rev-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rst-rate-threshold

Description RST packet rate of per host

Type: number

Range: 1-2147483647

static-syn-rate-threshold

Description SYN packet rate of per host

Type: number

Range: 1-2147483647

static-tcp-pkt-rate-threshold

Description TCP packet rate of per host

Type: number

Range: 1-2147483647

static-udp-pkt-rate-threshold

Description UDP packet rate of per host

Type: number

Range: 1-2147483647

static-undiscovered-host-bit-rate-threshold

Description Bit rate of per undiscovered host

Type: number

Range: 800-34359738360

static-undiscovered-host-pkt-rate-threshold

Description packet rate of per undiscovered host

Type: number

Range: 1-2147483647

static-undiscovered-pkt-rate-threshold

Description Undiscovered packet rate of per host

Type: number

Range: 1-2147483647

network-object-list_notification

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

notification

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-object-list_notification_notification

Specification	Value
Type	*list*
Block object keys	

notification-template-name

Description Specify the notification template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/notification-template*

network-object-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-object-list_sport-discovery-threshold

Specification	Value
Type	*object*

sport-discovery-bit-rate-percentage

Description Percentage of the bit rate of source port's parent entry

Type: number

Range: 0-99

sport-heavy-hitter-percentage

Description Percentage of the bit rate of undiscovered source ports (default: 10)

Type: number

Range: 0-99

Default: 10

network-object-list_sport-list

Specification	Value
Type	*list*
Block object keys	

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-object-list_ip-list

Specification	Value
Type	*list*
Block object keys	

prefix-anomaly-threshold

Description: prefix-anomaly-threshold is a **JSON Block**. Please see below for *network-object-list_ip-list_prefix-anomaly-threshold*

Type: Object

sampling-enable

Type: List

subnet-ip-addr

Description IP Subnet, supported prefix range is from 8 to 32

Type: string

Format: ipv4-cidr

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-object-list_ip-list_prefix-anomaly-threshold

Specification	Value
Type	*object*

prefix-bit-rate

Description Bit rate of the prefix subnet

Type: number

Range: 800-34359738360

prefix-pkt-rate

Description Packet rate of the prefix subnet

Type: number

Range: 1-2147483647

network-object-list_ip-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_rate': PPS; 'bit_rate': B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

network-object-list_sport-anomaly-threshold

Specification	Value
Type	*object*

bit-rate

Description: bit-rate is a **JSON Block**. Please see below for *network-object-list_sport-anomaly-threshold_bit-rate*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate*

bit-rate-percentage

Description: bit-rate-percentage is a **JSON Block**. Please see below for *network-object-list_sport-anomaly-threshold_bit-rate-percentage*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate-percentage*

ip-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ip/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}*

ipv6-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ipv6/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}*

packet-rate

Description: packet-rate is a **JSON Block**. Please see below for *network-object-list_sport-anomaly-threshold_packet-rate*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate*

packet-rate-percentage

Description: packet-rate-percentage is a **JSON Block**. Please see below for *network-object-list_sport-anomaly-threshold_packet-rate-percentage*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate-percentage*

sport-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/sport/{sport-num}+{protocol}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}*

network-object-list_sport-anomaly-threshold_bit-rate-percentage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

network-object-list_sport-anomaly-threshold_bit-rate

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

network-object-list_sport-anomaly-threshold_sport-list

Specification	Value
Type	*list*
Block object keys	

bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

sport-num

Description Port Number

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-object-list_sport-anomaly-threshold_ip-list

Specification	Value
Type	*list*
Block object keys	

bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-addr

Description Override threshold

Type: string

Format: ipv4-address

ip-sport-bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

ip-sport-bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

ip-sport-bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-sport-packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

ip-sport-packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

ip-sport-packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

sport-num

Description Source port number

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-object-list_sport-anomaly-threshold_ipv6-list

Specification	Value
Type	*list*
Block object keys	

bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-addr

Description Override threshold

Type: string

Format: ipv6-address-plen

ip-sport-bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

ip-sport-bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

ip-sport-bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-sport-packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

ip-sport-packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

ip-sport-packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

sport-num

Description Source port number

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-object-list_sport-anomaly-threshold_packet-rate

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

network-object-list_sport-anomaly-threshold_packet-rate-percentage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

network-object-list_static-auto-break-down-threshold

Specification	Value
Type	*object*

network-pkt-rate

Description packet rate of current node

Type: number

Range: 100-2000000

network-object-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'subnet_learned': Subnet Entry Learned; 'subnet_aged': Subnet Entry Aged; 'subnet_create_fail': Subnet Entry Create Failures; 'ip_learned': IP Entry Learned; 'ip_aged': IP Entry Aged; 'ip_create_fail': IP Entry Create Failures; 'service_learned': Service Entry Learned; 'service_aged': Service Entry Aged; 'service_create_fail': Service Entry Create Failures; 'packet_rate': PPS; 'bit_rate': B(bits)PS; 'topk_allocate_fail': Topk Allocate Failures; 'sport_learned': Source Port Entry Learned; 'sport_aged': Source Port Entry Aged; 'sport_create_fail': Source Port Entry Create Failures; 'agent_group_learned': Agent Group Entry Learned; 'agent_group_aged': Agent Group Entry Aged; 'agent_group_create_fail': Agent Group Entry Create Failures; 'duplicate_sample_pkt_rcv': Duplicate Sample Packet Received;

Type: string

Supported Values: all, subnet_learned, subnet_aged, subnet_create_fail, ip_learned, ip_aged, ip_create_fail, service_learned, service_aged, service_create_fail, packet_rate, bit_rate, topk_allocate_fail, sport_learned, sport_aged, sport_create_fail, agent_group_learned, agent_group_aged, agent_group_create_fail, duplicate_sample_pkt_rcv

network-object-list_enable-top-k

Specification	Value
Type	*list*
Block object keys	

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'average': window average; 'max-peak': max peak;

Type: string

Supported Values: average, max-peak

Default: average

topk-type

Description 'destination': Topk destination IP;

Type: string

Supported Values: destination

network-object-list_ipv6-list

Specification	Value
Type	*list*
Block object keys	

prefix-anomaly-threshold

Description: prefix-anomaly-threshold is a **JSON Block**. Please see below for *network-object-list_ipv6-list_prefix-anomaly-threshold*

Type: Object

sampling-enable

Type: List

subnet-ipv6-addr

Description IPV6 Subnet, supported prefix range is from 40 to 64

Type: string

Format: ipv6-address-plen

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-object-list_ipv6-list_prefix-anomaly-threshold

Specification	Value
Type	*object*

prefix-bit-rate

Description Bit rate of the prefix subnet

Type: number

Range: 800-34359738360

prefix-pkt-rate

Description Packet rate of the prefix subnet

Type: number

Range: 1-2147483647

network-object-list_ipv6-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_rate': PPS; 'bit_rate': B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

l7-quic

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l7-quic_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'quic_packet_received': QUIC Packet Received; 'quic_initial_received': QUIC Initial Packet Received; 'quic_version_negotiation_received': QUIC Version Negotiation Received; 'quic_retry_received': QUIC Retry Received; 'quic_0rtt_recevied': QUIC 0RTT Received; 'quic_handshake_received': QUIC Handshake Received; 'quic_version_match_action_taken': QUIC Version Match Action Taken; 'quic_version_match_action_drop': QUIC Version Match Action Drop; 'quic_version_match_action_blacklist': QUIC Version Match Action Blacklist; 'quic_malformed_action_taken': QUIC Malformed Action Taken; 'quic_malformed_action_drop': QUIC Malformed Action Drop; 'quic_malformed_action_blacklist': QUIC Malformed Action Blacklist; 'quic_malformed_dcid_len_max_exceed': QUIC Malformed DCID Len Max Exceed; 'quic_malformed_scid_len_max_exceed': QUIC Malformed SCID Len Max Exceed; 'quic_fixed_bit_not_set': QUIC Fixed Bit Not Set; 'quic_retry_auth_sent': QUIC Retry Auth Sent; 'quic_retry_auth_pass': QUIC Retry Auth Pass; 'quic_retry_auth_fail': QUIC Retry Auth Fail; 'quic_connection_close_sent': QUIC Connection Close Sent; 'quic_invalid_retry_token': QUIC Invalid Retry Token; 'quic_short_header_received': QUIC Short Header Received; 'quic_short_headr_action_drop': QUIC Short Header Drop; 'quic_encrypt_fail': QUIC Encrypt Fail; 'quic_decrypt_fail': QUIC Decrypt Fail; 'quic_encrypt_success': QUIC Encrypt Success; 'quic_decrypt_success': QUIC Decrypt Success; 'quic_0rtt_drop': QUIC 0RTT Drop; 'quic_aead_pkt_rate_exceed': QUIC AEAD Packet Rate Exceed; 'quic_dcid_pkt_rate_exceed': QUIC DCID Packet Rate Exceed; 'quic_create_conn_init_only': QUIC Create Connection on Initial Only;

Type: string

Supported Values: all, quic_packet_received, quic_initial_received, quic_version_negotiation_received, quic_retry_received, quic_0rtt_recevied, quic_handshake_received, quic_version_match_action_taken,

quic_version_match_action_drop, quic_version_match_action_blacklist, quic_malformed_action_taken, quic_malformed_action_drop, quic_malformed_action_blacklist, quic_malformed_dcid_len_max_exceed, quic_malformed_scid_len_max_exceed, quic_fixed_bit_not_set, quic_retry_auth_sent, quic_retry_auth_pass, quic_retry_auth_fail, quic_connection_close_sent, quic_invalid_retry_token, quic_short_header_received, quic_short_headr_action_drop, quic_encrypt_fail, quic_decrypt_fail, quic_encrypt_success, quic_decrypt_success, quic_0rtt_drop, quic_aead_pkt_rate_exceed, quic_dcid_pkt_rate_exceed, quic_create_conn_init_only

dns-logging-list

Specification	Value
Type	*list*
Block object keys	

disable

Description Disable DNS Logging template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-logging-protocol

Description 'both': Log DNS over tcp and udp; 'tcp': Log DNS over tcp; 'udp': Log DNS over udp;

Type: string

Supported Values: both, tcp, udp

dns-logging-request-section

Description 'all': Log DNS header and question section; 'header': Log DNS header information; 'question': Log DNS question section;

Type: string

Supported Values: all, header, question

dns-logging-type

Description 'query': DNS Query Logging;

Type: string

Supported Values: query

name

Description DNS Logging Template Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l7-dns

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tunnel

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

anomaly

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

use-default-route

Specification	Value
Type	*object*

ethernet-start-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

use-default-route_ethernet-start-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description

Type: number

Format: interface

ethernet-start

Description Traffic receive from the ethernet port will use default route

Type: number

Format: interface

event-filter-list

Specification	Value
Type	*list*
Block object keys	

black-list

Description: black-list is a **JSON Block**. Please see below for *event-filter-list_black-list*

Type: Object

drop

Description: drop is a **JSON Block**. Please see below for *event-filter-list_drop*

Type: Object

filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/event-filter/{filter-name}/l4-type/{protocol}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

white-list

Description: white-list is a **JSON Block**. Please see below for *event-filter-list_white-list*

Type: Object

event-filter-list_black-list

Specification	Value
Type	*object*

black-list-dst

Description Dst entry/port is black-listed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

black-list-src

Description Src entry/port is black-listed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

event-filter-list_drop

Specification	Value
Type	*object*

drop-black-list

Description Packet is dropped because of black-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-dst

Description Packet is dropped because of dst

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-src

Description Packet is dropped because of src

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

event-filter-list_white-list

Specification	Value
Type	*object*

white-list-dst

Description Dst entry/port is white-listed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

white-list-src

Description Src entry/port is white-listed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

event-filter-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

out-of-seq

Description TCP out-of-seq pkts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

protocol

Description 'tcp': tcp; 'udp': udp;

Type: string

Supported Values: tcp, udp

retrans-syn-cfg

Description: retrans-syn-cfg is a **JSON Block**. Please see below for *event-filter-list_l4-type-list_retrans-syn-cfg*

Type: Object

tcp-auth

Description: tcp-auth is a **JSON Block**. Please see below for *event-filter-list_l4-type-list_tcp-auth*

Type: Object

udp-auth

Description: udp-auth is a **JSON Block**. Please see below for *event-filter-list_l4-type-list_udp-auth*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zero-window

Description TCP zero window pkts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

event-filter-list_l4-type-list_tcp-auth

Specification	Value
Type	*object*

tcp-auth-fail

Description Packet that fails syn-auth/action-on-ack

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-auth-init

Description Packet that inits syn-auth/action-on-ack

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-auth-pass

Description Packet that passes syn-auth/action-on-ack

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

event-filter-list_l4-type-list_udp-auth

Specification	Value
Type	*object*

udp-auth-init

Description Packet that inits spoof-detect

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-auth-pass

Description Packet that passes spoof-detect

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

event-filter-list_l4-type-list_retrans-syn-cfg

Specification	Value
Type	*object*

retrans-syn

Description TCP SYN retransmission

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

retrans-syn-exceed

Description TCP SYN retransmission exceed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-cache-server

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

switch

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l7-http

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

action-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description: action is a **JSON Block**. Please see below for *action-list-list_action*

Type: Object

capture-config

Description capture-config name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

name

Description DDOS action-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *action-list-list_zone-template*

Type: Object

action-list-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/zone-template/encap*

logging

Description DDOS logging zone-template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/zone-template/logging*

action-list-list_action

Specification	Value
Type	*object*

action

Description 'drop': Drop Packet (Default); 'ignore': Continue processing the packet; 'reset': Reset the connection; 'authenticate-src': Authenticate the source IP; 'blacklist-src': Black-list the source IP; 'tunnel-encap-packet': Encapsulate packet for tunneling. encap template need to be bound;

Type: string

Supported Values: drop, ignore, reset, authenticate-src, blacklist-src, tunnel-encap-packet

blacklist-src-value

Description blacklist duration in minutes

Type: number

Range: 1-30

scrub-packet

Description allow packets to go through other DDoS checks before sent out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

stateless

Description encapsulate all packests

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-src-port-template

Specification	Value
Type	*object*

dns-list

Type: List

Reference Object: */axapi/v3/ddos/zone-src-port-template/dns/{name}*

tcp-list

Type: List

Reference Object: */axapi/v3/ddos/zone-src-port-template/tcp/{name}*

udp-list

Type: List

Reference Object: */axapi/v3/ddos/zone-src-port-template/udp/{name}*

zone-src-port-template_udp-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-src-port-template/udp/{name}/filter/{udp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

max-payload-size-cfg

Description: max-payload-size-cfg is a **JSON Block**. Please see below for *zone-src-port-template_udp-list_max-payload-size-cfg*

Type: Object

min-payload-size-cfg

Description: min-payload-size-cfg is a **JSON Block**. Please see below for *zone-src-port-template_udp-list_min-payload-size-cfg*

Type: Object

name

Description DDOS UDP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ntp-monlist-cfg

Description: ntp-monlist-cfg is a **JSON Block**. Please see below for *zone-src-port-template_udp-list_ntp-monlist-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-src-port-template_udp-list_ntp-monlist-cfg

Specification	Value
Type	*object*

ntp-monlist

Description Take action for ntp monlist request/response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ntp-monlist-action

Description 'drop': Drop packets for ntp-monlist (Default); 'blacklist-src': Blacklist-src for ntp-monlist; 'ignore': Ignore ntp-monlist;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: ntp-monlist-action and ntp-monlist-action-list-name are mutually exclusive

ntp-monlist-action-list-name

Description Configure action-list to take for ntp-monlist

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ntp-monlist-action-list-name and ntp-monlist-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-src-port-template_udp-list_max-payload-size-cfg

Specification	Value
Type	*object*

max-payload-size

Description Maximum UDP payload size for each single packet

Type: number

Range: 1-1470

max-payload-size-action

Description 'drop': Drop packets for max-payload-size exceed (Default); 'blacklist-src': Blacklist-src for max-payload-size exceed; 'ignore': Do nothing for max-payload-size exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: max-payload-size-action and max-payload-size-action-list-name are mutually exclusive

max-payload-size-action-list-name

Description Configure action-list to take for max-payload-size exceed

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

Mutual Exclusion: max-payload-size-action-list-name and max-payload-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-src-port-template_udp-list_min-payload-size-cfg

Specification	Value
Type	*object*

min-payload-size

Description Minimum UDP payload size for each single packet

Type: number

Range: 1-1470

min-payload-size-action

Description 'drop': Drop packets for min-payload-size (Default); 'blacklist-src': Blacklist-src for min-payload-size; 'ignore': Do nothing for min-payload-size exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: min-payload-size-action and min-payload-size-action-list-name are mutually exclusive

min-payload-size-action-list-name

Description Configure action-list to take for min-payload-size exceed

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

Mutual Exclusion: min-payload-size-action-list-name and min-payload-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zone-src-port-template_udp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Mutual Exclusion: udp-filter-action and udp-filter-action-list-name are mutually exclusive

udp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp-filter-action-list-name and udp-filter-action are mutually exclusive

udp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-src-port-template_dns-list

Specification	Value
Type	*list*
Block object keys	

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

query-resolution-check

Description: query-resolution-check is a **JSON Block**. Please see below for *zone-src-port-template_dns-list_query-resolution-check*

Type: Object

Reference Object: */axapi/v3/ddos/zone-src-port-template/dns/{name}/query-resolution-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-src-port-template_dns-list_query-resolution-check

Specification	Value
Type	*object*

big-response-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

big-response-size

Description Max DNS response size (in Bytes)

Type: number

Range: 1-4096

domain-lockup-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

session-timeout-value

Description max session timeout (secs) between DNS external server and Protected object

Type: number

Range: 1-30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-src-port-template_tcp-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-src-port-template/tcp/{name}/filter/{tcp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-src-port-template_tcp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Mutual Exclusion: tcp-filter-action and tcp-filter-action-list-name are mutually exclusive

tcp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp-filter-action-list-name and tcp-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

tcp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

multi-pu-traffic-stats

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-udp

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-cache-list

Specification	Value
Type	*list*
Block object keys	

any-query-action-str

Description 'respond-refuse': Send refuse response (default); 'respond-empty': Send empty response; 'drop': Drop the request;

Type: string

Supported Values: respond-refuse, respond-empty, drop

Default: respond-refuse

default-serving-action

Description 'serve-from-cache': Serve DNS records; 'forward': Forward to DNS server; 'drop': Drop the request;

Type: string

Supported Values: serve-from-cache, forward, drop

Default: serve-from-cache

dns-logging

Description DNS logging template

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

domain-group

Description: domain-group is a **JSON Block**. Please see below for *dns-cache-list_domain-group*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache/{name}/domain-group*

edns-udp-size

Description Set the maximum EDNS UDP message size

Type: number

Range: 512-4096

fqdn-manual-override-action-list

Type: List

Reference Object: */axapi/v3/ddos/dns-cache/{name}/fqdn-manual-override-action/{fqdn-name}*

name

Description DNS Cache Instance Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

neg-cache-action-follow-q-rate

Description Negative cached response queries counted toward query-rate-threshold

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

non-authoritative-zone-query-action-str

Description 'default': Default action: respond-refuse; 'forward': Forward to DNS server; 'respond-refuse': Send refuse response; 'drop': Drop the request;

Type: string

Supported Values: default, forward, respond-refuse, drop

Default: respond-refuse

respond-servfail

Description Respond with SERVFAIL for expired zones and zones failing to cache

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Type: List

sharded-domain-group-list

Type: List

Reference Object: */axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-domain-lookup-miss-action

Description 'respond-nxdomain': Send NxDomain response; 'drop': Drop the request;

Type: string

Supported Values: respond-nxdomain, drop

Default: respond-nxdomain

zone-manual-override-action-list

Type: List

Reference Object: */axapi/v3/ddos/dns-cache/{name}/zone-manual-override-action/{zone-name}*

zone-transfer

Description: zone-transfer is a **JSON Block**. Please see below for *dns-cache-list_zone-transfer*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache/{name}/zone-transfer*

dns-cache-list_domain-group

Specification	Value
Type	*object*

domain-list-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}*

name

Description DNS domain group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-cache-list_domain-group_domain-list-policy-list

Specification	Value
Type	*list*
Block object keys	

cache-all-records

Description cache all fqdn records including uncommon types

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: cache-all-records and cache-dnssec-records are mutually exclusive

cache-dnssec-records

Description cache all DNSSEC FQDN records types

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: cache-dnssec-records and cache-all-records are mutually exclusive

client-ipv4

Description Client ipv4 address

Type: string

Format: ipv4-address

client-ipv6

Description Client ipv6 address

Type: string

Format: ipv6-address

dns-notify-enable-ipv4

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-notify-enable-ipv6

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force

Description Force update even the serial is the same

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-refresh

Description Manually refresh the particular zone

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

name

Description DNS domain list policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oversize-answer-response

Description 'set-truncate-bit': Set the TC bit for oversize answer(default); 'disable-truncate-bit': Do not set TC bit for oversize answer;

Type: string

Supported Values: set-truncate-bit, disable-truncate-bit

Default: set-truncate-bit

packet-capturing

Description: packet-capturing is a **JSON Block**. Please see below for *dns-cache-list_domain-group_domain-list-policy-list_packet-capturing*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}/packet-capturing*

refresh-interval-hours

Description Zone transfer refresh rate in hours (Default 4). 0 means no refresh

Type: number

Range: 0-24

Default: 4

resolve-cname-record

Description Always try to resolve domain in CNAME record answer section

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

respond-with-authority

Description Respond with authority section for all requests under this list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

server-ipv4

Description Master ipv4 address

Type: string

Format: ipv4-address

server-ipv6

Description Master ipv6 address

Type: string

Format: ipv6-address

server-v4-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

server-v6-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

ttl-override

Description Override the TTL value for zone transfer

Type: number

Range: 1-2147483647

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-cache-list_domain-group_domain-list-policy-list_packet-capturing

Specification	Value
Type	*object*

root-zone-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-cache-list_domain-group_domain-list-policy-list_packet-capturing_root-zone-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

capture-mode

Description 'regular': Capture packet anyway; 'capture-on-failure': Capture packet if last XFR was failed;

Type: string

Supported Values: regular, capture-on-failure

root-zone

Description Specify root zone to be captured

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

dns-cache-list_fqdn-manual-override-action-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'default': Default; 'forward': Forward to DNS server; 'drop': Drop the request; 'serve-from-cache': Serve DNS records;

Type: string

Supported Values: default, forward, drop, serve-from-cache

fqdn-name

Description Specify fqdn name

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

dns-cache-list_zone-transfer

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-cache-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total-cached-fqdn': total-cached-fqdn; 'total-cached-records': total-cached-records; 'fqdn-a': fqdn-a; 'fqdn-aaaa': fqdn-aaaa; 'fqdn-cname': fqdn-cname; 'fqdn-ns': fqdn-ns; 'fqdn-mx': fqdn-mx; 'fqdn-soa': fqdn-soa; 'fqdn-srv': fqdn-srv; 'fqdn-txt': fqdn-txt; 'fqdn-ptr': fqdn-ptr; 'fqdn-other': fqdn-other; 'fqdn-wildcard': fqdn-wildcard; 'fqdn-delegation': fqdn-delegation; 'shard-size': shard-size; 'resp-ext-size': resp-ext-size; 'a-record': a-record; 'aaaa-record': aaaa-record; 'cname-record': cname-record; 'ns-record': ns-record; 'mx-record': mx-record; 'soa-record': soa-record; 'srv-record': srv-record; 'txt-record': txt-record; 'ptr-record': ptr-record; 'other-record': other-record; 'fqdn-in-shard-filter': fqdn-in-shard-filter;

Type: string

Supported Values: all, total-cached-fqdn, total-cached-records, fqdn-a, fqdn-aaaa, fqdn-cname, fqdn-ns, fqdn-mx, fqdn-soa, fqdn-srv, fqdn-txt, fqdn-ptr, fqdn-ta, fqdn-ds, fqdn-rrsig, fqdn-nsec, fqdn-dnskey, fqdn-nsec3, fqdn-nsec3param, fqdn-cds, fqdn-cdnskey, fqdn-other, fqdn-wildcard, fqdn-delegation, shard-size, resp-ext-size, a-record, aaaa-record, cname-record, ns-record, mx-record, soa-record, srv-record, txt-record, ptr-record, ta-record, ds-record, rrsig-record, nsec-record, dnskey-record, nsec3-record, nsec3param-record, cds-record, cdnskey-record, other-record, fqdn-in-shard-filter, alias-record, fqdn-alias

dns-cache-list_zone-manual-override-action-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'default': Default; 'forward': Forward to DNS server; 'drop': Drop the request; 'serve-from-cache': Serve DNS records;

Type: string

Supported Values: default, forward, drop, serve-from-cache

zone-name

Description Specify zone name

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

dns-cache-list_sharded-domain-group-list

Specification	Value
Type	*list*
Block object keys	

encap-template

Description DDOS encap template to sepcify the tunnel endpoint

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

match-action

Description 'forward': Forward query to server (default); 'tunnel-encap': Encapsulate the query and send on a tunnel;

Type: string

Supported Values: forward, tunnel-encap

Default: forward

name

Description DNS sharded domain group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sharded-domain-list-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-cache-list_sharded-domain-group-list_sharded-domain-list-policy-list

Specification	Value
Type	*list*
Block object keys	

client-ipv4

Description Client ipv4 address

Type: string

Format: ipv4-address

client-ipv6

Description Client ipv6 address

Type: string

Format: ipv6-address

dns-notify-enable-ipv4

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-notify-enable-ipv6

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force

Description Force update even the serial is the same

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-refresh

Description Manually refresh the particular zone

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

name

Description DNS sharded domain list policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capturing

Description: packet-capturing is a **JSON Block**. Please see below for *dns-cache-list_sharded-domain-group-list_sharded-domain-list-policy-list_packet-capturing*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}/packet-capturing*

refresh-interval-hours

Description Zone transfer refresh rate in hours (Default 4). 0 means no refresh

Type: number

Range: 0-24

Default: 4

server-ipv4

Description Master ipv4 address

Type: string

Format: ipv4-address

server-ipv6

Description Master ipv6 address

Type: string

Format: ipv6-address

server-v4-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

server-v6-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-cache-list_sharded-domain-group-list_sharded-domain-list-policy-list_packet-capturing

Specification	Value
Type	*object*

root-zone-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-cache-list_sharded-domain-group-list_sharded-domain-list-policy-list_packet-capturing_root-zone-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

capture-mode

Description 'regular': Capture packet anyway; 'capture-on-failure': Capture packet if last XFR was failed;

Type: string

Supported Values: regular, capture-on-failure

root-zone

Description Specify root zone to be captured

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

2.33.2 ddos action-list

Action List Configuration

action-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*action-list-list*
Collection URI	/axapi/v3/ddos/action-list
Element Name	action-list
Element URI	/axapi/v3/ddos/action-list/{name}
Element Attributes	action-list_attributes
Partition Visibility	shared
Schema	`action-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/action-list

action-list attributes

```
POST /axapi/v3/ddos/action-list/
Payload:
{
    "action-list": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/action-list

action-list attributes

Get Object

GET

/axapi/v3/ddos/action-list/{name}

action-list attributes

```
GET /axapi/v3/ddos/action-list/a
Reponse:
{
    "action-list": {
        "name": "a",
        "uuid": "13c26a34-0855-11f0-80ae-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/action-list/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/action-list

action-list-list

Modify Object

POST

/axapi/v3/ddos/action-list/{name}

action-list attributes

Replace Object

PUT

/axapi/v3/ddos/action-list/{name}

action-list attributes

```
PUT /axapi/v3/ddos/action-list/a
Payload:
{
    "action-list": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/action-list

action-list-list

Delete Object

DELETE

/axapi/v3/ddos/action-list/{name}

action-list attributes

```
DELETE /axapi/v3/ddos/action-list/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

action-list-list

action-list-list is **JSON List** of *action-list attributes*

action-list-list : [

{ *action-list attributes* },

{ *action-list attributes* },

...

]

action-list attributes

action

Description: action is a **JSON Block**. Please see below for *action*

Type: Object

capture-config

Description capture-config name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

name

Description DDOS action-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/zone-template/encap*

logging

Description DDOS logging zone-template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/zone-template/logging*

action

Specification	Value
Type	*object*

action

Description 'drop': Drop Packet (Default); 'ignore': Continue processing the packet; 'reset': Reset the connection; 'authenticate-src': Authenticate the source IP; 'blacklist-src': Black-list the source IP; 'tunnel-encap-packet': Encapsulate packet for tunneling. encap template need to be bound;

Type: string

Supported Values: drop, ignore, reset, authenticate-src, blacklist-src, tunnel-encap-packet

blacklist-src-value

Description blacklist duration in minutes

Type: number

Range: 1-30

scrub-packet

Description allow packets to go through other DDoS checks before sent out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

stateless

Description encapsulate all packests

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.3 ddos anomaly

anomaly counters

anomaly Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	anomaly
Element URI	/axapi/v3/ddos/anomaly
Element Attributes	anomaly_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/anomaly/stats
Schema	`anomaly schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/anomaly

anomaly attributes

Get Object

GET

/axapi/v3/ddos/anomaly

anomaly attributes

Modify Object

POST

/axapi/v3/ddos/anomaly

anomaly attributes

Replace Object

PUT

/axapi/v3/ddos/anomaly

anomaly attributes

Delete Object

DELETE

/axapi/v3/ddos/anomaly

anomaly attributes

anomaly attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.4 ddos anomaly-drop

Disable DDOS IP Anomaly scrubbing groups

anomaly-drop Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	anomaly-drop
Element URI	/axapi/v3/ddos/anomaly-drop
Element Attributes	anomaly-drop_attributes
Partition Visibility	shared
Schema	`anomaly-drop schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/anomaly-drop

anomaly-drop_attributes

anomaly-drop attributes

packet-deformity-layer-2

Description: packet-deformity-layer-2 is a **JSON Block**. Please see below for *packet-deformity-layer-2*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly-drop/packet-deformity-layer-2*

packet-deformity-layer-3

Description: packet-deformity-layer-3 is a **JSON Block**. Please see below for *packet-deformity-layer-3*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly-drop/packet-deformity-layer-3*

packet-deformity-layer-4

Description: packet-deformity-layer-4 is a **JSON Block**. Please see below for *packet-deformity-layer-4*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly-drop/packet-deformity-layer-4*

security-attack-layer-3

Description: security-attack-layer-3 is a **JSON Block**. Please see below for *security-attack-layer-3*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly-drop/security-attack-layer-3*

security-attack-layer-4-tcp

Description: security-attack-layer-4-tcp is a **JSON Block**. Please see below for *security-attack-layer-4-tcp*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly-drop/security-attack-layer-4-tcp*

security-attack-layer-4-udp

Description: security-attack-layer-4-udp is a **JSON Block**. Please see below for *security-attack-layer-4-udp*

Type: Object

Reference Object: */axapi/v3/ddos/anomaly-drop/security-attack-layer-4-udp*

security-attack-layer-4-udp

Specification	Value
Type	*object*

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

security-attack-layer-4-tcp

Specification	Value
Type	*object*

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

security-attack-layer-3

Specification	Value
Type	*object*

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-deformity-layer-3

Specification	Value
Type	*object*

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-deformity-layer-2

Specification	Value
Type	*object*

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-deformity-layer-4

Specification	Value
Type	*object*

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.5 ddos anomaly-drop packet-deformity-layer-2

Disable (Enable) Layer-2 Packet Deformities

packet-deformity-layer-2 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	packet-deformity-layer-2
Element URI	/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-2
Element Attributes	packet-deformity-layer-2_attributes
Partition Visibility	shared
Schema	`packet-deformity-layer-2 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-2

packet-deformity-layer-2 attributes

Get Object

GET

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-2

packet-deformity-layer-2 attributes

Modify Object

POST

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-2

packet-deformity-layer-2 attributes

Replace Object

PUT

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-2

packet-deformity-layer-2 attributes

Delete Object

DELETE

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-2

packet-deformity-layer-2 attributes

packet-deformity-layer-2 attributes

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.6 ddos anomaly-drop packet-deformity-layer-3

Disable (Enable) Layer-3 Packet Deformities

packet-deformity-layer-3 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	packet-deformity-layer-3
Element URI	/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-3
Element Attributes	packet-deformity-layer-3_attributes
Partition Visibility	shared
Schema	`packet-deformity-layer-3 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-3

packet-deformity-layer-3 attributes

```
POST /axapi/v3/ddos/anomaly-drop/packet-deformity-layer-3
Payload:
{
    "packet-deformity-layer-3": {
        "toggle": "enable"
    }
}
```

Get Object

GET

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-3

packet-deformity-layer-3 attributes

```
GET /axapi/v3/ddos/anomaly-drop/packet-deformity-layer-3
Reponse:
{
    "packet-deformity-layer-3": {
        "toggle": "enable",
        "log": 0,
        "uuid": "cb1ed72c-bb97-11ef-a72a-63c0c17412b6",
        "a10-url": "/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-3"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-3

packet-deformity-layer-3 attributes

Replace Object

PUT

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-3

packet-deformity-layer-3 attributes

```
PUT /axapi/v3/ddos/anomaly-drop/packet-deformity-layer-3
Payload:
{
    "packet-deformity-layer-3": {
        "log": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-3

packet-deformity-layer-3 attributes

```
DELETE /axapi/v3/ddos/anomaly-drop/packet-deformity-layer-3
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

packet-deformity-layer-3 attributes

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.7 ddos anomaly-drop packet-deformity-layer-4

Disable (Enable) Layer-4 Packet Deformities

packet-deformity-layer-4 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	packet-deformity-layer-4
Element URI	/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-4
Element Attributes	packet-deformity-layer-4_attributes
Partition Visibility	shared
Schema	`packet-deformity-layer-4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-4

packet-deformity-layer-4 attributes

```
POST /axapi/v3/ddos/anomaly-drop/packet-deformity-layer-4
Payload:
{
    "packet-deformity-layer-4": {
        "toggle": "enable"
    }
}
```

Get Object

GET

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-4

packet-deformity-layer-4 attributes

```
GET /axapi/v3/ddos/anomaly-drop/packet-deformity-layer-4
Reponse:
{
    "packet-deformity-layer-4": {
        "toggle": "enable",
        "log": 0,
        "uuid": "cb1ed858-bb97-11ef-a72a-63c0c17412b6",
        "a10-url": "/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-4"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-4

packet-deformity-layer-4 attributes

Replace Object

PUT

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-4

packet-deformity-layer-4 attributes

```
PUT /axapi/v3/ddos/anomaly-drop/packet-deformity-layer-4
Payload:
{
    "packet-deformity-layer-4": {
        "log": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/anomaly-drop/packet-deformity-layer-4

packet-deformity-layer-4 attributes

```
DELETE /axapi/v3/ddos/anomaly-drop/packet-deformity-layer-4
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

packet-deformity-layer-4 attributes

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.8 ddos anomaly-drop security-attack-layer-3

Disable (Enable) Security Attack Layer-3 scrubbing

security-attack-layer-3 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	security-attack-layer-3
Element URI	/axapi/v3/ddos/anomaly-drop/security-attack-layer-3
Element Attributes	security-attack-layer-3_attributes
Partition Visibility	shared
Schema	`security-attack-layer-3 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/anomaly-drop/security-attack-layer-3

security-attack-layer-3 attributes

```
POST /axapi/v3/ddos/anomaly-drop/security-attack-layer-3
Payload:
{
    "security-attack-layer-3": {
        "toggle": "enable"
    }
}
```

Get Object

GET

/axapi/v3/ddos/anomaly-drop/security-attack-layer-3

security-attack-layer-3 attributes

```
GET /axapi/v3/ddos/anomaly-drop/security-attack-layer-3
Reponse:
{
    "security-attack-layer-3": {
        "toggle": "enable",
        "log": 0,
        "uuid": "cb1ed47a-bb97-11ef-a72a-63c0c17412b6",
        "a10-url": "/axapi/v3/ddos/anomaly-drop/security-attack-layer-3"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/anomaly-drop/security-attack-layer-3

security-attack-layer-3 attributes

Replace Object

PUT

/axapi/v3/ddos/anomaly-drop/security-attack-layer-3

security-attack-layer-3 attributes

```
PUT /axapi/v3/ddos/anomaly-drop/security-attack-layer-3
Payload:
{
    "security-attack-layer-3": {
        "log": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/anomaly-drop/security-attack-layer-3

security-attack-layer-3 attributes

```
DELETE /axapi/v3/ddos/anomaly-drop/security-attack-layer-3
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

security-attack-layer-3 attributes

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.9 ddos anomaly-drop security-attack-layer-4-tcp

Disable (Enable) Security Attack Layer-4 TCP scrubbing

security-attack-layer-4-tcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	security-attack-layer-4-tcp
Element URI	/axapi/v3/ddos/anomaly-drop/security-attack-layer-4-tcp
Element Attributes	security-attack-layer-4-tcp_attributes
Partition Visibility	shared
Schema	`security-attack-layer-4-tcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/anomaly-drop/security-attack-layer-4-tcp

security-attack-layer-4-tcp attributes

```
POST /axapi/v3/ddos/anomaly-drop/security-attack-layer-4-tcp
Payload:
{
    "security-attack-layer-4-tcp": {
        "toggle": "enable"
    }
}
```

Get Object

GET

/axapi/v3/ddos/anomaly-drop/security-attack-layer-4-tcp

security-attack-layer-4-tcp attributes

```
GET /axapi/v3/ddos/anomaly-drop/security-attack-layer-4-tcp
Reponse:
{
    "security-attack-layer-4-tcp": {
        "toggle": "enable",
        "log": 0,
        "uuid": "cb1ed560-bb97-11ef-a72a-63c0c17412b6",
        "a10-url": "/axapi/v3/ddos/anomaly-drop/security-attack-layer-4-tcp"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/anomaly-drop/security-attack-layer-4-tcp

security-attack-layer-4-tcp attributes

Replace Object

PUT

/axapi/v3/ddos/anomaly-drop/security-attack-layer-4-tcp

security-attack-layer-4-tcp attributes

```
PUT /axapi/v3/ddos/anomaly-drop/security-attack-layer-4-tcp
Payload:
{
    "security-attack-layer-4-tcp": {
        "log": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/anomaly-drop/security-attack-layer-4-tcp

security-attack-layer-4-tcp attributes

```
DELETE /axapi/v3/ddos/anomaly-drop/security-attack-layer-4-tcp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

security-attack-layer-4-tcp attributes

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.10 ddos anomaly-drop security-attack-layer-4-udp

Disable (Enable) Security Attack Layer-4 UDP scrubbing

security-attack-layer-4-udp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	security-attack-layer-4-udp
Element URI	/axapi/v3/ddos/anomaly-drop/security-attack-layer-4-udp
Element Attributes	security-attack-layer-4-udp_attributes
Partition Visibility	shared
Schema	`security-attack-layer-4-udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/anomaly-drop/security-attack-layer-4-udp

security-attack-layer-4-udp attributes

Get Object

GET

/axapi/v3/ddos/anomaly-drop/security-attack-layer-4-udp

security-attack-layer-4-udp attributes

Modify Object

POST

/axapi/v3/ddos/anomaly-drop/security-attack-layer-4-udp

security-attack-layer-4-udp attributes

Replace Object

PUT

/axapi/v3/ddos/anomaly-drop/security-attack-layer-4-udp

security-attack-layer-4-udp attributes

Delete Object

DELETE

/axapi/v3/ddos/anomaly-drop/security-attack-layer-4-udp

security-attack-layer-4-udp attributes

security-attack-layer-4-udp attributes

capture-config

Description capture-config name (Can only configure when drop-disabled)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

log

Description Log the anomaly event (Can only configure when drop-disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.11 ddos anomaly stats

Statistics for the object anomaly

anomaly Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	anomaly
Element URI	/axapi/v3/ddos/anomaly/stats
Element Attributes	anomaly_attributes
Partition Visibility	None
Schema	`anomaly schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/anomaly/stats

anomaly attributes

Get Object

GET

/axapi/v3/ddos/anomaly/stats

anomaly attributes

Modify Object

POST

/axapi/v3/ddos/anomaly/stats

anomaly attributes

Replace Object

PUT

/axapi/v3/ddos/anomaly/stats

anomaly attributes

Delete Object

DELETE

/axapi/v3/ddos/anomaly/stats

anomaly attributes

anomaly attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

bad_ip_csum

Description IPv4 Invalid Checksum

Type: number

Format: counter

bad_ip_flags

Description IPv4 Invalid Flags

Type: number

Format: counter

bad_ip_frag_off

Description IPv4 Invalid Fragment Offset

Type: number

Format: counter

bad_ip_hdr_len

Description IPv4 Invalid Header Length

Type: number

Format: counter

bad_ip_pl_len

Description IP Invalid Payload Length

Type: number

Format: counter

bad_ip_ttl

Description IP Invalid TTL

Type: number

Format: counter

empty_frag

Description IPv4 Empty Fragment

Type: number

Format: counter

icmp_pod

Description ICMP Ping Of Death

Type: number

Format: counter

ip_frag

Description IP Fragment

Type: number

Format: counter

ipv4_opt

Description IPv4 Option

Type: number

Format: counter

land_attack

Description IP Land Attack

Type: number

Format: counter

micro_frag

Description IPv4 Micro Fragment

Type: number

Format: counter

no_ip_payload

Description IP Payload None

Type: number

Format: counter

oversize_ip_pl

Description IP Payload Too Large

Type: number

Format: counter

runt_ip_hdr

Description IP Runt Header

Type: number

Format: counter

runt_tcpudp_hdr

Description TCPUDP Runt Header

Type: number

Format: counter

tcp_bad_csum

Description TCP Invalid Checksum

Type: number

Format: counter

tcp_bad_ip_len

Description TCP Invalid IPv4 Length

Type: number

Format: counter

tcp_bad_urg_off

Description TCP Invalid Urgent Offset

Type: number

Format: counter

tcp_frag_header

Description TCP Fragment Header

Type: number

Format: counter

tcp_null_flags

Description TCP Null Flags

Type: number

Format: counter

tcp_null_scan

Description TCP Null Scan

Type: number

Format: counter

tcp_opt_overflow

Description TCP Option Error

Type: number

Format: counter

tcp_short_hdr

Description TCP Short Header

Type: number

Format: counter

tcp_syn_fin

Description TCP SYN&FIN

Type: number

Format: counter

tcp_syn_frag

Description TCP SYN Fragment

Type: number

Format: counter

tcp_xmas_flags

Description TCP XMAS Flags

Type: number

Format: counter

tcp_xmas_scan

Description TCP XMAS Scan

Type: number

Format: counter

tun_mismatch

Description IP Tunnel Mismatch

Type: number

Format: counter

udp_bad_csum

Description UDP Invalid Checksum

Type: number

Format: counter

udp_kb_frag

Description UDP KB Fragment

Type: number

Format: counter

udp_port_lb

Description UDP Port LB

Type: number

Format: counter

udp_short_hdr

Description UDP Short Header

Type: number

Format: counter

udp_short_leng

Description UDP Invalid Length

Type: number

Format: counter

undersize_icmp

Description ICMP Undersize

Type: number

Format: counter

undersize_ip_pl

Description IP Payload Too Small

Type: number

Format: counter

2.33.12 ddos brief

ddos brief counters

brief Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	brief
Element URI	/axapi/v3/ddos/brief
Element Attributes	brief_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/brief/stats
Schema	`brief schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/brief

brief attributes

Get Object

GET

/axapi/v3/ddos/brief

brief attributes

Modify Object

POST

/axapi/v3/ddos/brief

brief attributes

Replace Object

PUT

/axapi/v3/ddos/brief

brief attributes

Delete Object

DELETE

/axapi/v3/ddos/brief

brief attributes

brief attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.13 ddos brief stats

Statistics for the object brief

brief Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	brief
Element URI	/axapi/v3/ddos/brief/stats
Element Attributes	brief_attributes
Partition Visibility	None
Schema	`brief schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/brief/stats

brief attributes

Get Object

GET

/axapi/v3/ddos/brief/stats

brief attributes

Modify Object

POST

/axapi/v3/ddos/brief/stats

brief attributes

Replace Object

PUT

/axapi/v3/ddos/brief/stats

brief attributes

Delete Object

DELETE

/axapi/v3/ddos/brief/stats

brief attributes

brief attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dst_blackhole_inject

Description Dst Blackhole Injected

Type: number

Format: counter

dst_blackhole_withdraw

Description Dst Blackhole Withdrawn

Type: number

Format: counter

dst_egress_bytes

Description Outbound Bytes Received

Type: number

Format: counter

dst_egress_packets

Description Outbound Packets Received

Type: number

Format: counter

dst_hw_drop

Description Dst Default Hardware Packets Dropped

Type: number

Format: counter

dst_hw_drop_rule_inserted

Description Dst Default Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_rule_removed

Description Dst Default Hardware Drop Rules Removed

Type: number

Format: counter

dst_ingress_bytes

Description Inbound Bytes Received

Type: number

Format: counter

dst_ingress_packets

Description Inbound Packets Received

Type: number

Format: counter

dst_ip_bypass

Description Dst IP Bypass

Type: number

Format: counter

dst_ipproto_bl

Description Dst IP-Proto Blacklist Packets Dropped

Type: number

Format: counter

dst_ipproto_drop

Description Dst IP-Proto Total Packets Dropped

Type: number

Format: counter

dst_ipproto_exceed_drop_any

Description Dst IP-Proto Exceed Dropped

Type: number

Format: counter

dst_ipproto_rcvd

Description Dst IP-Proto Total Packets Received

Type: number

Format: counter

dst_port_bl

Description Dst Port Blacklist Packets Dropped

Type: number

Format: counter

dst_port_exceed_drop_any

Description Dst Port Exceed Dropped

Type: number

Format: counter

dst_port_undef_drop

Description Dst Port Undefined Dropped

Type: number

Format: counter

dst_sport_bl

Description Dst SrcPort Blacklist Packets Dropped

Type: number

Format: counter

dst_sport_exceed_drop_any

Description Dst SrcPort Exceed Dropped

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

glid_action_encap_send_delay

Description Glid Action Tunnel-encap with Scrub

Type: number

Format: counter

glid_action_encap_send_immed

Description Glid Action Tunnel-encap

Type: number

Format: counter

icmp_any_exceed

Description ICMP Exceeded

Type: number

Format: counter

icmp_drop_bl

Description ICMP Blacklisted Packets Dropped

Type: number

Format: counter

icmp_dst_drop

Description ICMP Dst Packets Dropped

Type: number

Format: counter

icmp_src_drop

Description ICMP Src Packets Dropped

Type: number

Format: counter

icmp_src_dst_drop

Description ICMP SrcDst Packets Dropped

Type: number

Format: counter

icmp_total_bytes_drop

Description ICMP Total Bytes Dropped

Type: number

Format: counter

icmp_total_bytes_rcv

Description ICMP Total Bytes Received

Type: number

Format: counter

icmp_total_drop

Description ICMP Total Packets Dropped

Type: number

Format: counter

inicmp

Description ICMP Total Packets Received

Type: number

Format: counter

inother

Description OTHER Total Packets Received

Type: number

Format: counter

instateless

Description Stateless Packets Received

Type: number

Format: counter

intcp

Description TCP Total Packets Received

Type: number

Format: counter

inudp

Description UDP Total Packets Received

Type: number

Format: counter

ip_rcv

Description IPv4 Received

Type: number

Format: counter

ip_sent

Description IPv4 Sent

Type: number

Format: counter

ipv6_rcv

Description IPv6 Received

Type: number

Format: counter

ipv6_sent

Description IPv6 Sent

Type: number

Format: counter

not_for_ddos

Description Not For DDOS

Type: number

Format: counter

other_any_exceed

Description OTHER Exceeded

Type: number

Format: counter

other_drop_bl

Description OTHER Blacklisted Packets Dropped

Type: number

Format: counter

other_dst_drop

Description OTHER Dst Packets Dropped

Type: number

Format: counter

other_src_drop

Description OTHER Src Packets Dropped

Type: number

Format: counter

other_src_dst_drop

Description OTHER SrcDst Packets Dropped

Type: number

Format: counter

other_total_bytes_drop

Description OTHER Total Bytes Dropped

Type: number

Format: counter

other_total_bytes_rcv

Description OTHER Total Bytes Received

Type: number

Format: counter

other_total_drop

Description OTHER Total Packets Dropped

Type: number

Format: counter

out_no_route

Description IPv4/v6 Out No Route

Type: number

Format: counter

sess_aged_out

Description Session Aged Out

Type: number

Format: counter

src_hw_drop_rule_inserted

Description Src Default Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_rule_removed

Description Src Default Hardware Drop Rules Removed

Type: number

Format: counter

src_ip_bypass

Description Src IP Bypass

Type: number

Format: counter

tcp_any_exceed

Description TCP Exceeded

Type: number

Format: counter

tcp_drop_bl

Description TCP Blacklist Packets Dropped

Type: number

Format: counter

tcp_dst_drop

Description TCP Dst Packets Dropped

Type: number

Format: counter

tcp_sess_create

Description TCP Sessions Created

Type: number

Format: counter

tcp_src_drop

Description TCP Src Packets Dropped

Type: number

Format: counter

tcp_src_dst_drop

Description TCP SrcDst Packets Dropped

Type: number

Format: counter

tcp_total_bytes_drop

Description TCP Total Bytes Dropped

Type: number

Format: counter

tcp_total_bytes_rcv

Description TCP Total Bytes Received

Type: number

Format: counter

tcp_total_drop

Description TCP Total Packets Dropped

Type: number

Format: counter

udp_any_exceed

Description UDP Exceeded

Type: number

Format: counter

udp_drop_bl

Description UDP Blacklist Packets Dropped

Type: number

Format: counter

udp_dst_drop

Description UDP Dst Packets Dropped

Type: number

Format: counter

udp_sess_create

Description UDP Sessions Created

Type: number

Format: counter

udp_src_drop

Description UDP Src Packets Dropped

Type: number

Format: counter

udp_src_dst_drop

Description UDP SrcDst Packets Dropped

Type: number

Format: counter

udp_total_bytes_drop

Description UDP Total Bytes Dropped

Type: number

Format: counter

udp_total_bytes_rcv

Description UDP Total Bytes Received

Type: number

Format: counter

udp_total_drop

Description UDP Total Packets Dropped

Type: number

Format: counter

v4_sess_create

Description IPv4 Session Created

Type: number

Format: counter

v6_sess_create

Description IPv6 Session Created

Type: number

Format: counter

2.33.14 ddos detection

DDoS Detection Commands

detection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	detection
Element URI	/axapi/v3/ddos/detection
Element Attributes	detection_attributes
Partition Visibility	shared
Schema	`detection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection

detection attributes

```
POST /axapi/v3/ddos/detection
Payload:
{
    "detection": {
        "disable": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/detection

detection attributes

```
GET /axapi/v3/ddos/detection
Reponse:
{
    "detection": {
        "disable": 1,
        "uuid": "cb1e88bc-bb97-11ef-a72a-63c0c17412b6",
        "statistics": {
            "uuid": "cb1e8b50-bb97-11ef-a72a-63c0c17412b6",
            "a10-url": "/axapi/v3/ddos/detection/statistics"
        },
        "a10-url": "/axapi/v3/ddos/detection"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/detection

detection attributes

Replace Object

PUT

/axapi/v3/ddos/detection

detection attributes

```
PUT /axapi/v3/ddos/detection
Payload:
{
    "detection": {
        "disable": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/detection

detection attributes

```
DELETE /axapi/v3/ddos/detection
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

detection attributes

agent-group-list

Type: List

Reference Object: */axapi/v3/ddos/detection/agent-group/{agent-group-name}*

agent-list

Type: List

Reference Object: */axapi/v3/ddos/detection/agent/{agent-name}*

ddos-script

Description: ddos-script is a **JSON Block**. Please see below for *ddos-script*

Type: Object

Reference Object: */axapi/v3/ddos/detection/ddos-script*

disable

Description Disable DDoS detection (default: enabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-saving

Description: entry-saving is a **JSON Block**. Please see below for *entry-saving*

Type: Object

Reference Object: */axapi/v3/ddos/detection/entry-saving*

resource-usage

Description: resource-usage is a **JSON Block**. Please see below for *resource-usage*

Type: Object

Reference Object: */axapi/v3/ddos/detection/resource-usage*

settings

Description: settings is a **JSON Block**. Please see below for *settings*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings*

statistics

Description: statistics is a **JSON Block**. Please see below for *statistics*

Type: Object

Reference Object: */axapi/v3/ddos/detection/statistics*

trustlist

Description: trustlist is a **JSON Block**. Please see below for *trustlist*

Type: Object

Reference Object: */axapi/v3/ddos/detection/trustlist*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

resource-usage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

trustlist

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-class-list

Description IPv4 Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

v6-class-list

Description IPv6 Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

entry-saving

Specification	Value
Type	*object*

clear-saved-data

Description Clear all saved network-object-based detection entries and learned indicators

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-restore

Description Manually restore network-object-based detection entries and learned indicators

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-save

Description Manually save network-object-based detection entries and learned indicators

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

settings

Specification	Value
Type	*object*

ctrl-cpu-usage

Description Control cpu usage threshold for DDoS detection

Type: number

Range: 1-100

de-escalation-quiet-time

Description Configure de-escalation needed time in minutes from level 1 to 0.(default 1 minutes)

Type: number

Range: 1-60

dedicated-cpus

Description Configure the number of dedicated cores for detection

Type: number

Range: 1-32

detection-window-size

Description Configure detection window size in seconds (DDoS detection window size in seconds(default: 1))

Type: number

Range: 1-60

Default: 1

detector-mode

Description 'standalone': Standalone detector; 'on-box': Mitigator and Detector on the same box; 'auto-svc-discovery': Auto Service discovery using Visibility module (Deprecatd);

Type: string

Supported Values: standalone, on-box, auto-svc-discovery

entry-saving

Description: entry-saving is a **JSON Block**. Please see below for *settings_entry-saving*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/entry-saving*

export-interval

Description Configure Baselining and export interval in seconds (DDoS Baselining and export interval in seconds(default: 20))

Type: number

Range: 20-3000

Default: 20

full-core-enable

Description Enable full core

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

histogram-de-escalate-percentage

Description histogram de-escalate sensitivity for DDoS detection

Type: number

Range: 1-100

histogram-escalate-percentage

Description histogram escalate sensitivity for DDoS detection

Type: number

Range: 1-100

initial-learning-interval

Description Initial learning interval (in hours) before processing

Type: number

Range: 1-168

network-object-flooding-multiple

Description multiplier for flooding detection threshold in network objects (default 2x threshold)

Type: number

Range: 2-10

Default: 2

network-object-subnet-notify-percent

Description Send subnet notification when anomaly children subnet entries over configured percentage.(default 50%)

Type: number

Range: 1-100

network-object-window-size

Description '5': 5 seconds; '10': 10 seconds; '15': 15 seconds; '30': 30 seconds; (DDoS detection window size in seconds(default: 30))

Type: string

Supported Values: 5, 10, 15, 30

Default: 30

notification-debug-log

Description 'enable': Enable detection notification debug log (default: disabled);

Type: string

Supported Values: enable

pkt-sampling

Type: List

standalone-settings

Description: standalone-settings is a **JSON Block**. Please see below for *settings_standalone-settings*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/standalone-settings*

top-k-reset-interval

Description Configure top-k reset interval

Type: number

Range: 1-60

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-notifications

Description: zone-notifications is a **JSON Block**. Please see below for *settings_zone-notifications*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/zone-notifications*

settings_entry-saving

Specification	Value
Type	*object*

disable-bootup-restore

Description Disable auto-restoring when system boots up

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

interval

Description Configure periodical auto-saving interval in minutes

Type: number

Range: 1-1440

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

settings_standalone-settings

Specification	Value
Type	*object*

action

Description 'enable': Enable standalone detector; 'disable': Disable standalone detector (default);

Type: string

Supported Values: enable, disable

Default: disable

netflow

Description: netflow is a **JSON Block**. Please see below for *settings_standalone-settings_netflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/standalone-settings/netflow*

sflow

Description: sflow is a **JSON Block**. Please see below for *settings_standalone-settings_sflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/standalone-settings/sflow*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

settings_standalone-settings_netflow

Specification	Value
Type	*object*

distribute-by-duration

Description 'enable': Enable data distribution by flow duration(default); 'disable': Disable data distribution by flow duration;

Type: string

Supported Values: enable, disable

Default: enable

listening-port

Description Netflow port to receive packets (Netflow port number(default 9996))

Type: number

Range: 1-65535

Default: 9996

template-active-timeout

Description Configure active timeout of the netflow templates received in mins (Template active timeout(mins)(default 30mins))

Type: number

Range: 2-300

Default: 30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

settings_standalone-settings_sflow

Specification	Value
Type	*object*

listening-port

Description sFlow port to receive packets (sFlow port number(default 6343))

Type: number

Range: 1-65535

Default: 6343

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

settings_pkt-sampling

Specification	Value
Type	*list*
Block object keys	

override-rate

Description Sample 1 in X packets (default: X=1)

Type: number

Range: 1-50000000

start-level

Description Configure the start level for dynamic sampling adjustment (Sample 1 in N packets, the larger level the larger value of N (default: 1))

Type: number

Range: 1-10

Default: 1

settings_zone-notifications

Specification	Value
Type	*object*

source-entry

Description 'enable': Enable source entry detection notification; 'disable': Disable source entry detection notification(default);

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

agent-group-list

Specification	Value
Type	*list*
Block object keys	

agent

Type: List

agent-group-name

Description Specify name for the agent-group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

agent-group-list_agent

Specification	Value
Type	*list*
Block object keys	

agent-name

Description detection agent name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/detection/agent*

statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ddos-script

Specification	Value
Type	*object*

action

Description 'delete': delete;

Type: string

Supported Values: delete

file

Description startup-config local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

agent-list

Specification	Value
Type	*list*
Block object keys	

agent-name

Description Specify name for the agent

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

agent-type

Description 'Cisco': Cisco; 'Juniper': Juniper;

Type: string

Supported Values: Cisco, Juniper

agent-v4-addr

Description Configure agent's IPv4 address

Type: string

Format: ipv4-address

agent-v6-addr

Description Configure agent's IPv6 address

Type: string

Format: ipv6-address

netflow

Description: netflow is a **JSON Block**. Please see below for *agent-list_netflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/agent/{agent-name}/netflow*

sampling-enable

Type: List

sflow

Description: sflow is a **JSON Block**. Please see below for *agent-list_sflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/agent/{agent-name}/sflow*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

agent-list_sflow

Specification	Value
Type	*object*

sflow-pkt-samples-collection

Description 'enable': Enable sflow packet samples collection(default); 'disable': Disable sflow packet samples collection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

agent-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'sflow-packets-received': sFlow Packets Received; 'sflow-samples-received': sFlow Samples Received; 'sflow-samples-bad-len': sFlow Samples Bad Length; 'sflow-samples-non-std': sFlow Samples Non-standard; 'sflow-samples-skipped': sFlow Samples Skipped; 'sflow-sample-record-bad-len': sFlow Sample Records Bad Length; 'sflow-samples-sent-for-detection': sFlow Samples Processed For Detection; 'sflow-sample-record-invalid-layer2': sFlow Sample Records Unknown Layer-2; 'sflow-sample-ipv6-hdr-parse-fail': sFlow Sample IPv6 Record Header Parse Failures; 'sflow-disabled': sFlow Packet Samples Processing Disabled; 'netflow-disabled': Netflow Flow Samples Processing Disabled; 'netflow-v5-packets-received': Netflow v5 Packets Received; 'netflow-v5-samples-received': Netflow v5 Samples Received; 'netflow-v5-samples-sent-for-detection': Netflow v5 Samples Processed For Detection; 'netflow-v5-sample-records-bad-len': Netflow v5 Sample Records Bad Length; 'netflow-v5-max-records-exceed': Netflow v5 Sample Max Records Error; 'netflow-v9-packets-received': Netflow v9 Packets Received; 'netflow-v9-samples-received': Netflow v9 Samples Received; 'netflow-v9-samples-sent-for-detection': Netflow v9 Samples Processed

For Detection; 'netflow-v9-sample-records-bad-len': Netflow v9 Sample Records Bad Length; 'netflow-v9-sample-flowset-bad-padding': Netflow v9 Sample Flowset Bad Padding; 'netflow-v9-max-records-exceed': Netflow v9 Sample Max Records Error; 'netflow-v9-template-not-found': Netflow v9 Template Not Found; 'netflow-v10-packets-received': Netflow v10 Packets Received; 'netflow-v10-samples-received': Netflow v10 Samples Received; 'netflow-v10-samples-sent-for-detection': Netflow v10 Samples Procssed For Detection; 'netflow-v10-sample-records-bad-len': Netflow v10 Sample Records Bad Length; 'netflow-v10-max-records-exceed': Netflow v10 Sample Max records Error; 'netflow-tcp-sample-received': Netflow TCP Samples Received; 'netflow-udp-sample-received': Netflow UDP Samples received; 'netflow-icmp-sample-received': Netflow ICMP Samples Received; 'netflow-other-sample-received': Netflow OTHER Samples Received; 'netflow-record-copy-oom-error': Netflow Data Record Copy Fail, Local MEM size error; 'netflow-record-rse-invalid': Netflow Data Record Reduced Size Invalid; 'netflow-sample-flow-dur-error': Netflow Sample Flow Duration Error; 'flow-dst-entry-miss': DDoS Destination Entry Lookup Failures; 'flow-ip-proto-or-port-miss': DDoS Destination Service Lookup Failures; 'flow-detection-msgq-full': Detection Message Enqueue Failures;

Type: string

Supported Values: all, sflow-packets-received, sflow-samples-received, sflow-samples-bad-len, sflow-samples-non-std, sflow-samples-skipped, sflow-sample-record-bad-len, sflow-samples-sent-for-detection, sflow-sample-record-invalid-layer2, sflow-sample-ipv6-hdr-parse-fail, sflow-disabled, netflow-disabled, netflow-v5-packets-received, netflow-v5-samples-received, netflow-v5-samples-sent-for-detection, netflow-v5-sample-records-bad-len, netflow-v5-max-records-exceed, netflow-v9-packets-received, netflow-v9-samples-received, netflow-v9-samples-sent-for-detection, netflow-v9-sample-records-bad-len, netflow-v9-sample-flowset-bad-padding, netflow-v9-max-records-exceed, netflow-v9-template-not-found, netflow-v10-packets-received, netflow-v10-samples-received, netflow-v10-samples-sent-for-detection, netflow-v10-sample-records-bad-len, netflow-v10-max-records-exceed, netflow-tcp-sample-received, netflow-udp-sample-received, netflow-icmp-sample-received, netflow-other-sample-received, netflow-record-copy-oom-error, netflow-record-rse-invalid, netflow-sample-flow-dur-error, flow-dst-entry-miss, flow-ip-proto-or-port-miss, flow-detection-msgq-full, flow-network-entry-miss

agent-list_netflow

Specification	Value
Type	*object*

active-timeout

Description Configure agent's flow active timeout (seconds)

Type: number

Range: 10-600

inactive-timeout

Description Configure agent's flow inactive timeout (seconds)

Type: number

Range: 10-600

netflow-samples-collection

Description 'enable': Enable Netflow flow samples collection(default); 'disable': Disable Netflow flow samples collection;

Type: string

Supported Values: enable, disable

Default: enable

netflow-sampling-rate

Description Configure agent's netflow sampling rate

Type: number

Range: 1-65535

Default: 1

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.15 ddos detection agent

Configure DDoS detection agent

agent Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*agent-name*
Collection Name	*agent-list*
Collection URI	/axapi/v3/ddos/detection/agent
Element Name	agent
Element URI	/axapi/v3/ddos/detection/agent/{agent-name}
Element Attributes	agent_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/detection/agent/{agent-name}/stats
Operational Data URI	/axapi/v3/ddos/detection/agent/{agent-name}/oper
Schema	`agent schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/agent

agent attributes

```
POST /axapi/v3/ddos/detection/agent/
Payload:
{
    "agent": {
        "agent-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/detection/agent

agent attributes

Get Object

GET

/axapi/v3/ddos/detection/agent/{agent-name}

agent attributes

```
GET /axapi/v3/ddos/detection/agent/a
Reponse:
{
    "agent": {
        "agent-name": "a",
        "uuid": "712b221e-0856-11f0-bd9b-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/detection/agent/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/detection/agent

agent-list

Modify Object

POST

/axapi/v3/ddos/detection/agent/{agent-name}

agent attributes

Replace Object

PUT

/axapi/v3/ddos/detection/agent/{agent-name}

agent attributes

```
PUT /axapi/v3/ddos/detection/agent/a
Payload:
{
    "agent": {
        "agent-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/detection/agent

agent-list

Delete Object

DELETE

/axapi/v3/ddos/detection/agent/{agent-name}

agent attributes

```
DELETE /axapi/v3/ddos/detection/agent/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

agent-list

agent-list is **JSON List** of *agent attributes*

agent-list : [

{ *agent attributes* },

{ *agent attributes* },

...

]

agent attributes

agent-name

Description Specify name for the agent

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

agent-type

Description 'Cisco': Cisco; 'Juniper': Juniper;

Type: string

Supported Values: Cisco, Juniper

agent-v4-addr

Description Configure agent's IPv4 address

Type: string

Format: ipv4-address

agent-v6-addr

Description Configure agent's IPv6 address

Type: string

Format: ipv6-address

netflow

Description: netflow is a **JSON Block**. Please see below for *netflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/agent/{agent-name}/netflow*

sampling-enable

Type: List

sflow

Description: sflow is a **JSON Block**. Please see below for *sflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/agent/{agent-name}/sflow*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sflow

Specification	Value
Type	*object*

sflow-pkt-samples-collection

Description 'enable': Enable sflow packet samples collection(default); 'disable': Disable sflow packet samples collection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'sflow-packets-received': sFlow Packets Received; 'sflow-samples-received': sFlow Samples Received; 'sflow-samples-bad-len': sFlow Samples Bad Length; 'sflow-samples-non-std': sFlow Samples Non-standard; 'sflow-samples-skipped': sFlow Samples Skipped; 'sflow-sample-record-bad-len': sFlow Sample Records Bad Length; 'sflow-samples-sent-for-detection': sFlow Samples Processed For Detection; 'sflow-sample-record-invalid-layer2': sFlow Sample Records Unknown Layer-2; 'sflow-sample-ipv6-hdr-parse-fail': sFlow Sample IPv6 Record Header Parse Failures; 'sflow-disabled': sFlow Packet Samples Processing Disabled; 'netflow-disabled': Netflow Flow Samples Processing Disabled; 'netflow-v5-packets-received': Netflow v5 Packets Received; 'netflow-v5-samples-received': Netflow v5 Samples Received; 'netflow-v5-samples-sent-for-detection': Netflow v5 Samples Processed For Detection; 'netflow-v5-sample-records-bad-len': Netflow v5 Sample Records Bad Length; 'netflow-v5-max-records-exceed': Netflow v5 Sample Max Records Error; 'netflow-v9-packets-received': Netflow v9 Packets Received; 'netflow-v9-samples-received': Netflow v9 Samples Received; 'netflow-v9-samples-sent-for-detection': Netflow v9 Samples Processed

For Detection; 'netflow-v9-sample-records-bad-len': Netflow v9 Sample Records Bad Length; 'netflow-v9-sample-flowset-bad-padding': Netflow v9 Sample Flowset Bad Padding; 'netflow-v9-max-records-exceed': Netflow v9 Sample Max Records Error; 'netflow-v9-template-not-found': Netflow v9 Template Not Found; 'netflow-v10-packets-received': Netflow v10 Packets Received; 'netflow-v10-samples-received': Netflow v10 Samples Received; 'netflow-v10-samples-sent-for-detection': Netflow v10 Samples Procssed For Detection; 'netflow-v10-sample-records-bad-len': Netflow v10 Sample Records Bad Length; 'netflow-v10-max-records-exceed': Netflow v10 Sample Max records Error; 'netflow-tcp-sample-received': Netflow TCP Samples Received; 'netflow-udp-sample-received': Netflow UDP Samples received; 'netflow-icmp-sample-received': Netflow ICMP Samples Received; 'netflow-other-sample-received': Netflow OTHER Samples Received; 'netflow-record-copy-oom-error': Netflow Data Record Copy Fail, Local MEM size error; 'netflow-record-rse-invalid': Netflow Data Record Reduced Size Invalid; 'netflow-sample-flow-dur-error': Netflow Sample Flow Duration Error; 'flow-dst-entry-miss': DDoS Destination Entry Lookup Failures; 'flow-ip-proto-or-port-miss': DDoS Destination Service Lookup Failures; 'flow-detection-msgq-full': Detection Message Enqueue Failures;

Type: string

Supported Values: all, sflow-packets-received, sflow-samples-received, sflow-samples-bad-len, sflow-samples-non-std, sflow-samples-skipped, sflow-sample-record-bad-len, sflow-samples-sent-for-detection, sflow-sample-record-invalid-layer2, sflow-sample-ipv6-hdr-parse-fail, sflow-disabled, netflow-disabled, netflow-v5-packets-received, netflow-v5-samples-received, netflow-v5-samples-sent-for-detection, netflow-v5-sample-records-bad-len, netflow-v5-max-records-exceed, netflow-v9-packets-received, netflow-v9-samples-received, netflow-v9-samples-sent-for-detection, netflow-v9-sample-records-bad-len, netflow-v9-sample-flowset-bad-padding, netflow-v9-max-records-exceed, netflow-v9-template-not-found, netflow-v10-packets-received, netflow-v10-samples-received, netflow-v10-samples-sent-for-detection, netflow-v10-sample-records-bad-len, netflow-v10-max-records-exceed, netflow-tcp-sample-received, netflow-udp-sample-received, netflow-icmp-sample-received, netflow-other-sample-received, netflow-record-copy-oom-error, netflow-record-rse-invalid, netflow-sample-flow-dur-error, flow-dst-entry-miss, flow-ip-proto-or-port-miss, flow-detection-msgq-full, flow-network-entry-miss

netflow

Specification	Value
Type	*object*

active-timeout

Description Configure agent's flow active timeout (seconds)

Type: number

Range: 10-600

inactive-timeout

Description Configure agent's flow inactive timeout (seconds)

Type: number

Range: 10-600

netflow-samples-collection

Description 'enable': Enable Netflow flow samples collection(default); 'disable': Disable Netflow flow samples collection;

Type: string

Supported Values: enable, disable

Default: enable

netflow-sampling-rate

Description Configure agent's netflow sampling rate

Type: number

Range: 1-65535

Default: 1

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.16 ddos detection agent-group

Configure DDoS detection agent group

agent-group Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*agent-group-name*
Collection Name	*agent-group-list*
Collection URI	/axapi/v3/ddos/detection/agent-group
Element Name	agent-group
Element URI	/axapi/v3/ddos/detection/agent-group/{agent-group-name}
Element Attributes	agent-group_attributes
Partition Visibility	shared
Schema	`agent-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/agent-group

agent-group attributes

```
POST /axapi/v3/ddos/detection/agent-group/
Payload:
{
    "agent-group": {
        "agent-group-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/detection/agent-group

agent-group attributes

Get Object

GET

/axapi/v3/ddos/detection/agent-group/{agent-group-name}

agent-group attributes

```
GET /axapi/v3/ddos/detection/agent-group/a
Reponse:
{
    "agent-group": {
        "agent-group-name": "a",
        "uuid": "8d3ae606-0856-11f0-bd9b-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/detection/agent-group/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/detection/agent-group

agent-group-list

Modify Object

POST

/axapi/v3/ddos/detection/agent-group/{agent-group-name}

agent-group attributes

Replace Object

PUT

/axapi/v3/ddos/detection/agent-group/{agent-group-name}

agent-group attributes

```
PUT /axapi/v3/ddos/detection/agent-group/a
Payload:
{
    "agent-group": {
        "agent-group-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/detection/agent-group

agent-group-list

Delete Object

DELETE

/axapi/v3/ddos/detection/agent-group/{agent-group-name}

agent-group attributes

```
DELETE /axapi/v3/ddos/detection/agent-group/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

agent-group-list

agent-group-list is **JSON List** of *agent-group attributes*

agent-group-list : [

{ *agent-group attributes* },

{ *agent-group attributes* },

...

]

agent-group attributes

agent

Type: List

agent-group-name

Description Specify name for the agent-group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

agent

Specification	Value
Type	*list*
Block object keys	

agent-name

Description detection agent name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/detection/agent*

2.33.17 ddos detection agent netflow

Configure DDoS detection agent Netflow settings

netflow Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	netflow
Element URI	/axapi/v3/ddos/detection/agent/{agent-name}/netflow
Element Attributes	netflow_attributes
Partition Visibility	shared
Schema	`netflow schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/agent/{agent-name}/netflow

netflow attributes

```
POST /axapi/v3/ddos/detection/agent/a/netflow
Payload:
{
    "netflow": {
        "netflow-samples-collection": "enable"
    }
}
```

Get Object

GET

/axapi/v3/ddos/detection/agent/{agent-name}/netflow

netflow attributes

```
GET /axapi/v3/ddos/detection/agent/a/netflow
Reponse:
{
    "netflow": {
        "netflow-samples-collection": "enable",
        "netflow-sampling-rate": 1,
        "uuid": "458a9396-0857-11f0-8b7d-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/detection/agent/a/netflow"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/detection/agent/{agent-name}/netflow

netflow attributes

Replace Object

PUT

/axapi/v3/ddos/detection/agent/{agent-name}/netflow

netflow attributes

```
PUT /axapi/v3/ddos/detection/agent/a/netflow
Payload:
{
    "netflow": {
        "netflow-samples-collection": "disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/detection/agent/{agent-name}/netflow

netflow attributes

```
DELETE /axapi/v3/ddos/detection/agent/a/netflow
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

netflow attributes

active-timeout

Description Configure agent's flow active timeout (seconds)

Type: number

Range: 10-600

inactive-timeout

Description Configure agent's flow inactive timeout (seconds)

Type: number

Range: 10-600

netflow-samples-collection

Description 'enable': Enable Netflow flow samples collection(default); 'disable': Disable Netflow flow samples collection;

Type: string

Supported Values: enable, disable

Default: enable

netflow-sampling-rate

Description Configure agent's netflow sampling rate

Type: number

Range: 1-65535

Default: 1

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.18 ddos detection agent oper

Operational Status for the object agent

agent Specification

Parameter	Value
Type	*Collection*
Collection Name	*agent-list*
Collection URI	/axapi/v3/ddos/detection/agent/{agent-name}
Element Name	agent
Element URI	/axapi/v3/ddos/detection/agent/{agent-name}/oper
Element Attributes	agent_attributes
Partition Visibility	None
Schema	`agent schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/agent/{agent-name}

agent attributes

Create List

POST

/axapi/v3/ddos/detection/agent/{agent-name}

agent attributes

Get Object

GET

/axapi/v3/ddos/detection/agent/{agent-name}/oper

agent attributes

Get List

GET

/axapi/v3/ddos/detection/agent/{agent-name}

agent-list

Modify Object

POST

/axapi/v3/ddos/detection/agent/{agent-name}/oper

agent attributes

Replace Object

PUT

/axapi/v3/ddos/detection/agent/{agent-name}/oper

agent attributes

Replace List

PUT

/axapi/v3/ddos/detection/agent/{agent-name}

agent-list

Delete Object

DELETE

/axapi/v3/ddos/detection/agent/{agent-name}/oper

agent attributes

agent-list

agent-list is **JSON List** of *agent attributes*

```
agent-list : [
        { agent attributes },
        { agent attributes },
        ...
    ]
```

agent attributes

agent-name

Description Specify name for the agent

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

brand

Description

Type: string

sampler-list

Type: List

oper_sampler-list

Specification	Value
Type	*list*
Block object keys	

active-timeout

Description

Type: number

inactive-timeout

Description

Type: number

sample-mode

Description

Type: number

sampler-id

Description

Type: number

sampling-algorithm

Description

Type: number

sampling-rate

Description

Type: number

2.33.19 ddos detection agent sflow

Configure DDoS detection agent sFlow settings

sflow Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sflow
Element URI	/axapi/v3/ddos/detection/agent/{agent-name}/sflow
Element Attributes	sflow_attributes
Partition Visibility	shared
Schema	`sflow schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/agent/{agent-name}/sflow

sflow attributes

```
POST /axapi/v3/ddos/detection/agent/a/sflow
Payload:
{
    "sflow": {
        "sflow-pkt-samples-collection": "enable"
    }
}
```

Get Object

GET

/axapi/v3/ddos/detection/agent/{agent-name}/sflow

sflow attributes

```
GET /axapi/v3/ddos/detection/agent/a/sflow
Reponse:
{
    "sflow": {
        "sflow-pkt-samples-collection": "enable",
        "uuid": "fa22ccd8-0857-11f0-86c6-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/detection/agent/a/sflow"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/detection/agent/{agent-name}/sflow

sflow attributes

Replace Object

PUT

/axapi/v3/ddos/detection/agent/{agent-name}/sflow

sflow attributes

```
PUT /axapi/v3/ddos/detection/agent/a/sflow
Payload:
{
    "sflow": {
        "sflow-pkt-samples-collection": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/detection/agent/{agent-name}/sflow

sflow attributes

```
DELETE /axapi/v3/ddos/detection/agent/a/sflow
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

sflow attributes

sflow-pkt-samples-collection

Description 'enable': Enable sflow packet samples collection(default); 'disable': Disable sflow packet samples collection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.20 ddos detection agent stats

Statistics for the object agent

agent Specification

Parameter	Value
Type	*Collection*
Collection Name	*agent-list*
Collection URI	/axapi/v3/ddos/detection/agent/{agent-name}
Element Name	agent
Element URI	/axapi/v3/ddos/detection/agent/{agent-name}/stats
Element Attributes	agent_attributes
Partition Visibility	None
Schema	`agent schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/agent/{agent-name}

agent attributes

Create List

POST

/axapi/v3/ddos/detection/agent/{agent-name}

agent attributes

Get Object

GET

/axapi/v3/ddos/detection/agent/{agent-name}/stats

agent attributes

Get List

GET

/axapi/v3/ddos/detection/agent/{agent-name}

agent-list

Modify Object

POST

/axapi/v3/ddos/detection/agent/{agent-name}/stats

agent attributes

Replace Object

PUT

/axapi/v3/ddos/detection/agent/{agent-name}/stats

agent attributes

Replace List

PUT

/axapi/v3/ddos/detection/agent/{agent-name}

agent-list

Delete Object

DELETE

/axapi/v3/ddos/detection/agent/{agent-name}/stats

agent attributes

agent-list

agent-list is **JSON List** of *agent attributes*

```
agent-list : [
        { agent attributes },
        { agent attributes },
        ...
    ]
```

agent attributes

agent-name

Description Specify name for the agent

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

flow-detection-msgq-full

Description Detection Message Enqueue Failures

Type: number

Format: counter

flow-dst-entry-miss

Description DDoS Destination Entry Lookup Failures

Type: number

Format: counter

flow-ip-proto-or-port-miss

Description DDoS Destination Service Lookup Failures

Type: number

Format: counter

flow-network-entry-miss

Description DDoS Destination Network-object Entry Lookup Failures

Type: number

Format: counter

netflow-disabled

Description Netflow Flow Samples Processing Disabled

Type: number

Format: counter

netflow-icmp-sample-received

Description Netflow ICMP Samples Received

Type: number

Format: counter

netflow-other-sample-received

Description Netflow OTHER Samples Received

Type: number

Format: counter

netflow-record-copy-oom-error

Description Netflow Data Record Copy Fail, Local MEM size error

Type: number

Format: counter

netflow-record-rse-invalid

Description Netflow Data Record Reduced Size Invalid

Type: number

Format: counter

netflow-sample-flow-dur-error

Description Netflow Sample Flow Duration Error

Type: number

Format: counter

netflow-tcp-sample-received

Description Netflow TCP Samples Received

Type: number

Format: counter

netflow-udp-sample-received

Description Netflow UDP Samples received

Type: number

Format: counter

netflow-v10-max-records-exceed

Description Netflow v10 Sample Max records Error

Type: number

Format: counter

netflow-v10-packets-received

Description Netflow v10 Packets Received

Type: number

Format: counter

netflow-v10-sample-records-bad-len

Description Netflow v10 Sample Records Bad Length

Type: number

Format: counter

netflow-v10-samples-received

Description Netflow v10 Samples Received

Type: number

Format: counter

netflow-v10-samples-sent-for-detection

Description Netflow v10 Samples Procssed For Detection

Type: number

Format: counter

netflow-v5-max-records-exceed

Description Netflow v5 Sample Max Records Error

Type: number

Format: counter

netflow-v5-packets-received

Description Netflow v5 Packets Received

Type: number

Format: counter

netflow-v5-sample-records-bad-len

Description Netflow v5 Sample Records Bad Length

Type: number

Format: counter

netflow-v5-samples-received

Description Netflow v5 Samples Received

Type: number

Format: counter

netflow-v5-samples-sent-for-detection

Description Netflow v5 Samples Processed For Detection

Type: number

Format: counter

netflow-v9-max-records-exceed

Description Netflow v9 Sample Max Records Error

Type: number

Format: counter

netflow-v9-packets-received

Description Netflow v9 Packets Received

Type: number

Format: counter

netflow-v9-sample-flowset-bad-padding

Description Netflow v9 Sample Flowset Bad Padding

Type: number

Format: counter

netflow-v9-sample-records-bad-len

Description Netflow v9 Sample Records Bad Length

Type: number

Format: counter

netflow-v9-samples-received

Description Netflow v9 Samples Received

Type: number

Format: counter

netflow-v9-samples-sent-for-detection

Description Netflow v9 Samples Processed For Detection

Type: number

Format: counter

netflow-v9-template-not-found

Description Netflow v9 Template Not Found

Type: number

Format: counter

sflow-disabled

Description sFlow Packet Samples Processing Disabled

Type: number

Format: counter

sflow-packets-received

Description sFlow Packets Received

Type: number

Format: counter

sflow-sample-ipv6-hdr-parse-fail

Description sFlow Sample IPv6 Record Header Parse Failures

Type: number

Format: counter

sflow-sample-record-bad-len

Description sFlow Sample Records Bad Length

Type: number

Format: counter

sflow-sample-record-invalid-layer2

Description sFlow Sample Records Unknown Layer-2

Type: number

Format: counter

sflow-samples-bad-len

Description sFlow Samples Bad Length

Type: number

Format: counter

sflow-samples-non-std

Description sFlow Samples Non-standard

Type: number

Format: counter

sflow-samples-received

Description sFlow Samples Received

Type: number

Format: counter

sflow-samples-sent-for-detection

Description sFlow Samples Processed For Detection

Type: number

Format: counter

sflow-samples-skipped

Description sFlow Samples Skipped

Type: number

Format: counter

2.33.21 ddos detection ddos-script oper

Operational Status for the object ddos-script

ddos-script Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ddos-script
Element URI	/axapi/v3/ddos/detection/ddos-script/oper
Element Attributes	ddos-script_attributes
Partition Visibility	None
Schema	`ddos-script schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/ddos-script/oper

ddos-script attributes

Get Object

GET

/axapi/v3/ddos/detection/ddos-script/oper

ddos-script attributes

Modify Object

POST

/axapi/v3/ddos/detection/ddos-script/oper

ddos-script attributes

Replace Object

PUT

/axapi/v3/ddos/detection/ddos-script/oper

ddos-script attributes

Delete Object

DELETE

/axapi/v3/ddos/detection/ddos-script/oper

ddos-script attributes

ddos-script attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

total-records

Description

Type: number

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

file-size

Description

Type: number

reference-count

Description

Type: number

2.33.22 ddos detection entry-saving

Detection entries and indicators saving operations

entry-saving Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	entry-saving
Element URI	/axapi/v3/ddos/detection/entry-saving
Element Attributes	entry-saving_attributes
Partition Visibility	shared
Schema	`entry-saving schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/entry-saving

entry-saving attributes

```
POST /axapi/v3/ddos/detection/entry-saving
Payload:
{
    "entry-saving": {
        "clear-saved-data": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/detection/entry-saving

entry-saving attributes

```
GET /axapi/v3/ddos/detection/entry-saving
Reponse:
""
```

Modify Object

POST

/axapi/v3/ddos/detection/entry-saving

entry-saving attributes

Replace Object

PUT

/axapi/v3/ddos/detection/entry-saving

entry-saving attributes

Delete Object

DELETE

/axapi/v3/ddos/detection/entry-saving

entry-saving attributes

```
DELETE /axapi/v3/ddos/detection/entry-saving
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

entry-saving attributes

clear-saved-data

Description Clear all saved network-object-based detection entries and learned indicators

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-restore

Description Manually restore network-object-based detection entries and learned indicators

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-save

Description Manually save network-object-based detection entries and learned indicators

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.23 ddos detection resource-usage oper

Operational Status for the object resource-usage

resource-usage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	resource-usage
Element URI	/axapi/v3/ddos/detection/resource-usage/oper
Element Attributes	resource-usage_attributes
Partition Visibility	None
Schema	`resource-usage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/resource-usage/oper

resource-usage attributes

Get Object

GET

/axapi/v3/ddos/detection/resource-usage/oper

resource-usage attributes

Modify Object

POST

/axapi/v3/ddos/detection/resource-usage/oper

resource-usage attributes

Replace Object

PUT

/axapi/v3/ddos/detection/resource-usage/oper

resource-usage attributes

Delete Object

DELETE

/axapi/v3/ddos/detection/resource-usage/oper

resource-usage attributes

resource-usage attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

dynamic-resources

Type: List

static-resources

Type: List

oper_static-resources

Specification	Value
Type	*list*
Block object keys	

res-alloc

Description

Type: number

res-limit

Description

Type: number

res-name

Description

Type: string

oper_dynamic-resources

Specification	Value
Type	*list*
Block object keys	

res-alloc

Description

Type: number

res-limit

Description

Type: number

res-name

Description

Type: string

2.33.24 ddos detection settings

Configure ddos detection settings

settings Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	settings
Element URI	/axapi/v3/ddos/detection/settings
Element Attributes	settings_attributes
Partition Visibility	shared
Schema	`settings schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/settings

settings attributes

```
POST /axapi/v3/ddos/detection/settings
Payload:
{
    "settings": {
        "detector-mode": "standalone",
        "entry-saving": {
            "disable-bootup-restore": 1
        }
    }
}
```

Get Object

GET

/axapi/v3/ddos/detection/settings

settings attributes

```
GET /axapi/v3/ddos/detection/settings
Reponse:
{
    "settings": {
        "detector-mode": "standalone",
        "detection-window-size": 1,
        "network-object-window-size": "30",
        "network-object-flooding-multiple": 2,
        "uuid": "21d90e22-0858-11f0-86c6-001fa04507c0",
        "entry-saving": {
            "disable-bootup-restore": 1,
            "uuid": "21d91a5c-0858-11f0-86c6-001fa04507c0",
            "a10-url": "/axapi/v3/ddos/detection/settings/entry-saving"
        },
        "a10-url": "/axapi/v3/ddos/detection/settings"
```

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```
    }
}
```

Modify Object

POST

/axapi/v3/ddos/detection/settings

settings attributes

Replace Object

PUT

/axapi/v3/ddos/detection/settings

settings attributes

```
PUT /axapi/v3/ddos/detection/settings
Payload:
{
    "settings": {
        "detector-mode": "on-box",
        "entry-saving": {
            "interval": 2
        }
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/detection/settings

settings attributes

```
DELETE /axapi/v3/ddos/detection/settings
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Please save your configuration and reload/reboot for the configuration␣
↪to take effect"
    }
}
```

settings attributes

ctrl-cpu-usage

Description Control cpu usage threshold for DDoS detection

Type: number

Range: 1-100

de-escalation-quiet-time

Description Configure de-escalation needed time in minutes from level 1 to 0.(default 1 minutes)

Type: number

Range: 1-60

dedicated-cpus

Description Configure the number of dedicated cores for detection

Type: number

Range: 1-32

detection-window-size

Description Configure detection window size in seconds (DDoS detection window size in seconds(default: 1))

Type: number

Range: 1-60

Default: 1

detector-mode

Description 'standalone': Standalone detector; 'on-box': Mitigator and Detector on the same box; 'auto-svc-discovery': Auto Service discovery using Visibility module (Deprecatd);

Type: string

Supported Values: standalone, on-box, auto-svc-discovery

entry-saving

Description: entry-saving is a **JSON Block**. Please see below for *entry-saving*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/entry-saving*

export-interval

Description Configure Baselining and export interval in seconds (DDoS Baselining and export interval in seconds(default: 20))

Type: number

Range: 20-3000

Default: 20

full-core-enable

Description Enable full core

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

histogram-de-escalate-percentage

Description histogram de-escalate sensitivity for DDoS detection

Type: number

Range: 1-100

histogram-escalate-percentage

Description histogram escalate sensitivity for DDoS detection

Type: number

Range: 1-100

initial-learning-interval

Description Initial learning interval (in hours) before processing

Type: number

Range: 1-168

network-object-flooding-multiple

Description multiplier for flooding detection threshold in network objects (default 2x threshold)

Type: number

Range: 2-10

Default: 2

network-object-subnet-notify-percent

Description Send subnet notification when anomaly children subnet entries over configured percentage.(default 50%)

Type: number

Range: 1-100

network-object-window-size

Description '5': 5 seconds; '10': 10 seconds; '15': 15 seconds; '30': 30 seconds; (DDoS detection window size in seconds(default: 30))

Type: string

Supported Values: 5, 10, 15, 30

Default: 30

notification-debug-log

Description 'enable': Enable detection notification debug log (default: disabled);

Type: string

Supported Values: enable

pkt-sampling

Type: List

standalone-settings

Description: standalone-settings is a **JSON Block**. Please see below for *standalone-settings*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/standalone-settings*

top-k-reset-interval

Description Configure top-k reset interval

Type: number

Range: 1-60

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-notifications

Description: zone-notifications is a **JSON Block**. Please see below for *zone-notifications*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/zone-notifications*

entry-saving

Specification	Value
Type	*object*

disable-bootup-restore

Description Disable auto-restoring when system boots up

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

interval

Description Configure periodical auto-saving interval in minutes

Type: number

Range: 1-1440

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

standalone-settings

Specification	Value
Type	*object*

action

Description 'enable': Enable standalone detector; 'disable': Disable standalone detector (default);

Type: string

Supported Values: enable, disable

Default: disable

netflow

Description: netflow is a **JSON Block**. Please see below for *standalone-settings_netflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/standalone-settings/netflow*

sflow

Description: sflow is a **JSON Block**. Please see below for *standalone-settings_sflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/standalone-settings/sflow*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

standalone-settings_netflow

Specification	Value
Type	*object*

distribute-by-duration

Description 'enable': Enable data distribution by flow duration(default); 'disable': Disable data distribution by flow duration;

Type: string

Supported Values: enable, disable

Default: enable

listening-port

Description Netflow port to receive packets (Netflow port number(default 9996))

Type: number

Range: 1-65535

Default: 9996

template-active-timeout

Description Configure active timeout of the netflow templates received in mins (Template active timeout(mins)(default 30mins))

Type: number

Range: 2-300

Default: 30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

standalone-settings_sflow

Specification	Value
Type	*object*

listening-port

Description sFlow port to receive packets (sFlow port number(default 6343))

Type: number

Range: 1-65535

Default: 6343

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pkt-sampling

Specification	Value
Type	*list*
Block object keys	

override-rate

Description Sample 1 in X packets (default: X=1)

Type: number

Range: 1-50000000

start-level

Description Configure the start level for dynamic sampling adjustment (Sample 1 in N packets, the larger level the larger value of N (default: 1))

Type: number

Range: 1-10

Default: 1

zone-notifications

Specification	Value
Type	*object*

source-entry

Description 'enable': Enable source entry detection notification; 'disable': Disable source entry detection notification(default);

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.25 ddos detection settings entry-saving

Detection entries and indicators saving configuration

entry-saving Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	entry-saving
Element URI	/axapi/v3/ddos/detection/settings/entry-saving
Element Attributes	entry-saving_attributes
Partition Visibility	shared
Schema	`entry-saving schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/settings/entry-saving

entry-saving attributes

```
POST /axapi/v3/ddos/detection/settings/entry-saving
Payload:
{
    "entry-saving": {
        "disable-bootup-restore": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/detection/settings/entry-saving

entry-saving attributes

```
GET /axapi/v3/ddos/detection/settings/entry-saving
Reponse:
{
    "entry-saving": {
        "disable-bootup-restore": 1,
        "uuid": "75df3fd2-0858-11f0-86c6-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/detection/settings/entry-saving"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/detection/settings/entry-saving

entry-saving attributes

Replace Object

PUT

/axapi/v3/ddos/detection/settings/entry-saving

entry-saving attributes

```
PUT /axapi/v3/ddos/detection/settings/entry-saving
Payload:
{
    "entry-saving": {
        "disable-bootup-restore": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/detection/settings/entry-saving

entry-saving attributes

```
DELETE /axapi/v3/ddos/detection/settings/entry-saving
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

entry-saving attributes

disable-bootup-restore

Description Disable auto-restoring when system boots up

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

interval

Description Configure periodical auto-saving interval in minutes

Type: number

Range: 1-1440

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.26 ddos detection settings standalone-settings

Configure ddos standalone detection settings

standalone-settings Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	standalone-settings
Element URI	/axapi/v3/ddos/detection/settings/standalone-settings
Element Attributes	standalone-settings_attributes
Partition Visibility	shared
Schema	`standalone-settings schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/settings/standalone-settings

standalone-settings attributes

```
POST /axapi/v3/ddos/detection/settings/standalone-settings
Payload:
{
    "standalone-settings": {
        "sflow": {
            "listening-port": 1
        }
    }
}
```

Get Object

GET

/axapi/v3/ddos/detection/settings/standalone-settings

standalone-settings attributes

```
GET /axapi/v3/ddos/detection/settings/standalone-settings
Reponse:
{
    "standalone-settings": {
```

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```
        "uuid": "8e20b382-0858-11f0-86c6-001fa04507c0",
        "sflow": {
            "listening-port": 1,
            "uuid": "8e20bb3e-0858-11f0-86c6-001fa04507c0",
            "a10-url": "/axapi/v3/ddos/detection/settings/standalone-settings/sflow"
        },
        "a10-url": "/axapi/v3/ddos/detection/settings/standalone-settings"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/detection/settings/standalone-settings

standalone-settings attributes

Replace Object

PUT

/axapi/v3/ddos/detection/settings/standalone-settings

standalone-settings attributes

```
PUT /axapi/v3/ddos/detection/settings/standalone-settings
Payload:
{
    "standalone-settings": {
        "sflow": {
            "listening-port": 1
        }
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/detection/settings/standalone-settings

standalone-settings attributes

```
DELETE /axapi/v3/ddos/detection/settings/standalone-settings
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

standalone-settings attributes

action

Description 'enable': Enable standalone detector; 'disable': Disable standalone detector (default);

Type: string

Supported Values: enable, disable

Default: disable

netflow

Description: netflow is a **JSON Block**. Please see below for *netflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/standalone-settings/netflow*

sflow

Description: sflow is a **JSON Block**. Please see below for *sflow*

Type: Object

Reference Object: */axapi/v3/ddos/detection/settings/standalone-settings/sflow*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

netflow

Specification	Value
Type	*object*

distribute-by-duration

Description 'enable': Enable data distribution by flow duration(default); 'disable': Disable data distribution by flow duration;

Type: string

Supported Values: enable, disable

Default: enable

listening-port

Description Netflow port to receive packets (Netflow port number(default 9996))

Type: number

Range: 1-65535

Default: 9996

template-active-timeout

Description Configure active timeout of the netflow templates received in mins (Template active timeout(mins)(default 30mins))

Type: number

Range: 2-300

Default: 30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sflow

Specification	Value
Type	*object*

listening-port

Description sFlow port to receive packets (sFlow port number(default 6343))

Type: number

Range: 1-65535

Default: 6343

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.27 ddos detection settings standalone-settings netflow

Configure Netflow parameters for flow based detection

netflow Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	netflow
Element URI	/axapi/v3/ddos/detection/settings/standalone-settings/netflow
Element Attributes	netflow_attributes
Partition Visibility	shared
Schema	`netflow schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/settings/standalone-settings/netflow

netflow attributes

```
POST /axapi/v3/ddos/detection/settings/standalone-settings/netflow
Payload:
{
    "netflow": {
        "listening-port": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/detection/settings/standalone-settings/netflow

netflow attributes

```
GET /axapi/v3/ddos/detection/settings/standalone-settings/netflow
Reponse:
{
    "netflow": {
        "listening-port": 1,
        "template-active-timeout": 30,
        "distribute-by-duration": "enable",
        "uuid": "9cc00ef6-0858-11f0-86c6-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/detection/settings/standalone-settings/netflow"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/detection/settings/standalone-settings/netflow

netflow attributes

Replace Object

PUT

/axapi/v3/ddos/detection/settings/standalone-settings/netflow

netflow attributes

```
PUT /axapi/v3/ddos/detection/settings/standalone-settings/netflow
Payload:
{
    "netflow": {
        "listening-port": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/detection/settings/standalone-settings/netflow

netflow attributes

```
DELETE /axapi/v3/ddos/detection/settings/standalone-settings/netflow
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

netflow attributes

distribute-by-duration

Description 'enable': Enable data distribution by flow duration(default); 'disable': Disable data distribution by flow duration;

Type: string

Supported Values: enable, disable

Default: enable

listening-port

Description Netflow port to receive packets (Netflow port number(default 9996))

Type: number

Range: 1-65535

Default: 9996

template-active-timeout

Description Configure active timeout of the netflow templates received in mins (Template active timeout(mins)(default 30mins))

Type: number

Range: 2-300

Default: 30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.28 ddos detection settings standalone-settings sflow

Configure sFlow parameters for flow based detection

sflow Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sflow
Element URI	/axapi/v3/ddos/detection/settings/standalone-settings/sflow
Element Attributes	sflow_attributes
Partition Visibility	shared
Schema	`sflow schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/settings/standalone-settings/sflow

sflow attributes

```
POST /axapi/v3/ddos/detection/settings/standalone-settings/sflow
Payload:
{
    "sflow": {
        "listening-port": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/detection/settings/standalone-settings/sflow

sflow attributes

```
GET /axapi/v3/ddos/detection/settings/standalone-settings/sflow
Reponse:
{
    "sflow": {
        "listening-port": 1,
        "uuid": "adef795a-0858-11f0-86c6-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/detection/settings/standalone-settings/sflow"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/detection/settings/standalone-settings/sflow

sflow attributes

Replace Object

PUT

/axapi/v3/ddos/detection/settings/standalone-settings/sflow

sflow attributes

```
PUT /axapi/v3/ddos/detection/settings/standalone-settings/sflow
Payload:
{
    "sflow": {
        "listening-port": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/detection/settings/standalone-settings/sflow

sflow attributes

```
DELETE /axapi/v3/ddos/detection/settings/standalone-settings/sflow
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

sflow attributes

listening-port

Description sFlow port to receive packets (sFlow port number(default 6343))

Type: number

Range: 1-65535

Default: 6343

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.29 ddos detection settings zone-notifications

Configure ddos zone detection notification settings

zone-notifications Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	zone-notifications
Element URI	/axapi/v3/ddos/detection/settings/zone-notifications
Element Attributes	zone-notifications_attributes
Partition Visibility	shared
Schema	`zone-notifications schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/settings/zone-notifications

zone-notifications attributes

```
POST /axapi/v3/ddos/detection/settings/zone-notifications
Payload:
{
    "zone-notifications": {
        "source-entry": "enable"
    }
}
```

Get Object

GET

/axapi/v3/ddos/detection/settings/zone-notifications

zone-notifications attributes

```
GET /axapi/v3/ddos/detection/settings/zone-notifications
Reponse:
{
    "zone-notifications": {
        "source-entry": "enable",
        "uuid": "ba317d26-0858-11f0-86c6-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/detection/settings/zone-notifications"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/detection/settings/zone-notifications

zone-notifications attributes

Replace Object

PUT

/axapi/v3/ddos/detection/settings/zone-notifications

zone-notifications attributes

```
PUT /axapi/v3/ddos/detection/settings/zone-notifications
Payload:
{
    "zone-notifications": {
        "source-entry": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/detection/settings/zone-notifications

zone-notifications attributes

```
DELETE /axapi/v3/ddos/detection/settings/zone-notifications
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

zone-notifications attributes

source-entry

Description 'enable': Enable source entry detection notification; 'disable': Disable source entry detection notification(default);

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.30 ddos detection statistics

DDoS Detection statistics

statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	statistics
Element URI	/axapi/v3/ddos/detection/statistics
Element Attributes	statistics_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/detection/statistics/stats
Schema	`statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/statistics

statistics attributes

Get Object

GET

/axapi/v3/ddos/detection/statistics

statistics attributes

Modify Object

POST

/axapi/v3/ddos/detection/statistics

statistics attributes

Replace Object

PUT

/axapi/v3/ddos/detection/statistics

statistics attributes

Delete Object

DELETE

/axapi/v3/ddos/detection/statistics

statistics attributes

statistics attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.31 ddos detection statistics stats

Statistics for the object statistics

statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	statistics
Element URI	/axapi/v3/ddos/detection/statistics/stats
Element Attributes	statistics_attributes
Partition Visibility	None
Schema	`statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/statistics/stats

statistics attributes

Get Object

GET

/axapi/v3/ddos/detection/statistics/stats

statistics attributes

Modify Object

POST

/axapi/v3/ddos/detection/statistics/stats

statistics attributes

Replace Object

PUT

/axapi/v3/ddos/detection/statistics/stats

statistics attributes

Delete Object

DELETE

/axapi/v3/ddos/detection/statistics/stats

statistics attributes

statistics attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

agent-not-found

Description Detection Agent Not Found

Type: number

Format: counter

db-n-ip-restore-attempt

Description Entry-Saving Network IP Entry Restoring Attempt

Type: number

Format: counter

db-n-ip-save-attempt

Description Entry-Saving Network IP Entry Saving Attempt

Type: number

Format: counter

db-n-ip-save-failure

Description Entry-Saving Network IP Entry Saving Failure

Type: number

Format: counter

db-n-ip-table-create-failure

Description Entry-Saving Network IP Entry Storage Creation Failure

Type: number

Format: counter

db-n-ip-table-purge-failure

Description Entry-Saving Network IP Entry Storage Purge Failure

Type: number

Format: counter

db-n-parent-entry-not-found

Description Entry-Saving Network Parent Entry Not Found

Type: number

Format: counter

db-n-static-subnet-not-found

Description Entry-Saving Network Static Subnet Entry Not Found

Type: number

Format: counter

db-n-subnet-restore-attempt

Description Entry-Saving Network Subnet Entry Restoring Attempt

Type: number

Format: counter

db-n-subnet-save-attempt

Description Entry-Saving Network Subnet Entry Saving Attempt

Type: number

Format: counter

db-n-subnet-save-failure

Description Entry-Saving Network Subnet Entry Saving Failure

Type: number

Format: counter

db-n-subnet-table-create-failure

Description Entry-Saving Network Subnet Entry Storage Creation Failure

Type: number

Format: counter

db-n-subnet-table-purge-failure

Description Entry-Saving Network Subnet Entry Storage Purge Failure

Type: number

Format: counter

db-n-svc-restore-attempt

Description Entry-Saving Network Service Entry Restoring Attempt

Type: number

Format: counter

db-n-svc-save-attempt

Description Entry-Saving Network Service Entry Saving Attempt

Type: number

Format: counter

db-n-svc-save-failure

Description Entry-Saving Network Service Entry Saving Failure

Type: number

Format: counter

db-n-svc-table-create-failure

Description Entry-Saving Network Service Entry Storage Creation Failure

Type: number

Format: counter

db-n-svc-table-purge-failure

Description Entry-Saving Network Service Entry Storage Purge Failure

Type: number

Format: counter

db-open-failure

Description Entry-Saving Storage Open Failure

Type: number

Format: counter

db-oper-failure

Description Entry-Saving Storage Operation Failure

Type: number

Format: counter

db-unexpected-error

Description Entry-Saving Unexpected Error

Type: number

Format: counter

db-worker-enq-failure

Description Entry-Saving Periodic Saving Routine Schedule Failure

Type: number

Format: counter

dst-age

Description Dst Entry Aged

Type: number

Format: counter

dst-hit

Description Dst Entry Hit

Type: number

Format: counter

dst-ip-age

Description Dst IP Entry Aged

Type: number

Format: counter

dst-ip-learn

Description Dst IP Entry Learned

Type: number

Format: counter

dst-learn

Description Dst Entry Learned

Type: number

Format: counter

dst-miss

Description Dst Entry Missed

Type: number

Format: counter

dst-service-age

Description Dst Service Entry Aged

Type: number

Format: counter

dst-service-hit

Description Dst Service Entry Hit

Type: number

Format: counter

dst-service-learn

Description Dst Service Entry Learned

Type: number

Format: counter

dst-service-miss

Description Dst Service Entry Missed

Type: number

Format: counter

entry-alloc-fail

Description Entry Allocate Failure

Type: number

Format: counter

frag_rcvd

Description Fragment Received

Type: number

Format: counter

geo-age

Description Geolocation Entry Aged

Type: number

Format: counter

geo-learn

Description Geolocation Entry Learned

Type: number

Format: counter

invalid-event

Description Invalid Event in Notification

Type: number

Format: counter

invalid-proto

Description Invalid Proto in Notification

Type: number

Format: counter

ip_rcvd

Description IPv4 Received

Type: number

Format: counter

ipv6_rcvd

Description IPv6 Received

Type: number

Format: counter

n-ip-aged

Description IP Entry of Network-object Aged

Type: number

Format: counter

n-ip-create-fail

Description IP Entry of Network-object Create Failed

Type: number

Format: counter

n-ip-learned

Description IP Entry of Network-object Learned

Type: number

Format: counter

n-service-aged

Description Service Entry of Network-object Aged

Type: number

Format: counter

n-service-create-fail

Description Service Entry of Network-object Create Failed

Type: number

Format: counter

n-service-learned

Description Service Entry of Network-object Learned

Type: number

Format: counter

n-service-not-found

Description Service Entry of Network-object Not Found

Type: number

Format: counter

n-sport-aged

Description Source Port Entry of Network-object Aged

Type: number

Format: counter

n-sport-create-fail

Description Source Port Entry of Network-object Create Failed

Type: number

Format: counter

n-sport-learned

Description Source Port Entry of Network-object Learned

Type: number

Format: counter

n-sport-not-found

Description Source Port Entry of Network-object Not Found

Type: number

Format: counter

n-subnet-aged

Description Subnet Entry of Network-object Aged

Type: number

Format: counter

n-subnet-create-fail

Description Subnet Entry of Network-object Create Failed

Type: number

Format: counter

n-subnet-learned

Description Subnet Entry of Network-object learned

Type: number

Format: counter

netflow-pkts-received

Description Netflow Packets Received

Type: number

Format: counter

network-match-miss

Description Network-object Match Missed

Type: number

Format: counter

not-supported-sflow-ver

Description sFlow Packets Version Not Supported

Type: number

Format: counter

not-supproted-nflow-ver

Description Netflow Packets Version Not Supported

Type: number

Format: counter

object-alloc-oom

Description Object Allocate Failure Out of Memory

Type: number

Format: counter

pkt-drop

Description Flow Packets Dropped

Type: number

Format: counter

report-alloc-fail

Description Report Allocate Failure

Type: number

Format: counter

report-enqueue-fail

Description Report Enqueue Failure

Type: number

Format: counter

rtbh-start-fail

Description RTBH Start Notification Sent Failed

Type: number

Format: counter

rtbh-start-sent

Description RTBH Start Notification Sent

Type: number

Format: counter

rtbh-stop-fail

Description RTBH Stop Notification Sent Failed

Type: number

Format: counter

rtbh-stop-sent

Description RTBH Stop Notification Sent

Type: number

Format: counter

sample-procssed

Description Sample Processed

Type: number

Format: counter

session-aged

Description Session Aged

Type: number

Format: counter

session-allocate-fail

Description Session Allocate Failed

Type: number

Format: counter

session-learned

Description Session Learned

Type: number

Format: counter

session-match-miss

Description Session Match Missed

Type: number

Format: counter

sflow-packets-received

Description sFlow Packets Received

Type: number

Format: counter

src-age

Description Src Entry Aged

Type: number

Format: counter

src-hit

Description Src Entry Hit

Type: number

Format: counter

src-learn

Description Src Entry Learned

Type: number

Format: counter

src-miss

Description Src Entry Missed

Type: number

Format: counter

src-port-age

Description Src Port Entry Aged

Type: number

Format: counter

src-port-hit

Description Src Port Entry Hit

Type: number

Format: counter

src-port-learn

Description Src Port Entry Learned

Type: number

Format: counter

src-port-miss

Description Src Port Entry Missed

Type: number

Format: counter

trusted-sample-processed

Description Samples with Source IP in Trustlist Processed

Type: number

Format: counter

unmatch-entry-port-zero

Description Unmatched Entry Port-zero Packet

Type: number

Format: counter

2.33.32 ddos detection trustlist

Configure trusted IPv4/IPv6 classlists

trustlist Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	trustlist
Element URI	/axapi/v3/ddos/detection/trustlist
Element Attributes	trustlist_attributes
Partition Visibility	shared
Schema	`trustlist schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/detection/trustlist

trustlist attributes

```
POST /axapi/v3/ddos/detection/trustlist
Payload:
{
    "trustlist": {
        "v4-class-list": "a"
    }
}
```

Get Object

GET

/axapi/v3/ddos/detection/trustlist

trustlist attributes

```
GET /axapi/v3/ddos/detection/trustlist
Reponse:
{
    "trustlist": {
        "v4-class-list": "a",
        "uuid": "d28e7108-0858-11f0-86c6-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/detection/trustlist"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/detection/trustlist

trustlist attributes

Replace Object

PUT

/axapi/v3/ddos/detection/trustlist

trustlist attributes

Delete Object

DELETE

/axapi/v3/ddos/detection/trustlist

trustlist attributes

trustlist attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-class-list

Description IPv4 Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

v6-class-list

Description IPv6 Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.33 ddos dns-cache

DNS Cache Settings

dns-cache Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*dns-cache-list*
Collection URI	/axapi/v3/ddos/dns-cache
Element Name	dns-cache
Element URI	/axapi/v3/ddos/dns-cache/{name}
Element Attributes	dns-cache_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dns-cache/{name}/stats
Operational Data URI	/axapi/v3/ddos/dns-cache/{name}/oper
Schema	`dns-cache schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache

dns-cache attributes

```
POST /axapi/v3/ddos/dns-cache/
Payload:
{
    "dns-cache": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/dns-cache

dns-cache attributes

Get Object

GET

/axapi/v3/ddos/dns-cache/{name}

dns-cache attributes

Get List

GET

/axapi/v3/ddos/dns-cache

dns-cache-list

Modify Object

POST

/axapi/v3/ddos/dns-cache/{name}

dns-cache attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache/{name}

dns-cache attributes

Replace List

PUT

/axapi/v3/ddos/dns-cache

dns-cache-list

Delete Object

DELETE

/axapi/v3/ddos/dns-cache/{name}

dns-cache attributes

dns-cache-list

dns-cache-list is **JSON List** of *dns-cache attributes*

dns-cache-list : [

{ *dns-cache attributes* },

{ *dns-cache attributes* },

...

]

dns-cache attributes

any-query-action-str

Description 'respond-refuse': Send refuse response (default); 'respond-empty': Send empty response; 'drop': Drop the request;

Type: string

Supported Values: respond-refuse, respond-empty, drop

Default: respond-refuse

default-serving-action

Description 'serve-from-cache': Serve DNS records; 'forward': Forward to DNS server; 'drop': Drop the request;

Type: string

Supported Values: serve-from-cache, forward, drop

Default: serve-from-cache

dns-logging

Description DNS logging template

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

domain-group

Description: domain-group is a **JSON Block**. Please see below for *domain-group*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache/{name}/domain-group*

edns-udp-size

Description Set the maximum EDNS UDP message size

Type: number

Range: 512-4096

fqdn-manual-override-action-list

Type: List

Reference Object: */axapi/v3/ddos/dns-cache/{name}/fqdn-manual-override-action/{fqdn-name}*

name

Description DNS Cache Instance Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

neg-cache-action-follow-q-rate

Description Negative cached response queries counted toward query-rate-threshold

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

non-authoritative-zone-query-action-str

Description 'default': Default action: respond-refuse; 'forward': Forward to DNS server; 'respond-refuse': Send refuse response; 'drop': Drop the request;

Type: string

Supported Values: default, forward, respond-refuse, drop

Default: respond-refuse

respond-servfail

Description Respond with SERVFAIL for expired zones and zones failing to cache

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Type: List

sharded-domain-group-list

Type: List

Reference Object: */axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-domain-lookup-miss-action

Description 'respond-nxdomain': Send NxDomain response; 'drop': Drop the request;

Type: string

Supported Values: respond-nxdomain, drop

Default: respond-nxdomain

zone-manual-override-action-list

Type: List

Reference Object: */axapi/v3/ddos/dns-cache/{name}/zone-manual-override-action/{zone-name}*

zone-transfer

Description: zone-transfer is a **JSON Block**. Please see below for *zone-transfer*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache/{name}/zone-transfer*

domain-group

Specification	Value
Type	*object*

domain-list-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}*

name

Description DNS domain group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-group_domain-list-policy-list

Specification	Value
Type	*list*
Block object keys	

cache-all-records

Description cache all fqdn records including uncommon types

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: cache-all-records and cache-dnssec-records are mutually exclusive

cache-dnssec-records

Description cache all DNSSEC FQDN records types

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: cache-dnssec-records and cache-all-records are mutually exclusive

client-ipv4

Description Client ipv4 address

Type: string

Format: ipv4-address

client-ipv6

Description Client ipv6 address

Type: string

Format: ipv6-address

dns-notify-enable-ipv4

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-notify-enable-ipv6

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force

Description Force update even the serial is the same

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-refresh

Description Manually refresh the particular zone

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

name

Description DNS domain list policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oversize-answer-response

Description 'set-truncate-bit': Set the TC bit for oversize answer(default); 'disable-truncate-bit': Do not set TC bit for oversize answer;

Type: string

Supported Values: set-truncate-bit, disable-truncate-bit

Default: set-truncate-bit

packet-capturing

Description: packet-capturing is a **JSON Block**. Please see below for *domain-group_domain-list-policy-list_packet-capturing*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}/packet-capturing*

refresh-interval-hours

Description Zone transfer refresh rate in hours (Default 4). 0 means no refresh

Type: number

Range: 0-24

Default: 4

resolve-cname-record

Description Always try to resolve domain in CNAME record answer section

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

respond-with-authority

Description Respond with authority section for all requests under this list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

server-ipv4

Description Master ipv4 address

Type: string

Format: ipv4-address

server-ipv6

Description Master ipv6 address

Type: string

Format: ipv6-address

server-v4-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

server-v6-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

ttl-override

Description Override the TTL value for zone transfer

Type: number

Range: 1-2147483647

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-group_domain-list-policy-list_packet-capturing

Specification	Value
Type	*object*

root-zone-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-group_domain-list-policy-list_packet-capturing_root-zone-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

capture-mode

Description 'regular': Capture packet anyway; 'capture-on-failure': Capture packet if last XFR was failed;

Type: string

Supported Values: regular, capture-on-failure

root-zone

Description Specify root zone to be captured

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

fqdn-manual-override-action-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'default': Default; 'forward': Forward to DNS server; 'drop': Drop the request; 'serve-from-cache': Serve DNS records;

Type: string

Supported Values: default, forward, drop, serve-from-cache

fqdn-name

Description Specify fqdn name

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

zone-transfer

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'total-cached-fqdn': total-cached-fqdn; 'total-cached-records': total-cached-records; 'fqdn-a': fqdn-a; 'fqdn-aaaa': fqdn-aaaa; 'fqdn-cname': fqdn-cname; 'fqdn-ns': fqdn-ns; 'fqdn-mx': fqdn-mx; 'fqdn-soa': fqdn-soa; 'fqdn-srv': fqdn-srv; 'fqdn-txt': fqdn-txt; 'fqdn-ptr': fqdn-ptr; 'fqdn-other': fqdn-other; 'fqdn-wildcard': fqdn-wildcard; 'fqdn-delegation': fqdn-delegation; 'shard-size': shard-size; 'resp-ext-size': resp-ext-size; 'a-record': a-record; 'aaaa-record': aaaa-record; 'cname-record': cname-record; 'ns-record': ns-record; 'mx-record': mx-record; 'soa-record': soa-record; 'srv-record': srv-record; 'txt-record': txt-record; 'ptr-record': ptr-record; 'other-record': other-record; 'fqdn-in-shard-filter': fqdn-in-shard-filter;

Type: string

Supported Values: all, total-cached-fqdn, total-cached-records, fqdn-a, fqdn-aaaa, fqdn-cname, fqdn-ns, fqdn-mx, fqdn-soa, fqdn-srv, fqdn-txt, fqdn-ptr, fqdn-ta, fqdn-ds, fqdn-rrsig, fqdn-nsec, fqdn-dnskey, fqdn-nsec3, fqdn-nsec3param, fqdn-cds, fqdn-cdnskey, fqdn-other, fqdn-wildcard, fqdn-delegation, shard-size, resp-ext-size, a-record, aaaa-record, cname-record, ns-record, mx-record, soa-record, srv-record, txt-record, ptr-record, ta-record, ds-record, rrsig-record, nsec-record, dnskey-record, nsec3-record, nsec3param-record, cds-record, cdnskey-record, other-record, fqdn-in-shard-filter, alias-record, fqdn-alias

zone-manual-override-action-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'default': Default; 'forward': Forward to DNS server; 'drop': Drop the request; 'serve-from-cache': Serve DNS records;

Type: string

Supported Values: default, forward, drop, serve-from-cache

zone-name

Description Specify zone name

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

sharded-domain-group-list

Specification	Value
Type	*list*
Block object keys	

encap-template

Description DDOS encap template to sepcify the tunnel endpoint

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

match-action

Description 'forward': Forward query to server (default); 'tunnel-encap': Encapsulate the query and send on a tunnel;

Type: string

Supported Values: forward, tunnel-encap

Default: forward

name

Description DNS sharded domain group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sharded-domain-list-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sharded-domain-group-list_sharded-domain-list-policy-list

Specification	Value
Type	*list*
Block object keys	

client-ipv4

Description Client ipv4 address

Type: string

Format: ipv4-address

client-ipv6

Description Client ipv6 address

Type: string

Format: ipv6-address

dns-notify-enable-ipv4

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-notify-enable-ipv6

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force

Description Force update even the serial is the same

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-refresh

Description Manually refresh the particular zone

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

name

Description DNS sharded domain list policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capturing

Description: packet-capturing is a **JSON Block**. Please see below for *sharded-domain-group-list_sharded-domain-list-policy-list_packet-capturing*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}/packet-capturing*

refresh-interval-hours

Description Zone transfer refresh rate in hours (Default 4). 0 means no refresh

Type: number

Range: 0-24

Default: 4

server-ipv4

Description Master ipv4 address

Type: string

Format: ipv4-address

server-ipv6

Description Master ipv6 address

Type: string

Format: ipv6-address

server-v4-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

server-v6-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sharded-domain-group-list_sharded-domain-list-policy-list_packet-capturing

Specification	Value
Type	*object*

root-zone-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sharded-domain-group-list_sharded-domain-list-policy-list_packet-capturing_root-zone-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

capture-mode

Description 'regular': Capture packet anyway; 'capture-on-failure': Capture packet if last XFR was failed;

Type: string

Supported Values: regular, capture-on-failure

root-zone

Description Specify root zone to be captured

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

2.33.34 ddos dns-cache-config

DNS Cache Settings

dns-cache-config Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dns-cache-config
Element URI	/axapi/v3/ddos/dns-cache-config
Element Attributes	dns-cache-config_attributes
Partition Visibility	shared
Schema	`dns-cache-config schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache-config

dns-cache-config attributes

```
POST /axapi/v3/ddos/dns-cache-config
Payload:
{
    "dns-cache-config": {
        "edns-udp-size": 512,
        "max-concurrent-zone-transfers": {
            "warm-up-mode": 100
        }
    }
}
```

Get Object

GET

/axapi/v3/ddos/dns-cache-config

dns-cache-config attributes

Modify Object

POST

/axapi/v3/ddos/dns-cache-config

dns-cache-config attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache-config

dns-cache-config attributes

Delete Object

DELETE

/axapi/v3/ddos/dns-cache-config

dns-cache-config attributes

dns-cache-config attributes

disable-zone-transfer-in-oper-mode

Description Disable operational refreshing zone transfer

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-zone-transfer-in-warm-up-mode

Description Disable warm up zone transfer

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

edns-udp-size

Description Set the global maximum EDNS UDP message size (Default: 1232)

Type: number

Range: 512-4096

Default: 1232

enable-cache-warm-up-bgp-advertise

Description Enable route injection during cold boot

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-concurrent-zone-transfers

Description: max-concurrent-zone-transfers is a **JSON Block**. Please see below for *max-concurrent-zone-transfers*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache-config/max-concurrent-zone-transfers*

minimal-truncation-responses

Description Enable sending an empty DNS message when the response is truncated.

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

max-concurrent-zone-transfers

Specification	Value
Type	*object*

operational-mode

Description Number of concurrent zone transfers after boot

Type: number

Range: 1-3120

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

warm-up-mode

Description Number of concurrent zone transfers during cold boot (default 65472)

Type: number

Range: 100-65535

Default: 65472

2.33.35 ddos dns-cache-config max-concurrent-zone-transfers

Cold-Boot configuration

max-concurrent-zone-transfers Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	max-concurrent-zone-transfers
Element URI	/axapi/v3/ddos/dns-cache-config/max-concurrent-zone-transfers
Element Attributes	max-concurrent-zone-transfers_attributes
Partition Visibility	shared
Schema	`max-concurrent-zone-transfers schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache-config/max-concurrent-zone-transfers

max-concurrent-zone-transfers attributes

```
POST /axapi/v3/ddos/dns-cache-config/max-concurrent-zone-transfers
Payload:
{
    "max-concurrent-zone-transfers": {
        "warm-up-mode": 100
    }
}
```

Get Object

GET

/axapi/v3/ddos/dns-cache-config/max-concurrent-zone-transfers

max-concurrent-zone-transfers attributes

Modify Object

POST

/axapi/v3/ddos/dns-cache-config/max-concurrent-zone-transfers

max-concurrent-zone-transfers attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache-config/max-concurrent-zone-transfers

max-concurrent-zone-transfers attributes

Delete Object

DELETE

/axapi/v3/ddos/dns-cache-config/max-concurrent-zone-transfers

max-concurrent-zone-transfers attributes

max-concurrent-zone-transfers attributes

operational-mode

Description Number of concurrent zone transfers after boot

Type: number

Range: 1-3120

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

warm-up-mode

Description Number of concurrent zone transfers during cold boot (default 65472)

Type: number

Range: 100-65535

Default: 65472

2.33.36 ddos dns-cache domain-group

DNS Cache Settings

domain-group Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	domain-group
Element URI	/axapi/v3/ddos/dns-cache/{name}/domain-group
Element Attributes	domain-group_attributes
Partition Visibility	shared
Schema	`domain-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache/{name}/domain-group

domain-group attributes

```
POST /axapi/v3/ddos/dns-cache/a/domain-group
Payload:
{
    "domain-group": {
        "name": "a"
    }
}
```

Get Object

GET

/axapi/v3/ddos/dns-cache/{name}/domain-group

domain-group attributes

Modify Object

POST

/axapi/v3/ddos/dns-cache/{name}/domain-group

domain-group attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache/{name}/domain-group

domain-group attributes

Delete Object

DELETE

/axapi/v3/ddos/dns-cache/{name}/domain-group

domain-group attributes

domain-group attributes

domain-list-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}*

name

Description DNS domain group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list-policy-list

Specification	Value
Type	*list*
Block object keys	

cache-all-records

Description cache all fqdn records including uncommon types

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: cache-all-records and cache-dnssec-records are mutually exclusive

cache-dnssec-records

Description cache all DNSSEC FQDN records types

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: cache-dnssec-records and cache-all-records are mutually exclusive

client-ipv4

Description Client ipv4 address

Type: string

Format: ipv4-address

client-ipv6

Description Client ipv6 address

Type: string

Format: ipv6-address

dns-notify-enable-ipv4

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-notify-enable-ipv6

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force

Description Force update even the serial is the same

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-refresh

Description Manually refresh the particular zone

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

name

Description DNS domain list policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oversize-answer-response

Description 'set-truncate-bit': Set the TC bit for oversize answer(default); 'disable-truncate-bit': Do not set TC bit for oversize answer;

Type: string

Supported Values: set-truncate-bit, disable-truncate-bit

Default: set-truncate-bit

packet-capturing

Description: packet-capturing is a **JSON Block**. Please see below for *domain-list-policy-list_packet-capturing*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}/packet-capturing*

refresh-interval-hours

Description Zone transfer refresh rate in hours (Default 4). 0 means no refresh

Type: number

Range: 0-24

Default: 4

resolve-cname-record

Description Always try to resolve domain in CNAME record answer section

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

respond-with-authority

Description Respond with authority section for all requests under this list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

server-ipv4

Description Master ipv4 address

Type: string

Format: ipv4-address

server-ipv6

Description Master ipv6 address

Type: string

Format: ipv6-address

server-v4-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

server-v6-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

ttl-override

Description Override the TTL value for zone transfer

Type: number

Range: 1-2147483647

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list-policy-list_packet-capturing

Specification	Value
Type	*object*

root-zone-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list-policy-list_packet-capturing_root-zone-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

capture-mode

Description 'regular': Capture packet anyway; 'capture-on-failure': Capture packet if last XFR was failed;

Type: string

Supported Values: regular, capture-on-failure

root-zone

Description Specify root zone to be captured

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

2.33.37 ddos dns-cache domain-group domain-list-policy

DNS Cache Settings

domain-list-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*domain-list-policy-list*
Collection URI	/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy
Element Name	domain-list-policy
Element URI	/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}
Element Attributes	domain-list-policy_attributes
Partition Visibility	shared
Schema	`domain-list-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy

domain-list-policy attributes

Create List

POST

/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy

domain-list-policy attributes

Get Object

GET

/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}

domain-list-policy attributes

Get List

GET

/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy

domain-list-policy-list

Modify Object

POST

/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}

domain-list-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}

domain-list-policy attributes

Replace List

PUT

/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy

domain-list-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}

domain-list-policy attributes

domain-list-policy-list

domain-list-policy-list is **JSON List** of *domain-list-policy attributes*

domain-list-policy-list : [

{ *domain-list-policy attributes* },

{ *domain-list-policy attributes* },

...

]

domain-list-policy attributes

cache-all-records

Description cache all fqdn records including uncommon types

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: cache-all-records and cache-dnssec-records are mutually exclusive

cache-dnssec-records

Description cache all DNSSEC FQDN records types

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: cache-dnssec-records and cache-all-records are mutually exclusive

client-ipv4

Description Client ipv4 address

Type: string

Format: ipv4-address

client-ipv6

Description Client ipv6 address

Type: string

Format: ipv6-address

dns-notify-enable-ipv4

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-notify-enable-ipv6

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force

Description Force update even the serial is the same

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-refresh

Description Manually refresh the particular zone

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

name

Description DNS domain list policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oversize-answer-response

Description 'set-truncate-bit': Set the TC bit for oversize answer(default); 'disable-truncate-bit': Do not set TC bit for oversize answer;

Type: string

Supported Values: set-truncate-bit, disable-truncate-bit

Default: set-truncate-bit

packet-capturing

Description: packet-capturing is a **JSON Block**. Please see below for *packet-capturing*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}/packet-capturing*

refresh-interval-hours

Description Zone transfer refresh rate in hours (Default 4). 0 means no refresh

Type: number

Range: 0-24

Default: 4

resolve-cname-record

Description Always try to resolve domain in CNAME record answer section

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

respond-with-authority

Description Respond with authority section for all requests under this list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

server-ipv4

Description Master ipv4 address

Type: string

Format: ipv4-address

server-ipv6

Description Master ipv6 address

Type: string

Format: ipv6-address

server-v4-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

server-v6-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

ttl-override

Description Override the TTL value for zone transfer

Type: number

Range: 1-2147483647

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-capturing

Specification	Value
Type	*object*

root-zone-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-capturing_root-zone-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

capture-mode

Description 'regular': Capture packet anyway; 'capture-on-failure': Capture packet if last XFR was failed;

Type: string

Supported Values: regular, capture-on-failure

root-zone

Description Specify root zone to be captured

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

2.33.38 ddos dns-cache domain-group domain-list-policy packet-capturing

Capture packet trace of specified root zones when doing zone transfer

packet-capturing Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	packet-capturing
Element URI	/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}/packet-capturing
Element Attributes	packet-capturing_attributes
Partition Visibility	shared
Schema	`packet-capturing schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}/packet-capturing

packet-capturing attributes

Get Object

GET

/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}/packet-capturing

packet-capturing attributes

Modify Object

POST

/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}/packet-capturing

packet-capturing attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}/packet-capturing

packet-capturing attributes

Delete Object

DELETE

/axapi/v3/ddos/dns-cache/{name}/domain-group/domain-list-policy/{name}/packet-capturing

packet-capturing attributes

packet-capturing attributes

root-zone-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

root-zone-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

capture-mode

Description 'regular': Capture packet anyway; 'capture-on-failure': Capture packet if last XFR was failed;

Type: string

Supported Values: regular, capture-on-failure

root-zone

Description Specify root zone to be captured

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

2.33.39 ddos dns-cache-mode

DNS Cache Mode

dns-cache-mode Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dns-cache-mode
Element URI	/axapi/v3/ddos/dns-cache-mode
Element Attributes	dns-cache-mode_attributes
Partition Visibility	shared
Schema	`dns-cache-mode schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache-mode

dns-cache-mode attributes

```
POST /axapi/v3/ddos/dns-cache-mode
Payload:
{
    "dns-cache-mode": {
        "enable": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/dns-cache-mode

dns-cache-mode attributes

Modify Object

POST

/axapi/v3/ddos/dns-cache-mode

dns-cache-mode attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache-mode

dns-cache-mode attributes

Delete Object

DELETE

/axapi/v3/ddos/dns-cache-mode

dns-cache-mode attributes

dns-cache-mode attributes

enable

Description Enable DNS Cache mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.40 ddos dns-cache oper

Operational Status for the object dns-cache

dns-cache Specification

Parameter	Value
Type	*Collection*
Collection Name	*dns-cache-list*
Collection URI	/axapi/v3/ddos/dns-cache/{name}
Element Name	dns-cache
Element URI	/axapi/v3/ddos/dns-cache/{name}/oper
Element Attributes	dns-cache_attributes
Partition Visibility	None
Schema	`dns-cache schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache/{name}

dns-cache attributes

Create List

POST

/axapi/v3/ddos/dns-cache/{name}

dns-cache attributes

Get Object

GET

/axapi/v3/ddos/dns-cache/{name}/oper

dns-cache attributes

Get List

GET

/axapi/v3/ddos/dns-cache/{name}

dns-cache-list

Modify Object

POST

/axapi/v3/ddos/dns-cache/{name}/oper

dns-cache attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache/{name}/oper

dns-cache attributes

Replace List

PUT

/axapi/v3/ddos/dns-cache/{name}

dns-cache-list

Delete Object

DELETE

/axapi/v3/ddos/dns-cache/{name}/oper

dns-cache attributes

dns-cache-list

dns-cache-list is **JSON List** of *dns-cache attributes*

dns-cache-list : [

{ *dns-cache attributes* },

{ *dns-cache attributes* },

...

]

dns-cache attributes

name

Description DNS Cache Instance Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

zone-transfer

Description: zone-transfer is a **JSON Block**. Please see below for *zone-transfer*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache/{name}/zone-transfer*

oper

Specification	Value
Type	*object*

additional-section

Type: List

additional-section-record-count

Description Additional section record Count

Type: number

additional-section-size

Description Additional section size

Type: number

all-cached-fqdn

Description

Type: boolean

Supported Values: true, false, 1, 0

answer-section

Type: List

answer-section-record-count

Description Answer section record Count

Type: number

answer-section-size

Description Answer section size

Type: number

authoritative-section

Type: List

authority-section-record-count

Description Authority section record Count

Type: number

authority-section-size

Description Autority section size

Type: number

cached-fqdn-name

Description

Type: string

Format: string-rlx

debug-mode

Description

Type: boolean

Supported Values: true, false, 1, 0

domain-entries

Type: List

record-type

Description

Type: string

response-flag

Description response flag

Type: string

response-status

Description response status

Type: string

oper_domain-entries

Specification	Value
Type	*list*
Block object keys	

delegation-node

Description Delegation Node

Type: string

Supported Values: Yes, No

empty-non-terminal-node

Description Empty Non-Terminal Node

Type: string

Supported Values: Yes, No

fqdn-manual-override-action

Description FQDN Manual Override Action

Type: string

fqdn-name

Description FQDN Name

Type: string

record-types

Description Type of the records supported

Type: string

wild-card-node

Description Wild Card Node

Type: string

Supported Values: Yes, No

oper_authoritative-section

Specification	Value
Type	*list*
Block object keys	

record-class

Description Class

Type: string

record-data

Description Record Data

Type: string

record-domain-name

Description Name of the Domain

Type: string

record-ttl

Description TTL

Type: number

record-type

Description Type of the record

Type: string

oper_additional-section

Specification	Value
Type	*list*
Block object keys	

record-class

Description Class

Type: string

record-data

Description Record Data

Type: string

record-domain-name

Description Name of the Domain

Type: string

record-ttl

Description TTL

Type: number

record-type

Description Type of the record

Type: string

oper_answer-section

Specification	Value
Type	*list*
Block object keys	

record-class

Description Class

Type: string

record-data

Description Record Data

Type: string

record-domain-name

Description Name of the Domain

Type: string

record-ttl

Description TTL

Type: number

record-type

Description Type of the record

Type: string

zone-transfer

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *zone-transfer_oper*

Type: Object

zone-transfer_oper

Specification	Value
Type	*object*

debug-mode

Description

Type: boolean

Supported Values: true, false, 1, 0

estimated-next-update

Description Estimated Next Update

Type: string

local-ip

Description Local IP

Type: string

remain-expiration-time

Description Remaining Seconds Before Expiring

Type: string

remote-ip

Description Remote IP

Type: string

sflow-source-id

Description Sflow Source ID

Type: string

statistics

Description

Type: boolean

Supported Values: true, false, 1, 0

status

Description

Type: string

Supported Values: ongoing, completed, scheduled

total-fqdn-in-table

Description

Type: string

zone

Description

Type: string

zone-name

Description Zone Name

Type: string

zone-transfer-history-list

Type: List

zone-transfer-statistics

Type: List

zone-transfer-status-list

Type: List

zt-statistics

Description

Type: boolean

Supported Values: true, false, 1, 0

zts-sflow-source-id

Description

Type: string

zone-transfer_oper_zone-transfer-history-list

Specification	Value
Type	*list*
Block object keys	

cached-fqdn

Description Total Cached FQDN

Type: number

cached-fqdn-second-pass

Description Total Cached FQDN in the Second Pass

Type: number

dns-message-pending-processed

Description DNS message pending Processed

Type: number

dns-message-processed

Description DNS Message Processed

Type: number

records-processed

Description Records Processed

Type: number

serial-number

Description Serial Number

Type: string

tcp-connection-begin-time

Description TCP connection Begin Time

Type: string

tcp-connection-end-time

Description TCP Connection End Time

Type: string

total-failure

Description Total Failure

Type: string

total-node-in-table

Description Total FQDN Node in Cache Instance Table

Type: number

update-status

Description Update Status

Type: string

zone-transfer-begin-time

Description Zone Transfer Begin Time

Type: string

zone-transfer-end-time

Description Zone Transfer End Time

Type: string

zone-transfer-result

Description Zone Transfer Result

Type: string

zone-transfer_oper_zone-transfer-status-list

Specification	Value
Type	*list*
Block object keys	

estimated-next-update

Description Estimated Next Update

Type: string

last-complete-serial

Description Last Complete Serial

Type: string

last-complete-update

Description Last Complete Update

Type: string

last-update

Description Last Update Status

Type: string

remain-expiration-time

Description Remaining Seconds Before Expiring

Type: string

sflow-source-id

Description Sflow Source ID

Type: string

zone-name

Description Zone Name

Type: string

zone-transfer_oper_zone-transfer-statistics

Specification	Value
Type	*list*
Block object keys	

stats-count

Description

Type: number

stats-name

Description

Type: string

2.33.41 ddos dns-cache-server

DDOS DNS Cache Server Statistics

dns-cache-server Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dns-cache-server
Element URI	/axapi/v3/ddos/dns-cache-server
Element Attributes	dns-cache-server_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dns-cache-server/stats
Schema	`dns-cache-server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache-server

dns-cache-server attributes

Get Object

GET

/axapi/v3/ddos/dns-cache-server

dns-cache-server attributes

Modify Object

POST

/axapi/v3/ddos/dns-cache-server

dns-cache-server attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache-server

dns-cache-server attributes

Delete Object

DELETE

/axapi/v3/ddos/dns-cache-server

dns-cache-server attributes

dns-cache-server attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.42 ddos dns-cache-server stats

Statistics for the object dns-cache-server

dns-cache-server Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dns-cache-server
Element URI	/axapi/v3/ddos/dns-cache-server/stats
Element Attributes	dns-cache-server_attributes
Partition Visibility	None
Schema	`dns-cache-server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache-server/stats

dns-cache-server attributes

Get Object

GET

/axapi/v3/ddos/dns-cache-server/stats

dns-cache-server attributes

Modify Object

POST

/axapi/v3/ddos/dns-cache-server/stats

dns-cache-server attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache-server/stats

dns-cache-server attributes

Delete Object

DELETE

/axapi/v3/ddos/dns-cache-server/stats

dns-cache-server attributes

dns-cache-server attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

alias_subtype_already_exist

Description ALIAS Record Subtype Already Exists

Type: number

Format: counter

dns_prebuild_alloc_fail

Description DNS Prebuild Alloc Fail

Type: number

Format: counter

dnssec_rrsig_link_fail

Description DNSSEC RRSIG Link Failure

Type: number

Format: counter

insert_apex_zone_node_fail

Description Insert Apex Zone Node Fail

Type: number

Format: counter

insert_fail_all

Description Insert Fail

Type: number

Format: counter

insert_success

Description Insert Success

Type: number

Format: counter

insert_suffix_fqdn_node_fail

Description Insert Suffix FQDN Node Fail

Type: number

Format: counter

insert_total

Description Insert Total

Type: number

Format: counter

lookup_any_type_query_action_drop

Description Lookup DNS ANY Type Query Action Drop

Type: number

Format: counter

lookup_any_type_query_action_refused

Description Lookup DNS ANY Type Query Action Refused

Type: number

Format: counter

lookup_any_type_query_action_resp_empty

Description Lookup DNS ANY Type Query Action Response Empty

Type: number

Format: counter

lookup_default_action_drop

Description Lookup DNS Default Action Drop

Type: number

Format: counter

lookup_default_action_forward

Description Lookup DNS Default Action Forward

Type: number

Format: counter

lookup_deleg_resp

Description Lookup Delegation Response

Type: number

Format: counter

lookup_dnstcp_rcvd

Description Lookup DNS-TCP Request Received

Type: number

Format: counter

lookup_dnsudp_rcvd

Description Lookup DNS-UDP Request Received

Type: number

Format: counter

lookup_edns_bad_version_resp

Description Lookup EDNS Bad Version Response

Type: number

Format: counter

lookup_empty_resp

Description Lookup Empty Response

Type: number

Format: counter

lookup_full_matched

Description Lookup Fully Matched

Type: number

Format: counter

lookup_fwd_server

Description Lookup Forwarded to Server

Type: number

Format: counter

lookup_fwd_shard

Description Lookup Forwarded to Sharding DNS Cache

Type: number

Format: counter

lookup_incomp_zone

Description Lookup Incomplete Zone

Type: number

Format: counter

lookup_invalid_domain

Description Lookup Invalid Domain

Type: number

Format: counter

lookup_manual_override_action_drop

Description Lookup DNS Manual Override Action Drop

Type: number

Format: counter

lookup_manual_override_action_forward

Description Lookup DNS Manual Override Action Forward

Type: number

Format: counter

lookup_manual_override_action_serve

Description Lookup DNS Manual Override Action Serve

Type: number

Format: counter

lookup_non_auth_zone_query_action_drop

Description Lookup DNS Non-Authoritative Zone Query Action Drop

Type: number

Format: counter

lookup_non_auth_zone_query_action_forward

Description Lookup DNS Non-Authoritative Zone Query Action Forward

Type: number

Format: counter

lookup_non_auth_zone_query_action_resp_refused

Description Lookup DNS Non-Authoritative Zone Query Action Refused

Type: number

Format: counter

lookup_nxdomain_resp

Description Lookup Nxdomain Response

Type: number

Format: counter

lookup_opcode_notimpl_resp

Description Lookup Opcode Not Implemented Response

Type: number

Format: counter

lookup_refuse_resp

Description Lookup Refuse Response

Type: number

Format: counter

lookup_servfail_resp

Description Lookup Server Fail Response

Type: number

Format: counter

lookup_undefined_rtype

Description Lookup Undefined Record Type

Type: number

Format: counter

lookup_unexp_err

Description Lookup Unexpected Error

Type: number

Format: counter

shard_filter_match

Description Lookup Shard Filter Matched

Type: number

Format: counter

suffix_table_trylock_fail

Description DNS Cache Suffix Table Trylock Fail

Type: number

Format: counter

zone_apex_suffix_node_insert_fail

Description Zone Apex Suffix Node Insert Fail

Type: number

Format: counter

zt_axfr_attempts

Description Zone Transfer AXFR Started

Type: number

Format: counter

zt_completed_no_update

Description Zone Transfer Completed No Update

Type: number

Format: counter

zt_completed_ok

Description Zone Transfer Completed

Type: number

Format: counter

zt_dns_process_err

Description Zone Transfer DNS Processing Errors

Type: number

Format: counter

zt_msg_rcode_notauth

Description Zone Transfer Server Not Auth Fail

Type: number

Format: counter

zt_ongoing_tasks

Description Zone Transfer Ongoing tasks

Type: number

Format: counter

zt_records_processed

Description Zone Transfer Records Processed

Type: number

Format: counter

zt_serial_num_check_attempts

Description Zone Transfer Serial Number Check Started

Type: number

Format: counter

zt_task_no_route_retry

Description Zone Transfer Task No Route Fail

Type: number

Format: counter

zt_tcp_conn_connect_server_fail

Description Zone Transfer TCP Connect Server Fail

Type: number

Format: counter

zt_tcp_conn_rst

Description Zone Transfer TCP RST / FIN Received

Type: number

Format: counter

zt_total_fail

Description Zone Transfer Total Failure

Type: number

Format: counter

2.33.43 ddos dns-cache sharded-domain-group

DNS Sharded Domain Group

sharded-domain-group Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*sharded-domain-group-list*
Collection URI	/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group
Element Name	sharded-domain-group
Element URI	/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}
Element Attributes	sharded-domain-group_attributes
Partition Visibility	shared
Schema	`sharded-domain-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group

sharded-domain-group attributes

Create List

POST

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group

sharded-domain-group attributes

Get Object

GET

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}

sharded-domain-group attributes

Get List

GET

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group

sharded-domain-group-list

Modify Object

POST

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}

sharded-domain-group attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}

sharded-domain-group attributes

Replace List

PUT

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group

sharded-domain-group-list

Delete Object

DELETE

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}

sharded-domain-group attributes

sharded-domain-group-list

sharded-domain-group-list is **JSON List** of *sharded-domain-group attributes*

sharded-domain-group-list : [

{ *sharded-domain-group attributes* },

{ *sharded-domain-group attributes* },

...

]

sharded-domain-group attributes

encap-template

Description DDOS encap template to sepcify the tunnel endpoint

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

match-action

Description 'forward': Forward query to server (default); 'tunnel-encap': Encapsulate the query and send on a tunnel;

Type: string

Supported Values: forward, tunnel-encap

Default: forward

name

Description DNS sharded domain group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sharded-domain-list-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sharded-domain-list-policy-list

Specification	Value
Type	*list*
Block object keys	

client-ipv4

Description Client ipv4 address

Type: string

Format: ipv4-address

client-ipv6

Description Client ipv6 address

Type: string

Format: ipv6-address

dns-notify-enable-ipv4

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-notify-enable-ipv6

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force

Description Force update even the serial is the same

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-refresh

Description Manually refresh the particular zone

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

name

Description DNS sharded domain list policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capturing

Description: packet-capturing is a **JSON Block**. Please see below for *sharded-domain-list-policy-list_packet-capturing*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}/packet-capturing*

refresh-interval-hours

Description Zone transfer refresh rate in hours (Default 4). 0 means no refresh

Type: number

Range: 0-24

Default: 4

server-ipv4

Description Master ipv4 address

Type: string

Format: ipv4-address

server-ipv6

Description Master ipv6 address

Type: string

Format: ipv6-address

server-v4-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

server-v6-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sharded-domain-list-policy-list_packet-capturing

Specification	Value
Type	*object*

root-zone-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sharded-domain-list-policy-list_packet-capturing_root-zone-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

capture-mode

Description 'regular': Capture packet anyway; 'capture-on-failure': Capture packet if last XFR was failed;

Type: string

Supported Values: regular, capture-on-failure

root-zone

Description Specify root zone to be captured

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

2.33.44 ddos dns-cache sharded-domain-group sharded-domain-list-policy

DNS Sharded Domain List

sharded-domain-list-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*sharded-domain-list-policy-list*
Collection URI	/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy
Element Name	sharded-domain-list-policy
Element URI	/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}
Element Attributes	sharded-domain-list-policy_attributes
Partition Visibility	shared
Schema	`sharded-domain-list-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy

sharded-domain-list-policy attributes

Create List

POST

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy

sharded-domain-list-policy attributes

Get Object

GET

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}

sharded-domain-list-policy attributes

Get List

GET

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy

sharded-domain-list-policy-list

Modify Object

POST

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}

sharded-domain-list-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}

sharded-domain-list-policy attributes

Replace List

PUT

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy

sharded-domain-list-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}

sharded-domain-list-policy attributes

sharded-domain-list-policy-list

sharded-domain-list-policy-list is **JSON List** of *sharded-domain-list-policy attributes*

sharded-domain-list-policy-list : [

{ *sharded-domain-list-policy attributes* },

{ *sharded-domain-list-policy attributes* },

…

]

sharded-domain-list-policy attributes

client-ipv4

Description Client ipv4 address

Type: string

Format: ipv4-address

client-ipv6

Description Client ipv6 address

Type: string

Format: ipv6-address

dns-notify-enable-ipv4

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-notify-enable-ipv6

Description DNS notify enabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force

Description Force update even the serial is the same

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-refresh

Description Manually refresh the particular zone

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

name

Description DNS sharded domain list policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

packet-capturing

Description: packet-capturing is a **JSON Block**. Please see below for *packet-capturing*

Type: Object

Reference Object: */axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}/packet-capturing*

refresh-interval-hours

Description Zone transfer refresh rate in hours (Default 4). 0 means no refresh

Type: number

Range: 0-24

Default: 4

server-ipv4

Description Master ipv4 address

Type: string

Format: ipv4-address

server-ipv6

Description Master ipv6 address

Type: string

Format: ipv6-address

server-v4-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

server-v6-port

Description Port number (default 53)

Type: number

Range: 1-65535

Default: 53

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-capturing

Specification	Value
Type	*object*

root-zone-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-capturing_root-zone-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

capture-mode

Description 'regular': Capture packet anyway; 'capture-on-failure': Capture packet if last XFR was failed;

Type: string

Supported Values: regular, capture-on-failure

root-zone

Description Specify root zone to be captured

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

2.33.45 ddos dns-cache sharded-domain-group sharded-domain-list-policy packet-capturing

Capture packet trace of specified root zones when doing zone transfer

packet-capturing Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	packet-capturing
Element URI	/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}/packet-capturing
Element Attributes	packet-capturing_attributes
Partition Visibility	shared
Schema	`packet-capturing schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}/packet-capturing

packet-capturing attributes

Get Object

GET

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}/packet-capturing

packet-capturing attributes

Modify Object

POST

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}/packet-capturing

packet-capturing attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}/packet-capturing

packet-capturing attributes

Delete Object

DELETE

/axapi/v3/ddos/dns-cache/{name}/sharded-domain-group/{name}/sharded-domain-list-policy/{name}/packet-capturing

packet-capturing attributes

packet-capturing attributes

root-zone-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

root-zone-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

capture-mode

Description 'regular': Capture packet anyway; 'capture-on-failure': Capture packet if last XFR was failed;

Type: string

Supported Values: regular, capture-on-failure

root-zone

Description Specify root zone to be captured

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

2.33.46 ddos dns-cache stats

Statistics for the object dns-cache

dns-cache Specification

Parameter	Value
Type	*Collection*
Collection Name	*dns-cache-list*
Collection URI	/axapi/v3/ddos/dns-cache/{name}
Element Name	dns-cache
Element URI	/axapi/v3/ddos/dns-cache/{name}/stats
Element Attributes	dns-cache_attributes
Partition Visibility	None
Schema	`dns-cache schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache/{name}

dns-cache attributes

Create List

POST

/axapi/v3/ddos/dns-cache/{name}

dns-cache attributes

Get Object

GET

/axapi/v3/ddos/dns-cache/{name}/stats

dns-cache attributes

Get List

GET

/axapi/v3/ddos/dns-cache/{name}

dns-cache-list

Modify Object

POST

/axapi/v3/ddos/dns-cache/{name}/stats

dns-cache attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache/{name}/stats

dns-cache attributes

Replace List

PUT

/axapi/v3/ddos/dns-cache/{name}

dns-cache-list

Delete Object

DELETE

/axapi/v3/ddos/dns-cache/{name}/stats

dns-cache attributes

dns-cache-list

dns-cache-list is **JSON List** of *dns-cache attributes*

```
dns-cache-list : [
        { dns-cache attributes },
        { dns-cache attributes },
        ...
    ]
```

dns-cache attributes

name

Description DNS Cache Instance Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

a-record

Description

Type: number

Format: counter

aaaa-record

Description

Type: number

Format: counter

alias-record

Description

Type: number

Format: counter

cdnskey-record

Description

Type: number

Format: counter

cds-record

Description

Type: number

Format: counter

cname-record

Description

Type: number

Format: counter

dnskey-record

Description

Type: number

Format: counter

ds-record

Description

Type: number

Format: counter

fqdn-a

Description

Type: number

Format: counter

fqdn-aaaa

Description

Type: number

Format: counter

fqdn-alias

Description

Type: number

Format: counter

fqdn-cdnskey

Description

Type: number

Format: counter

fqdn-cds

Description

Type: number

Format: counter

fqdn-cname

Description

Type: number

Format: counter

fqdn-delegation

Description

Type: number

Format: counter

fqdn-dnskey

Description

Type: number

Format: counter

fqdn-ds

Description

Type: number

Format: counter

fqdn-in-shard-filter

Description

Type: number

Format: counter

fqdn-mx

Description

Type: number

Format: counter

fqdn-ns

Description

Type: number

Format: counter

fqdn-nsec

Description

Type: number

Format: counter

fqdn-nsec3

Description

Type: number

Format: counter

fqdn-nsec3param

Description

Type: number

Format: counter

fqdn-other

Description

Type: number

Format: counter

fqdn-ptr

Description

Type: number

Format: counter

fqdn-rrsig

Description

Type: number

Format: counter

fqdn-soa

Description

Type: number

Format: counter

fqdn-srv

Description

Type: number

Format: counter

fqdn-ta

Description

Type: number

Format: counter

fqdn-txt

Description

Type: number

Format: counter

fqdn-wildcard

Description

Type: number

Format: counter

mx-record

Description

Type: number

Format: counter

ns-record

Description

Type: number

Format: counter

nsec-record

Description

Type: number

Format: counter

nsec3-record

Description

Type: number

Format: counter

nsec3param-record

Description

Type: number

Format: counter

other-record

Description

Type: number

Format: counter

ptr-record

Description

Type: number

Format: counter

resp-ext-size

Description

Type: number

Format: counter

rrsig-record

Description

Type: number

Format: counter

shard-size

Description

Type: number

Format: counter

soa-record

Description

Type: number

Format: counter

srv-record

Description

Type: number

Format: counter

ta-record

Description

Type: number

Format: counter

total-cached-fqdn

Description

Type: number

Format: counter

total-cached-records

Description

Type: number

Format: counter

txt-record

Description

Type: number

Format: counter

2.33.47 ddos dns-cache zone-transfer

DNS Cache Settings

zone-transfer Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	zone-transfer
Element URI	/axapi/v3/ddos/dns-cache/{name}/zone-transfer
Element Attributes	zone-transfer_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dns-cache/{name}/zone-transfer/oper
Schema	`zone-transfer schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache/{name}/zone-transfer

zone-transfer attributes

Get Object

GET

/axapi/v3/ddos/dns-cache/{name}/zone-transfer

zone-transfer attributes

Modify Object

POST

/axapi/v3/ddos/dns-cache/{name}/zone-transfer

zone-transfer attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache/{name}/zone-transfer

zone-transfer attributes

Delete Object

DELETE

/axapi/v3/ddos/dns-cache/{name}/zone-transfer

zone-transfer attributes

zone-transfer attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.48 ddos dns-cache zone-transfer oper

Operational Status for the object zone-transfer

zone-transfer Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	zone-transfer
Element URI	/axapi/v3/ddos/dns-cache/{name}/zone-transfer/oper
Element Attributes	zone-transfer_attributes
Partition Visibility	None
Schema	`zone-transfer schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-cache/{name}/zone-transfer/oper

zone-transfer attributes

Get Object

GET

/axapi/v3/ddos/dns-cache/{name}/zone-transfer/oper

zone-transfer attributes

Modify Object

POST

/axapi/v3/ddos/dns-cache/{name}/zone-transfer/oper

zone-transfer attributes

Replace Object

PUT

/axapi/v3/ddos/dns-cache/{name}/zone-transfer/oper

zone-transfer attributes

Delete Object

DELETE

/axapi/v3/ddos/dns-cache/{name}/zone-transfer/oper

zone-transfer attributes

zone-transfer attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

debug-mode

Description

Type: boolean

Supported Values: true, false, 1, 0

estimated-next-update

Description Estimated Next Update

Type: string

local-ip

Description Local IP

Type: string

remain-expiration-time

Description Remaining Seconds Before Expiring

Type: string

remote-ip

Description Remote IP

Type: string

sflow-source-id

Description Sflow Source ID

Type: string

statistics

Description

Type: boolean

Supported Values: true, false, 1, 0

status

Description

Type: string

Supported Values: ongoing, completed, scheduled

total-fqdn-in-table

Description

Type: string

zone

Description

Type: string

zone-name

Description Zone Name

Type: string

zone-transfer-history-list

Type: List

zone-transfer-statistics

Type: List

zone-transfer-status-list

Type: List

zt-statistics

Description

Type: boolean

Supported Values: true, false, 1, 0

zts-sflow-source-id

Description

Type: string

oper_zone-transfer-history-list

Specification	Value
Type	*list*
Block object keys	

cached-fqdn

Description Total Cached FQDN

Type: number

cached-fqdn-second-pass

Description Total Cached FQDN in the Second Pass

Type: number

dns-message-pending-processed

Description DNS message pending Processed

Type: number

dns-message-processed

Description DNS Message Processed

Type: number

records-processed

Description Records Processed

Type: number

serial-number

Description Serial Number

Type: string

tcp-connection-begin-time

Description TCP connection Begin Time

Type: string

tcp-connection-end-time

Description TCP Connection End Time

Type: string

total-failure

Description Total Failure

Type: string

total-node-in-table

Description Total FQDN Node in Cache Instance Table

Type: number

update-status

Description Update Status

Type: string

zone-transfer-begin-time

Description Zone Transfer Begin Time

Type: string

zone-transfer-end-time

Description Zone Transfer End Time

Type: string

zone-transfer-result

Description Zone Transfer Result

Type: string

oper_zone-transfer-status-list

Specification	Value
Type	*list*
Block object keys	

estimated-next-update

Description Estimated Next Update

Type: string

last-complete-serial

Description Last Complete Serial

Type: string

last-complete-update

Description Last Complete Update

Type: string

last-update

Description Last Update Status

Type: string

remain-expiration-time

Description Remaining Seconds Before Expiring

Type: string

sflow-source-id

Description Sflow Source ID

Type: string

zone-name

Description Zone Name

Type: string

oper_zone-transfer-statistics

Specification	Value
Type	*list*
Block object keys	

stats-count

Description

Type: number

stats-name

Description

Type: string

2.33.49 ddos dns-logging

DNS Logging template

dns-logging Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*dns-logging-list*
Collection URI	/axapi/v3/ddos/dns-logging
Element Name	dns-logging
Element URI	/axapi/v3/ddos/dns-logging/{name}
Element Attributes	dns-logging_attributes
Partition Visibility	shared
Schema	`dns-logging schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-logging

dns-logging attributes

```
POST /axapi/v3/ddos/dns-logging/
Payload:
{
```

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```
    "dns-logging": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/dns-logging

dns-logging attributes

Get Object

GET

/axapi/v3/ddos/dns-logging/{name}

dns-logging attributes

```
GET /axapi/v3/ddos/dns-logging/a
Reponse:
{
    "dns-logging": {
        "name": "a",
        "disable": 0,
        "uuid": "08d94046-085c-11f0-bc03-3dc8e3bd18dc",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/dns-logging/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/dns-logging

dns-logging-list

Modify Object

POST

/axapi/v3/ddos/dns-logging/{name}

dns-logging attributes

Replace Object

PUT

/axapi/v3/ddos/dns-logging/{name}

dns-logging attributes

```
PUT /axapi/v3/ddos/dns-logging/a
```

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```
Payload:
{
    "dns-logging": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/dns-logging

dns-logging-list

Delete Object

DELETE

/axapi/v3/ddos/dns-logging/{name}

dns-logging attributes

```
DELETE /axapi/v3/ddos/dns-logging/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

dns-logging-list

dns-logging-list is **JSON List** of *dns-logging attributes*

dns-logging-list : [

{ *dns-logging attributes* },

{ *dns-logging attributes* },

...

]

dns-logging attributes

disable

Description Disable DNS Logging template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-logging-protocol

Description 'both': Log DNS over tcp and udp; 'tcp': Log DNS over tcp; 'udp': Log DNS over udp;

Type: string

Supported Values: both, tcp, udp

dns-logging-request-section

Description 'all': Log DNS header and question section; 'header': Log DNS header information; 'question': Log DNS question section;

Type: string

Supported Values: all, header, question

dns-logging-type

Description 'query': DNS Query Logging;

Type: string

Supported Values: query

name

Description DNS Logging Template Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.50 ddos dns-tcp-port stats

Statistics for the object dns-tcp-port

dns-tcp-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*dns-tcp-port-list*
Collection URI	/axapi/v3/ddos/dns-tcp-port
Element Name	dns-tcp-port
Element URI	/axapi/v3/ddos/dns-tcp-port/stats
Element Attributes	dns-tcp-port_attributes
Partition Visibility	None
Schema	`dns-tcp-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-tcp-port

dns-tcp-port attributes

Create List

POST

/axapi/v3/ddos/dns-tcp-port

dns-tcp-port attributes

Get Object

GET

/axapi/v3/ddos/dns-tcp-port/stats

dns-tcp-port attributes

Get List

GET

/axapi/v3/ddos/dns-tcp-port

dns-tcp-port-list

Modify Object

POST

/axapi/v3/ddos/dns-tcp-port/stats

dns-tcp-port attributes

Replace Object

PUT

/axapi/v3/ddos/dns-tcp-port/stats

dns-tcp-port attributes

Replace List

PUT

/axapi/v3/ddos/dns-tcp-port

dns-tcp-port-list

Delete Object

DELETE

/axapi/v3/ddos/dns-tcp-port/stats

dns-tcp-port attributes

dns-tcp-port-list

dns-tcp-port-list is **JSON List** of *dns-tcp-port attributes*

dns-tcp-port-list : [

{ *dns-tcp-port attributes* },

{ *dns-tcp-port attributes* },

…

]

dns-tcp-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ack_auth_fail

Description ACK Retry Dropped

Type: number

Format: counter

ack_retry_blacklist

Description ACK Retry Timeout Blacklisted

Type: number

Format: counter

ack_retry_gap_drop

Description ACK Retry Retry-Gap Dropped

Type: number

Format: counter

ack_retry_init

Description ACK Retry Init

Type: number

Format: counter

ack_retry_pass

Description ACK Retry Passed

Type: number

Format: counter

ack_retry_reset

Description ACK Retry Timeout Reset

Type: number

Format: counter

ack_retry_rto_fail

Description ACK Retry RTO Dropped

Type: number

Format: counter

ack_retry_rto_pass

Description ACK Retry RTO Passed

Type: number

Format: counter

ack_retry_rto_progress

Description ACK Retry RTO Progress

Type: number

Format: counter

ack_retry_timeout

Description ACK Retry Timeout

Type: number

Format: counter

alias_forward_rate_exceed

Description ALIAS Forward Rate Exceed

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

conn_close

Description Connections Closed

Type: number

Format: counter

conn_close_half_open

Description Half Open Connections Closed

Type: number

Format: counter

conn_close_w_fin

Description FIN Connections Closed

Type: number

Format: counter

conn_close_w_idle

Description Idle Connections Closed

Type: number

Format: counter

conn_close_w_rst

Description RST Connections Closed

Type: number

Format: counter

conn_create_from_ack

Description Connections Created From ACK

Type: number

Format: counter

conn_create_from_syn

Description Connections Created From SYN

Type: number

Format: counter

conn_create_from_synack

Description Connections Created From SYNACK

Type: number

Format: counter

conn_ofo_rate_excd

Description TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

conn_prate_excd

Description TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

conn_rexmit_rate_excd

Description TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

conn_zwindow_rate_excd

Description TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

create_conn_non_syn_dropped

Description Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

dg_action_default

Description Domain Group Action Default

Type: number

Format: counter

dg_action_deny

Description Domain Group Action Deny

Type: number

Format: counter

dg_action_permit

Description Domain Group Action Permit

Type: number

Format: counter

dg_rate_exceed

Description Domain Group Domain Query Rate Exceeded

Type: number

Format: counter

dg_request_check_fail

Description Domain Group Request Check Fail

Type: number

Format: counter

dns_fqdn_label_len_exceed

Description FQDN Label Length Exceeded

Type: number

Format: counter

dns_fqdn_stage_2_rate_exceed

Description FQDN Rate Exceeded

Type: number

Format: counter

dns_malform

Description Malform Query

Type: number

Format: counter

dns_malform_drop

Description Malform Query Dropped

Type: number

Format: counter

dns_query_class_any

Description Query Class ANY

Type: number

Format: counter

dns_query_class_chaos

Description Query Class CHAOS

Type: number

Format: counter

dns_query_class_csnet

Description Query Class CSNET

Type: number

Format: counter

dns_query_class_hs

Description Query Class HESIOD

Type: number

Format: counter

dns_query_class_in

Description Query Class INTERNET

Type: number

Format: counter

dns_query_class_none

Description Query Class NONE

Type: number

Format: counter

dns_query_class_whitelist_miss

Description Query Class Whitelist Miss

Type: number

Format: counter

dnssec_wildcard_forward_rate_exceed

Description DNSSEC Wildcard Forward Rate Exceed

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action WL

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

force_tcp_auth_pass

Description Auth Force-TCP Passed

Type: number

Format: counter

fqdn_label_count_exceed

Description FQDN Label Count Exceeded

Type: number

Format: counter

fqdn_rate_by_label_count_check

Description FQDN Rate by Label Count Checked

Type: number

Format: counter

fqdn_rate_by_label_count_exceed

Description FQDN Rate by Label Count Exceeded

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

hybrid_auth_auth_no_match

Description SYN Auth Hybrid Auth No Match Drop

Type: number

Format: counter

hybrid_auth_auth_no_match_ack_rcv

Description SYN Auth Hybrid Auth No Match Drop: ACK Received

Type: number

Format: counter

hybrid_auth_auth_no_match_rst_rcv

Description SYN Auth Hybrid Auth No Match Drop: RST Received

Type: number

Format: counter

hybrid_auth_entry_aged_out

Description SYN Auth Hybrid Entry Aged Out

Type: number

Format: counter

hybrid_auth_filter_full

Description SYN Auth Hybrid Filter Full

Type: number

Format: counter

hybrid_auth_invalid_fail

Description SYN Auth Hybrid Invalid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_invalid_pass

Description SYN Auth Hybrid Invalid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_invalid_sa_sent

Description SYN Auth Hybrid Invalid SYNACK Sent

Type: number

Format: counter

hybrid_auth_lookup_fail

Description SYN Auth Hybrid Lookup Fail

Type: number

Format: counter

hybrid_auth_method_change

Description SYN Auth Hybrid Method Change

Type: number

Format: counter

hybrid_auth_unknown_fail

Description SYN Auth Hybrid Unknown Auth Fail

Type: number

Format: counter

hybrid_auth_unknown_pass

Description SYN Auth Hybrid Unknown Auth Pass

Type: number

Format: counter

hybrid_auth_valid_fail

Description SYN Auth Hybrid Valid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_valid_pass

Description SYN Auth Hybrid Valid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_valid_sa_sent

Description SYN Auth Hybrid Valid SYNACK Sent

Type: number

Format: counter

is_nxdomain

Description NXDOMAIN Response

Type: number

Format: counter

non_query_opcode_pass_through

Description Non Query Opcode Pass Through

Type: number

Format: counter

nxdomain_bl_drop

Description NXDOMAIN Response Blacklisted

Type: number

Format: counter

nxdomain_drop

Description NXDOMAIN Response Dropped

Type: number

Format: counter

nxdomain_rate_exceed

Description NXDOMAIN Response Rate Exceeded

Type: number

Format: counter

out_of_seq_excd

Description Out-Of-Seq Exceeded

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

policy_drop

Description Policy Dropped

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_syn_rate_exceed

Description TCP SYN Rate Exceeded

Type: number

Format: counter

port_synack_rate_exceed

Description TCP SYNACK Rate Exceeded

Type: number

Format: counter

prog_conn_exceed_bl

Description Connection: Violation Exceed Blacklisted

Type: number

Format: counter

prog_conn_exceed_drop

Description Connection: Violation Exceed Dropped

Type: number

Format: counter

prog_conn_exceed_reset

Description Connection: Violation Exceed Reset

Type: number

Format: counter

prog_conn_rcvd_exceed

Description Connection: Received Exceed

Type: number

Format: counter

prog_conn_rcvd_sent_ratio_exceed

Description Connection: Reveived to Sent Ratio Exceed

Type: number

Format: counter

prog_conn_samples

Description Sample Collected: Connection

Type: number

Format: counter

prog_conn_samples_processed

Description Sample Processed: Connnection

Type: number

Format: counter

prog_conn_sent_exceed

Description Connection: Sent Exceed

Type: number

Format: counter

prog_conn_time_exceed

Description Connection: Time Exceed

Type: number

Format: counter

prog_exceed_bl

Description Req-Resp: Violation Exceed Blacklisted

Type: number

Format: counter

prog_exceed_drop

Description Req-Resp: Violation Exceed Dropped

Type: number

Format: counter

prog_exceed_reset

Description Req-Resp: Violation Exceed Reset

Type: number

Format: counter

prog_first_req_time_exceed

Description Req-Resp: First Request Time Exceed

Type: number

Format: counter

prog_query_exceed

Description Req-Resp: Client Query Time Exceed

Type: number

Format: counter

prog_req_resp_time_exceed

Description Req-Resp: Request to Response Time Exceed

Type: number

Format: counter

prog_req_samples

Description Sample Collected: Req-Resp

Type: number

Format: counter

prog_req_samples_processed

Description Sample Processed: Req-Resp

Type: number

Format: counter

prog_request_len_exceed

Description Req-Resp: Request Length Exceed

Type: number

Format: counter

prog_resp_pkt_rate_exceed

Description Req-Resp: Response Packet Rate Exceed

Type: number

Format: counter

prog_resp_req_time_exceed

Description Req-Resp: Response to Request Time Exceed

Type: number

Format: counter

prog_response_len_exceed

Description Req-Resp: Response Length Exceed

Type: number

Format: counter

prog_think_exceed

Description Req-Resp: Server Think Time Exceed

Type: number

Format: counter

prog_win_exceed_bl

Description Time Window: Violation Exceed Blacklisted

Type: number

Format: counter

prog_win_exceed_drop

Description Time Window: Violation Exceed Dropped

Type: number

Format: counter

prog_win_exceed_reset

Description Time Window: Violation Exceed Reset

Type: number

Format: counter

prog_win_rcvd_exceed

Description Time Window: Received Exceed

Type: number

Format: counter

prog_win_rcvd_sent_ratio_exceed

Description Time Window: Received to Sent Exceed

Type: number

Format: counter

prog_win_samples

Description Sample Collected: Time Window

Type: number

Format: counter

prog_win_samples_processed

Description Sample Processed: Time Window

Type: number

Format: counter

prog_win_sent_exceed

Description Time Window: Sent Exceed

Type: number

Format: counter

query_forward_rate_exceed

Description Query Foward Rate Exceed

Type: number

Format: counter

query_type_a

Description Query Type A

Type: number

Format: counter

query_type_aaaa

Description Query Type AAAA

Type: number

Format: counter

query_type_any

Description Query Type ANY

Type: number

Format: counter

query_type_any_drop

Description Query Type ANY Dropped

Type: number

Format: counter

query_type_cname

Description Query Type CNAME

Type: number

Format: counter

query_type_mx

Description Query Type MX

Type: number

Format: counter

query_type_ns

Description Query Type NS

Type: number

Format: counter

query_type_opt

Description Query Type OPT

Type: number

Format: counter

query_type_soa

Description Query Type SOA

Type: number

Format: counter

query_type_srv

Description Query Type SRV

Type: number

Format: counter

rate_limit_type0

Description Dst Request Rate 1 Exceeded

Type: number

Format: counter

rate_limit_type1

Description Dst Request Rate 2 Exceeded

Type: number

Format: counter

rate_limit_type2

Description Dst Request Rate 3 Exceeded

Type: number

Format: counter

rate_limit_type3

Description Dst Request Rate 4 Exceeded

Type: number

Format: counter

rate_limit_type4

Description Dst Request Rate 5 Exceeded

Type: number

Format: counter

req_incomplete

Description TCP Request Incomplete

Type: number

Format: counter

req_retrans

Description Request Retransmit

Type: number

Format: counter

req_sent

Description DNS Requests Forwarded

Type: number

Format: counter

req_size_exceed

Description Request Size Exceeded

Type: number

Format: counter

retransmit_excd

Description Retransmit Exceeded

Type: number

Format: counter

rrsig_expire_drop

Description RRSIG Expire: Drop

Type: number

Format: counter

rrtype_drop

Description Record Type Dropped

Type: number

Format: counter

rst_cookie_fail

Description RST Cookie Failed

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

small_window_excd

Description Small-Window Exceeded

Type: number

Format: counter

small_window_rcv

Description Small-Window Receive

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

src_ack_auth_fail

Description Src ACK Retry Dropped

Type: number

Format: counter

src_ack_retry_blacklist

Description Src ACK Retry Timeout Blacklisted

Type: number

Format: counter

src_ack_retry_gap_drop

Description Src ACK Retry Retry-Gap Dropped

Type: number

Format: counter

src_ack_retry_init

Description Src ACK Retry Init

Type: number

Format: counter

src_ack_retry_reset

Description Src ACK Retry Timeout Reset

Type: number

Format: counter

src_ack_retry_rto_fail

Description Src ACK Retry RTO Dropped

Type: number

Format: counter

src_ack_retry_rto_pass

Description Src ACK Retry RTO Passed

Type: number

Format: counter

src_ack_retry_rto_progress

Description Src ACK Retry RTO Progress

Type: number

Format: counter

src_ack_retry_timeout

Description Src ACK Retry Timeout

Type: number

Format: counter

src_auth_drop

Description Src TCP Auth Dropped

Type: number

Format: counter

src_auth_drop_ack

Description Src TCP Auth Dropped: ACK

Type: number

Format: counter

src_auth_drop_ack_fail_auth

Description Src TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

src_auth_drop_ack_pass_auth

Description Src TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

src_auth_drop_ack_xmit

Description Src TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

src_auth_drop_rst

Description Src TCP Auth Dropped: RST

Type: number

Format: counter

src_auth_drop_rst_fail_auth

Description Src TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

src_auth_drop_rst_pass_auth

Description Src TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

src_auth_drop_rst_xmit

Description Src TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

src_auth_drop_syn

Description Src TCP Auth Dropped: SYN

Type: number

Format: counter

src_conn_ofo_rate_excd

Description Src TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_conn_rexmit_rate_excd

Description Src TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

src_conn_zwindow_rate_excd

Description Src TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

src_create_conn_non_syn_dropped

Description Src Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

src_dns_fqdn_label_len_exceed

Description Src FQDN Label Length Exceeded

Type: number

Format: counter

src_dns_malform

Description Src Malform Query

Type: number

Format: counter

src_dns_malform_drop

Description Src Malform Query Dropped

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_fqdn_label_count_exceed

Description Src FQDN Label Count Exceeded

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_out_of_seq_excd

Description Src Out-Of-Seq Exceeded

Type: number

Format: counter

src_policy_drop

Description Src Policy Dropped

Type: number

Format: counter

src_query_type_any_drop

Description Src Query Type ANY Dropped

Type: number

Format: counter

src_rate_limit_type0

Description Src Request Rate 1 Exceeded

Type: number

Format: counter

src_rate_limit_type1

Description Src Request Rate 2 Exceeded

Type: number

Format: counter

src_rate_limit_type2

Description Src Request Rate 3 Exceeded

Type: number

Format: counter

src_rate_limit_type3

Description Src Request Rate 4 Exceeded

Type: number

Format: counter

src_rate_limit_type4

Description Src Request Rate 5 Exceeded

Type: number

Format: counter

src_retransmit_excd

Description Src Retransmit Exceeded

Type: number

Format: counter

src_rst_cookie_fail

Description Src RST Cookie Failed

Type: number

Format: counter

src_small_window_excd

Description Src Small-Window Exceeded

Type: number

Format: counter

src_syn_auth_fail

Description Src SYN Auth Failed

Type: number

Format: counter

src_syn_cookie_fail

Description Src SYN Cookie Failed

Type: number

Format: counter

src_syn_cookie_sent

Description Src SYN Cookie Sent

Type: number

Format: counter

src_syn_rate_exceed

Description Src TCP SYN Rate Exceeded

Type: number

Format: counter

src_syn_retry_blacklist

Description Src SYN Retry Timeout Blacklisted

Type: number

Format: counter

src_syn_retry_failed

Description Src SYN Retry Dropped

Type: number

Format: counter

src_syn_retry_gap_drop

Description Src SYN Retry-Gap Dropped

Type: number

Format: counter

src_syn_retry_init

Description Src SYN Retry Init

Type: number

Format: counter

src_syn_retry_reset

Description Src SYN Retry Timeout Reset

Type: number

Format: counter

src_syn_retry_rto_fail

Description Src SYN Retry RTO Dropped

Type: number

Format: counter

src_syn_retry_rto_pass

Description Src SYN Retry RTO Passed

Type: number

Format: counter

src_syn_retry_rto_progress

Description Src SYN Retry RTO Progress

Type: number

Format: counter

src_syn_retry_timeout

Description Src SYN Retry Timeout

Type: number

Format: counter

src_tcp_auth_rst

Description Src TCP Auth Reset

Type: number

Format: counter

src_unauth_drop

Description Src TCP Unauth Dropped

Type: number

Format: counter

src_well_known_port

Description Src TCP SrcPort Wellknown

Type: number

Format: counter

src_zero_window_excd

Description Src Zero-Window Exceeded

Type: number

Format: counter

syn_auth_fail

Description SYN Auth Failed

Type: number

Format: counter

syn_auth_pass

Description SYN Auth Passed

Type: number

Format: counter

syn_auth_rst_ack_drop

Description SYN Auth RST-ACK Dropped

Type: number

Format: counter

syn_cookie_fail

Description SYN Cookie Failed

Type: number

Format: counter

syn_cookie_sent

Description SYN Cookie Sent

Type: number

Format: counter

syn_drop

Description SYN Dropped

Type: number

Format: counter

syn_retry_blacklist

Description SYN Retry Timeout Blacklisted

Type: number

Format: counter

syn_retry_failed

Description SYN Retry Dropped

Type: number

Format: counter

syn_retry_gap_drop

Description SYN Retry-Gap Dropped

Type: number

Format: counter

syn_retry_init

Description SYN Retry Init

Type: number

Format: counter

syn_retry_pass

Description SYN Retry Passed

Type: number

Format: counter

syn_retry_reset

Description SYN Retry Timeout Reset

Type: number

Format: counter

syn_retry_rto_fail

Description SYN Retry RTO Dropped

Type: number

Format: counter

syn_retry_rto_pass

Description SYN Retry RTO Passed

Type: number

Format: counter

syn_retry_rto_progress

Description SYN Retry RTO Progress

Type: number

Format: counter

syn_retry_timeout

Description SYN Retry Timeout

Type: number

Format: counter

syn_tfo_rcv

Description SYN TFO Received

Type: number

Format: counter

synack_multiple_attempts_per_ip_detected

Description SYNACK Multiple Attempts Per IP Detected

Type: number

Format: counter

synack_reset_sent

Description SYNACK Reset Sent

Type: number

Format: counter

tcp_ack_data_drop

Description TCP ACK with Data Dropped

Type: number

Format: counter

tcp_ack_data_fwd

Description TCP ACK with Data Forward

Type: number

Format: counter

tcp_ack_data_rcvd

Description TCP ACK with Data Received

Type: number

Format: counter

tcp_ack_drop

Description TCP ACK Dropped

Type: number

Format: counter

tcp_ack_fwd

Description TCP ACK Forward

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_auth_drop

Description TCP Auth Dropped

Type: number

Format: counter

tcp_auth_drop_ack

Description TCP Auth Dropped: ACK

Type: number

Format: counter

tcp_auth_drop_ack_fail_auth

Description TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

tcp_auth_drop_ack_pass_auth

Description TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

tcp_auth_drop_ack_xmit

Description TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

tcp_auth_drop_rst

Description TCP Auth Dropped: RST

Type: number

Format: counter

tcp_auth_drop_rst_fail_auth

Description TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

tcp_auth_drop_rst_pass_auth

Description TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

tcp_auth_drop_rst_xmit

Description TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

tcp_auth_drop_syn

Description TCP Auth Dropped: SYN

Type: number

Format: counter

tcp_auth_resp

Description TCP Auth Responded

Type: number

Format: counter

tcp_auth_rst

Description TCP Auth Reset

Type: number

Format: counter

tcp_cwr_drop

Description TCP CWR Dropped

Type: number

Format: counter

tcp_cwr_fwd

Description TCP CWR Forward

Type: number

Format: counter

tcp_cwr_rcvd

Description TCP CWR Received

Type: number

Format: counter

tcp_ece_drop

Description TCP ECE Dropped

Type: number

Format: counter

tcp_ece_fwd

Description TCP ECE Forward

Type: number

Format: counter

tcp_ece_rcvd

Description TCP ECE Received

Type: number

Format: counter

tcp_empty_ack_drop

Description TCP Empty ACK Dropped

Type: number

Format: counter

tcp_empty_ack_fwd

Description TCP Empty ACK Forward

Type: number

Format: counter

tcp_empty_ack_rcvd

Description TCP Empty ACK Received

Type: number

Format: counter

tcp_fin_ack_drop

Description TCP FIN ACK Dropped

Type: number

Format: counter

tcp_fin_ack_fwd

Description TCP FIN ACK Forward

Type: number

Format: counter

tcp_fin_ack_rcvd

Description TCP FIN ACK Received

Type: number

Format: counter

tcp_fin_drop

Description TCP FIN Dropped

Type: number

Format: counter

tcp_fin_fwd

Description TCP FIN Forward

Type: number

Format: counter

tcp_fin_psh_ack_drop

Description TCP FIN PSH ACK Drop

Type: number

Format: counter

tcp_fin_psh_ack_fwd

Description TCP FIN PSH ACK Forward

Type: number

Format: counter

tcp_fin_psh_ack_rcvd

Description TCP FIN PSH ACK Received

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_psh_ack_drop

Description TCP PSH ACK Dropped

Type: number

Format: counter

tcp_psh_ack_fwd

Description TCP PSH ACK Forward

Type: number

Format: counter

tcp_psh_ack_rcvd

Description TCP PSH ACK Received

Type: number

Format: counter

tcp_psh_drop

Description TCP PSH Dropped

Type: number

Format: counter

tcp_psh_fwd

Description TCP PSH Forward

Type: number

Format: counter

tcp_psh_rcvd

Description TCP PSH Received

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP SYN Retransmit Exceeded Blacklist

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP SYN Retransmit Exceeded Drop

Type: number

Format: counter

tcp_rst_ack_drop

Description TCP RST ACK Dropped

Type: number

Format: counter

tcp_rst_ack_fwd

Description TCP RST ACK Forward

Type: number

Format: counter

tcp_rst_ack_rcvd

Description TCP RST ACK Received

Type: number

Format: counter

tcp_rst_drop

Description TCP RST Dropped

Type: number

Format: counter

tcp_rst_fwd

Description TCP RST Forward

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_syn_ack_drop

Description TCP SYN ACK Dropped

Type: number

Format: counter

tcp_syn_ack_fwd

Description TCP SYN ACK Forward

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_fwd

Description SYN Forward

Type: number

Format: counter

tcp_syn_rcvd

Description TCP Inbound SYN Received

Type: number

Format: counter

tcp_urg_drop

Description TCP URG Dropped

Type: number

Format: counter

tcp_urg_fwd

Description TCP URG Forward

Type: number

Format: counter

tcp_urg_rcvd

Description TCP URG Received

Type: number

Format: counter

unauth_drop

Description TCP Unauth Dropped

Type: number

Format: counter

wellknown_sport_drop

Description TCP SrcPort Wellknown

Type: number

Format: counter

zero_window_excd

Description Zero-Window Exceeded

Type: number

Format: counter

2.33.51 ddos dns-tcp-zone-port stats

Statistics for the object dns-tcp-zone-port

dns-tcp-zone-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*dns-tcp-zone-port-list*
Collection URI	/axapi/v3/ddos/dns-tcp-zone-port
Element Name	dns-tcp-zone-port
Element URI	/axapi/v3/ddos/dns-tcp-zone-port/stats
Element Attributes	dns-tcp-zone-port_attributes
Partition Visibility	None
Schema	`dns-tcp-zone-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-tcp-zone-port

dns-tcp-zone-port attributes

Create List

POST

/axapi/v3/ddos/dns-tcp-zone-port

dns-tcp-zone-port attributes

Get Object

GET

/axapi/v3/ddos/dns-tcp-zone-port/stats

dns-tcp-zone-port attributes

Get List

GET

/axapi/v3/ddos/dns-tcp-zone-port

dns-tcp-zone-port-list

Modify Object

POST

/axapi/v3/ddos/dns-tcp-zone-port/stats

dns-tcp-zone-port attributes

Replace Object

PUT

/axapi/v3/ddos/dns-tcp-zone-port/stats

dns-tcp-zone-port attributes

Replace List

PUT

/axapi/v3/ddos/dns-tcp-zone-port

dns-tcp-zone-port-list

Delete Object

DELETE

/axapi/v3/ddos/dns-tcp-zone-port/stats

dns-tcp-zone-port attributes

dns-tcp-zone-port-list

dns-tcp-zone-port-list is **JSON List** of *dns-tcp-zone-port attributes*

```
dns-tcp-zone-port-list : [
        { dns-tcp-zone-port attributes },
        { dns-tcp-zone-port attributes },
        ...
    ]
```

dns-tcp-zone-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ack_auth_fail

Description ACK Retry Dropped

Type: number

Format: counter

ack_retry_blacklist

Description ACK Retry Timeout Blacklisted

Type: number

Format: counter

ack_retry_gap_drop

Description ACK Retry Retry-Gap Dropped

Type: number

Format: counter

ack_retry_init

Description ACK Retry Init

Type: number

Format: counter

ack_retry_pass

Description ACK Retry Passed

Type: number

Format: counter

ack_retry_reset

Description ACK Retry Timeout Reset

Type: number

Format: counter

ack_retry_rto_fail

Description ACK Retry RTO Dropped

Type: number

Format: counter

ack_retry_rto_pass

Description ACK Retry RTO Passed

Type: number

Format: counter

ack_retry_rto_progress

Description ACK Retry RTO Progress

Type: number

Format: counter

ack_retry_timeout

Description ACK Retry Timeout

Type: number

Format: counter

alias_forward_rate_exceed

Description ALIAS Forward Rate Exceed

Type: number

Format: counter

all_src_session_reset

Description Session Reset for All Src Upon Level Escalation

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

clear_session_upon_deescalation

Description Clear Session Upon De-escalation to Level 0

Type: number

Format: counter

conn_close

Description Connections Closed

Type: number

Format: counter

conn_close_half_open

Description Half Open Connections Closed

Type: number

Format: counter

conn_close_w_fin

Description FIN Connections Closed

Type: number

Format: counter

conn_close_w_idle

Description Idle Connections Closed

Type: number

Format: counter

conn_close_w_rst

Description RST Connections Closed

Type: number

Format: counter

conn_create_from_ack

Description Connections Created From ACK

Type: number

Format: counter

conn_create_from_syn

Description Connections Created From SYN

Type: number

Format: counter

conn_create_from_synack

Description Connections Created From SYNACK

Type: number

Format: counter

conn_ofo_rate_excd

Description TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

conn_prate_excd

Description TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

conn_rexmit_rate_excd

Description TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

conn_zwindow_rate_excd

Description TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

create_conn_non_syn_dropped

Description Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

current_es_level

Description Current Escalation Level

Type: number

Format: counter

dg_action_default

Description Domain Group Action Default

Type: number

Format: counter

dg_action_deny

Description Domain Group Action Deny

Type: number

Format: counter

dg_action_permit

Description Domain Group Action Permit

Type: number

Format: counter

dg_rate_exceed

Description Domain Group Domain Query Rate Exceeded

Type: number

Format: counter

dg_request_check_fail

Description Domain Group Request Check Fail

Type: number

Format: counter

dns_malform

Description Malform Query

Type: number

Format: counter

dns_query_class_any

Description Query Class ANY

Type: number

Format: counter

dns_query_class_chaos

Description Query Class CHAOS

Type: number

Format: counter

dns_query_class_csnet

Description Query Class CSNET

Type: number

Format: counter

dns_query_class_hs

Description Query Class HESIOD

Type: number

Format: counter

dns_query_class_in

Description Query Class INTERNET

Type: number

Format: counter

dns_query_class_none

Description Query Class NONE

Type: number

Format: counter

dns_query_class_whitelist_miss

Description Query Class Whitelist Miss

Type: number

Format: counter

dnssec_wildcard_forward_rate_exceed

Description DNSSEC Wildcard Forward Rate Exceed

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

dst_hw_drop_inserted

Description Dst Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_removed

Description Dst Hardware Drop Rules Removed

Type: number

Format: counter

dst_tcp_conn_half_open_timeout

Description Half Open Connections Timeout

Type: number

Format: counter

dst_tcp_conn_half_open_timeout_rst_sent

Description Half Open Connections Timeout RST Sent

Type: number

Format: counter

dst_tcp_sess_aged_rst_sent

Description Sessions Aged Out RST Sent

Type: number

Format: counter

dynamic_count_warn

Description dynamic-entry-count warning send

Type: number

Format: counter

ew_inbound_port_byte_drop

Description East-West Inbound Bytes Dropped

Type: number

Format: counter

ew_inbound_port_byte_rcv

Description East-West Inbound Bytes Recevied

Type: number

Format: counter

ew_inbound_port_byte_sent

Description East-West Inbound Bytes Forwarded

Type: number

Format: counter

ew_inbound_port_drop

Description East-West Inbound Packets Dropped

Type: number

Format: counter

ew_inbound_port_rcv

Description East-West Inbound Packets Received

Type: number

Format: counter

ew_inbound_port_sent

Description East-West Inbound Packets Forwarded

Type: number

Format: counter

ew_outbound_port_byte_drop

Description East-West Outbound Bytes Forwarded

Type: number

Format: counter

ew_outbound_port_byte_rcv

Description East-West Outbound Bytes Recevied

Type: number

Format: counter

ew_outbound_port_byte_sent

Description East-West Outbound Bytes Dropped

Type: number

Format: counter

ew_outbound_port_drop

Description East-West Outbound Packets Dropped

Type: number

Format: counter

ew_outbound_port_rcv

Description East-West Outbound Packets Received

Type: number

Format: counter

ew_outbound_port_sent

Description East-West Outbound Packets Forwarded

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action WL

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

force_tcp_auth_pass

Description Auth Force-TCP Passed

Type: number

Format: counter

fqdn_label_count_exceed

Description FQDN Label Count Exceeded

Type: number

Format: counter

fqdn_label_len_exceed

Description FQDN Label Length Exceeded

Type: number

Format: counter

fqdn_rate_by_label_count_check

Description FQDN Rate by Label Count Checked

Type: number

Format: counter

fqdn_rate_by_label_count_exceed

Description FQDN Rate by Label Count Exceeded

Type: number

Format: counter

fqdn_stage_2_rate_exceed

Description FQDN Rate Exceeded

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

hybrid_auth_auth_no_match

Description SYN Auth Hybrid Auth No Match Drop

Type: number

Format: counter

hybrid_auth_auth_no_match_ack_rcv

Description SYN Auth Hybrid Auth No Match Drop: ACK Received

Type: number

Format: counter

hybrid_auth_auth_no_match_rst_rcv

Description SYN Auth Hybrid Auth No Match Drop: RST Received

Type: number

Format: counter

hybrid_auth_entry_aged_out

Description SYN Auth Hybrid Entry Aged Out

Type: number

Format: counter

hybrid_auth_filter_full

Description SYN Auth Hybrid Filter Full

Type: number

Format: counter

hybrid_auth_invalid_fail

Description SYN Auth Hybrid Invalid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_invalid_pass

Description SYN Auth Hybrid Invalid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_invalid_sa_sent

Description SYN Auth Hybrid Invalid SYNACK Sent

Type: number

Format: counter

hybrid_auth_lookup_fail

Description SYN Auth Hybrid Lookup Fail

Type: number

Format: counter

hybrid_auth_method_change

Description SYN Auth Hybrid Method Change

Type: number

Format: counter

hybrid_auth_unknown_fail

Description SYN Auth Hybrid Unknown Auth Fail

Type: number

Format: counter

hybrid_auth_unknown_pass

Description SYN Auth Hybrid Unknown Auth Pass

Type: number

Format: counter

hybrid_auth_valid_fail

Description SYN Auth Hybrid Valid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_valid_pass

Description SYN Auth Hybrid Valid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_valid_sa_sent

Description SYN Auth Hybrid Valid SYNACK Sent

Type: number

Format: counter

ip_filtering_bl

Description IP Filtering Policy: Blacklisted

Type: number

Format: counter

ip_filtering_drop

Description IP Filtering Policy: Dropped

Type: number

Format: counter

is_nxdomain

Description NXDOMAIN Response

Type: number

Format: counter

malform_drop

Description Malform Query Dropped

Type: number

Format: counter

no_policy_class_list_match

Description No Policy Class-list Match

Type: number

Format: counter

no_route_drop

Description No Route Dropped

Type: number

Format: counter

non_query_opcode_pass_through

Description Non Query Opcode Pass Through

Type: number

Format: counter

nxdomain_bl_drop

Description NXDOMAIN Response Blacklisted

Type: number

Format: counter

nxdomain_drop

Description NXDOMAIN Response Dropped

Type: number

Format: counter

nxdomain_rate_exceed

Description NXDOMAIN Response Rate Exceeded

Type: number

Format: counter

out_of_seq_excd

Description Out-Of-Seq Exceeded

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

policy_drop

Description Policy Dropped

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_src_escalation

Description Src Escalation

Type: number

Format: counter

port_syn_rate_exceed

Description TCP SYN Rate Exceeded

Type: number

Format: counter

port_synack_rate_exceed

Description TCP SYNACK Rate Exceeded

Type: number

Format: counter

prog_conn_exceed_bl

Description Connection: Violation Exceed Blacklisted

Type: number

Format: counter

prog_conn_exceed_drop

Description Connection: Violation Exceed Dropped

Type: number

Format: counter

prog_conn_exceed_reset

Description Connection: Violation Exceed Reset

Type: number

Format: counter

prog_conn_rcvd_exceed

Description Connection: Received Exceed

Type: number

Format: counter

prog_conn_rcvd_sent_ratio_exceed

Description Connection: Reveived to Sent Ratio Exceed

Type: number

Format: counter

prog_conn_samples

Description Sample Collected: Connection

Type: number

Format: counter

prog_conn_samples_processed

Description Sample Processed: Connnection

Type: number

Format: counter

prog_conn_sent_exceed

Description Connection: Sent Exceed

Type: number

Format: counter

prog_conn_time_exceed

Description Connection: Time Exceed

Type: number

Format: counter

prog_exceed_bl

Description Req-Resp: Violation Exceed Blacklisted

Type: number

Format: counter

prog_exceed_drop

Description Req-Resp: Violation Exceed Dropped

Type: number

Format: counter

prog_exceed_reset

Description Req-Resp: Violation Exceed Reset

Type: number

Format: counter

prog_first_req_time_exceed

Description Req-Resp: First Request Time Exceed

Type: number

Format: counter

prog_query_exceed

Description Req-Resp: Client Query Time Exceed

Type: number

Format: counter

prog_req_resp_time_exceed

Description Req-Resp: Request to Response Time Exceed

Type: number

Format: counter

prog_req_samples

Description Sample Collected: Req-Resp

Type: number

Format: counter

prog_req_samples_processed

Description Sample Processed: Req-Resp

Type: number

Format: counter

prog_request_len_exceed

Description Req-Resp: Request Length Exceed

Type: number

Format: counter

prog_resp_pkt_rate_exceed

Description Req-Resp: Response Packet Rate Exceed

Type: number

Format: counter

prog_resp_req_time_exceed

Description Req-Resp: Response to Request Time Exceed

Type: number

Format: counter

prog_response_len_exceed

Description Req-Resp: Response Length Exceed

Type: number

Format: counter

prog_think_exceed

Description Req-Resp: Server Think Time Exceed

Type: number

Format: counter

prog_win_exceed_bl

Description Time Window: Violation Exceed Blacklisted

Type: number

Format: counter

prog_win_exceed_drop

Description Time Window: Violation Exceed Dropped

Type: number

Format: counter

prog_win_exceed_reset

Description Time Window: Violation Exceed Reset

Type: number

Format: counter

prog_win_rcvd_exceed

Description Time Window: Received Exceed

Type: number

Format: counter

prog_win_rcvd_sent_ratio_exceed

Description Time Window: Received to Sent Exceed

Type: number

Format: counter

prog_win_samples

Description Sample Collected: Time Window

Type: number

Format: counter

prog_win_samples_processed

Description Sample Processed: Time Window

Type: number

Format: counter

prog_win_sent_exceed

Description Time Window: Sent Exceed

Type: number

Format: counter

query_forward_rate_exceed

Description Query Foward Rate Exceed

Type: number

Format: counter

query_type_a

Description Query Type A

Type: number

Format: counter

query_type_aaaa

Description Query Type AAAA

Type: number

Format: counter

query_type_any

Description Query Type ANY

Type: number

Format: counter

query_type_any_drop

Description Query Type ANY Dropped

Type: number

Format: counter

query_type_cname

Description Query Type CNAME

Type: number

Format: counter

query_type_mx

Description Query Type MX

Type: number

Format: counter

query_type_ns

Description Query Type NS

Type: number

Format: counter

query_type_opt

Description Query Type OPT

Type: number

Format: counter

query_type_soa

Description Query Type SOA

Type: number

Format: counter

query_type_srv

Description Query Type SRV

Type: number

Format: counter

rate_limit_type0

Description Dst Request Rate 1 Exceeded

Type: number

Format: counter

rate_limit_type1

Description Dst Request Rate 2 Exceeded

Type: number

Format: counter

rate_limit_type2

Description Dst Request Rate 3 Exceeded

Type: number

Format: counter

rate_limit_type3

Description Dst Request Rate 4 Exceeded

Type: number

Format: counter

rate_limit_type4

Description Dst Request Rate 5 Exceeded

Type: number

Format: counter

req_retrans

Description Request Retransmit

Type: number

Format: counter

req_sent

Description DNS Requests Forwarded

Type: number

Format: counter

req_size_exceed

Description Request Size Exceeded

Type: number

Format: counter

retransmit_excd

Description Retransmit Exceeded

Type: number

Format: counter

rrsig_expire_drop

Description RRSIG Expire: Drop

Type: number

Format: counter

rrtype_drop

Description Record Type Dropped

Type: number

Format: counter

rst_cookie_fail

Description RST Cookie Failed

Type: number

Format: counter

same_sport_dport_drop

Description Same Source and Destination Port Drop

Type: number

Format: counter

secondary_port_conn_limm_exceed

Description Per Addr-Port Conn Limit Exceeded

Type: number

Format: counter

secondary_port_conn_rate_exceed

Description Per Addr-Port Conn Rate Exceeded

Type: number

Format: counter

secondary_port_hit

Description Per Addr-Port Hit

Type: number

Format: counter

secondary_port_kbit_rate_exceed

Description Per Addr-Port KiBit Rate Exceeded

Type: number

Format: counter

secondary_port_kbit_rate_exceed_pkt

Description Per Addr-Port KiBit Rate Exceeded Count

Type: number

Format: counter

secondary_port_pkt_rate_exceed

Description Per Addr-Port Packet Rate Exceeded

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

small_window_excd

Description Small-Window Exceeded

Type: number

Format: counter

small_window_rcv

Description Small-Window Receive

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

src_ack_auth_fail

Description Src ACK Retry Dropped

Type: number

Format: counter

src_ack_retry_blacklist

Description Src ACK Retry Timeout Blacklisted

Type: number

Format: counter

src_ack_retry_gap_drop

Description Src ACK Retry Retry-Gap Dropped

Type: number

Format: counter

src_ack_retry_init

Description Src ACK Retry Init

Type: number

Format: counter

src_ack_retry_reset

Description Src ACK Retry Timeout Reset

Type: number

Format: counter

src_ack_retry_rto_fail

Description Src ACK Retry RTO Dropped

Type: number

Format: counter

src_ack_retry_rto_pass

Description Src ACK Retry RTO Passed

Type: number

Format: counter

src_ack_retry_rto_progress

Description Src ACK Retry RTO Progress

Type: number

Format: counter

src_ack_retry_timeout

Description Src ACK Retry Timeout

Type: number

Format: counter

src_auth_drop

Description Src TCP Auth Dropped

Type: number

Format: counter

src_auth_drop_ack

Description Src TCP Auth Dropped: ACK

Type: number

Format: counter

src_auth_drop_ack_fail_auth

Description Src TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

src_auth_drop_ack_pass_auth

Description Src TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

src_auth_drop_ack_xmit

Description Src TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

src_auth_drop_rst

Description Src TCP Auth Dropped: RST

Type: number

Format: counter

src_auth_drop_rst_fail_auth

Description Src TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

src_auth_drop_rst_pass_auth

Description Src TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

src_auth_drop_rst_xmit

Description Src TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

src_auth_drop_syn

Description Src TCP Auth Dropped: SYN

Type: number

Format: counter

src_conn_ofo_rate_excd

Description Src TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_conn_rexmit_rate_excd

Description Src TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

src_conn_zwindow_rate_excd

Description Src TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

src_create_conn_non_syn_dropped

Description Src Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

src_dns_fqdn_label_len_exceed

Description Src FQDN Label Length Exceeded

Type: number

Format: counter

src_dns_malform

Description Src Malform Query

Type: number

Format: counter

src_dns_malform_drop

Description Src Malform Query Dropped

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_fqdn_label_count_exceed

Description Src FQDN Label Count Exceeded

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_hw_drop_inserted

Description Src Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_removed

Description Src Hardware Drop Rules Removed

Type: number

Format: counter

src_learn_overflow

Description Source Dynamic Entry Overflow

Type: number

Format: counter

src_out_of_seq_excd

Description Src Out-Of-Seq Exceeded

Type: number

Format: counter

src_policy_drop

Description Src Policy Dropped

Type: number

Format: counter

src_query_type_any_drop

Description Src Query Type ANY Dropped

Type: number

Format: counter

src_rate_limit_type0

Description Src Request Rate 1 Exceeded

Type: number

Format: counter

src_rate_limit_type1

Description Src Request Rate 2 Exceeded

Type: number

Format: counter

src_rate_limit_type2

Description Src Request Rate 3 Exceeded

Type: number

Format: counter

src_rate_limit_type3

Description Src Request Rate 4 Exceeded

Type: number

Format: counter

src_rate_limit_type4

Description Src Request Rate 5 Exceeded

Type: number

Format: counter

src_retransmit_excd

Description Src Retransmit Exceeded

Type: number

Format: counter

src_rst_cookie_fail

Description Src RST Cookie Failed

Type: number

Format: counter

src_small_window_excd

Description Src Small-Window Exceeded

Type: number

Format: counter

src_syn_auth_fail

Description Src SYN Auth Failed

Type: number

Format: counter

src_syn_cookie_fail

Description Src SYN Cookie Failed

Type: number

Format: counter

src_syn_cookie_sent

Description Src SYN Cookie Sent

Type: number

Format: counter

src_syn_rate_exceed

Description Src TCP SYN Rate Exceeded

Type: number

Format: counter

src_syn_retry_blacklist

Description Src SYN Retry Timeout Blacklisted

Type: number

Format: counter

src_syn_retry_failed

Description Src SYN Retry Dropped

Type: number

Format: counter

src_syn_retry_gap_drop

Description Src SYN Retry-Gap Dropped

Type: number

Format: counter

src_syn_retry_init

Description Src SYN Retry Init

Type: number

Format: counter

src_syn_retry_reset

Description Src SYN Retry Timeout Reset

Type: number

Format: counter

src_syn_retry_rto_fail

Description Src SYN Retry RTO Dropped

Type: number

Format: counter

src_syn_retry_rto_pass

Description Src SYN Retry RTO Passed

Type: number

Format: counter

src_syn_retry_rto_progress

Description Src SYN Retry RTO Progress

Type: number

Format: counter

src_syn_retry_timeout

Description Src SYN Retry Timeout

Type: number

Format: counter

src_tcp_auth_rst

Description Src TCP Auth Reset

Type: number

Format: counter

src_unauth_drop

Description Src TCP Unauth Dropped

Type: number

Format: counter

src_well_known_port

Description Src TCP SrcPort Wellknown

Type: number

Format: counter

src_zero_window_excd

Description Src Zero-Window Exceeded

Type: number

Format: counter

src_zone_service_entry_aged

Description SrcZoneService Entry Aged

Type: number

Format: counter

src_zone_service_entry_hit

Description SrcZoneService Entry Hit

Type: number

Format: counter

src_zone_service_entry_learned

Description SrcZoneService Entry Learned

Type: number

Format: counter

syn_auth_fail

Description SYN Auth Failed

Type: number

Format: counter

syn_auth_pass

Description SYN Auth Passed

Type: number

Format: counter

syn_auth_rst_ack_drop

Description SYN Auth RST-ACK Dropped

Type: number

Format: counter

syn_cookie_fail

Description SYN Cookie Failed

Type: number

Format: counter

syn_cookie_sent

Description SYN Cookie Sent

Type: number

Format: counter

syn_drop

Description SYN Dropped

Type: number

Format: counter

syn_retry_blacklist

Description SYN Retry Timeout Blacklisted

Type: number

Format: counter

syn_retry_failed

Description SYN Retry Dropped

Type: number

Format: counter

syn_retry_gap_drop

Description SYN Retry-Gap Dropped

Type: number

Format: counter

syn_retry_init

Description SYN Retry Init

Type: number

Format: counter

syn_retry_pass

Description SYN Retry Passed

Type: number

Format: counter

syn_retry_reset

Description SYN Retry Timeout Reset

Type: number

Format: counter

syn_retry_rto_fail

Description SYN Retry RTO Dropped

Type: number

Format: counter

syn_retry_rto_pass

Description SYN Retry RTO Passed

Type: number

Format: counter

syn_retry_rto_progress

Description SYN Retry RTO Progress

Type: number

Format: counter

syn_retry_timeout

Description SYN Retry Timeout

Type: number

Format: counter

syn_tfo_rcv

Description SYN TFO Received

Type: number

Format: counter

synack_multiple_attempts_per_ip_detected

Description SYNACK Multiple Attempts Per IP Detected

Type: number

Format: counter

synack_reset_sent

Description SYNACK Reset Sent

Type: number

Format: counter

tcp_ack_data_drop

Description TCP ACK with Data Dropped

Type: number

Format: counter

tcp_ack_data_fwd

Description TCP ACK with Data Forward

Type: number

Format: counter

tcp_ack_data_rcvd

Description TCP ACK with Data Received

Type: number

Format: counter

tcp_ack_drop

Description TCP ACK Dropped

Type: number

Format: counter

tcp_ack_fwd

Description TCP ACK Forward

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_auth_drop

Description TCP Auth Dropped

Type: number

Format: counter

tcp_auth_drop_ack

Description TCP Auth Dropped: ACK

Type: number

Format: counter

tcp_auth_drop_ack_fail_auth

Description TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

tcp_auth_drop_ack_pass_auth

Description TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

tcp_auth_drop_ack_xmit

Description TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

tcp_auth_drop_rst

Description TCP Auth Dropped: RST

Type: number

Format: counter

tcp_auth_drop_rst_fail_auth

Description TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

tcp_auth_drop_rst_pass_auth

Description TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

tcp_auth_drop_rst_xmit

Description TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

tcp_auth_drop_syn

Description TCP Auth Dropped: SYN

Type: number

Format: counter

tcp_auth_resp

Description TCP Auth Responded

Type: number

Format: counter

tcp_auth_rst

Description TCP Auth Reset

Type: number

Format: counter

tcp_cwr_drop

Description TCP CWR Dropped

Type: number

Format: counter

tcp_cwr_fwd

Description TCP CWR Forward

Type: number

Format: counter

tcp_cwr_rcvd

Description TCP CWR Received

Type: number

Format: counter

tcp_ece_drop

Description TCP ECE Dropped

Type: number

Format: counter

tcp_ece_fwd

Description TCP ECE Forward

Type: number

Format: counter

tcp_ece_rcvd

Description TCP ECE Received

Type: number

Format: counter

tcp_empty_ack_drop

Description TCP Empty ACK Dropped

Type: number

Format: counter

tcp_empty_ack_fwd

Description TCP Empty ACK Forward

Type: number

Format: counter

tcp_empty_ack_rcvd

Description TCP Empty ACK Received

Type: number

Format: counter

tcp_fin_ack_drop

Description TCP FIN ACK Dropped

Type: number

Format: counter

tcp_fin_ack_fwd

Description TCP FIN ACK Forward

Type: number

Format: counter

tcp_fin_ack_rcvd

Description TCP FIN ACK Received

Type: number

Format: counter

tcp_fin_drop

Description TCP FIN Dropped

Type: number

Format: counter

tcp_fin_fwd

Description TCP FIN Forward

Type: number

Format: counter

tcp_fin_psh_ack_drop

Description TCP FIN PSH ACK Drop

Type: number

Format: counter

tcp_fin_psh_ack_fwd

Description TCP FIN PSH ACK Forward

Type: number

Format: counter

tcp_fin_psh_ack_rcvd

Description TCP FIN PSH ACK Received

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_psh_ack_drop

Description TCP PSH ACK Dropped

Type: number

Format: counter

tcp_psh_ack_fwd

Description TCP PSH ACK Forward

Type: number

Format: counter

tcp_psh_ack_rcvd

Description TCP PSH ACK Received

Type: number

Format: counter

tcp_psh_drop

Description TCP PSH Dropped

Type: number

Format: counter

tcp_psh_fwd

Description TCP PSH Forward

Type: number

Format: counter

tcp_psh_rcvd

Description TCP PSH Received

Type: number

Format: counter

tcp_req_incomplete

Description TCP Request Incomplete

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP SYN Retransmit Exceeded Blacklist

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP SYN Retransmit Exceeded Drop

Type: number

Format: counter

tcp_rst_ack_drop

Description TCP RST ACK Dropped

Type: number

Format: counter

tcp_rst_ack_fwd

Description TCP RST ACK Forward

Type: number

Format: counter

tcp_rst_ack_rcvd

Description TCP RST ACK Received

Type: number

Format: counter

tcp_rst_drop

Description TCP RST Dropped

Type: number

Format: counter

tcp_rst_fwd

Description TCP RST Forward

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_syn_ack_drop

Description TCP SYN ACK Dropped

Type: number

Format: counter

tcp_syn_ack_fwd

Description TCP SYN ACK Forward

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_fwd

Description SYN Forward

Type: number

Format: counter

tcp_syn_rcvd

Description TCP Inbound SYN Received

Type: number

Format: counter

tcp_urg_drop

Description TCP URG Dropped

Type: number

Format: counter

tcp_urg_fwd

Description TCP URG Forward

Type: number

Format: counter

tcp_urg_rcvd

Description TCP URG Received

Type: number

Format: counter

unauth_drop

Description TCP Unauth Dropped

Type: number

Format: counter

unauth_src_session_reset

Description Session Reset for Unauthenticated Src

Type: number

Format: counter

wellknown_sport_drop

Description TCP SrcPort Wellknown

Type: number

Format: counter

zero_window_excd

Description Zero-Window Exceeded

Type: number

Format: counter

2.33.52 ddos dns-udp-port stats

Statistics for the object dns-udp-port

dns-udp-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*dns-udp-port-list*
Collection URI	/axapi/v3/ddos/dns-udp-port
Element Name	dns-udp-port
Element URI	/axapi/v3/ddos/dns-udp-port/stats
Element Attributes	dns-udp-port_attributes
Partition Visibility	None
Schema	`dns-udp-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-udp-port

dns-udp-port attributes

Create List

POST

/axapi/v3/ddos/dns-udp-port

dns-udp-port attributes

Get Object

GET

/axapi/v3/ddos/dns-udp-port/stats

dns-udp-port attributes

Get List

GET

/axapi/v3/ddos/dns-udp-port

dns-udp-port-list

Modify Object

POST

/axapi/v3/ddos/dns-udp-port/stats

dns-udp-port attributes

Replace Object

PUT

/axapi/v3/ddos/dns-udp-port/stats

dns-udp-port attributes

Replace List

PUT

/axapi/v3/ddos/dns-udp-port

dns-udp-port-list

Delete Object

DELETE

/axapi/v3/ddos/dns-udp-port/stats

dns-udp-port attributes

dns-udp-port-list

dns-udp-port-list is **JSON List** of *dns-udp-port attributes*

```
dns-udp-port-list : [
        { dns-udp-port attributes },
        { dns-udp-port attributes },
        ...
    ]
```

dns-udp-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

alias_forward_rate_exceed

Description ALIAS Forward Rate Exceed

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

conn_prate_excd

Description UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

dg_action_default

Description Domain Group Action Default

Type: number

Format: counter

dg_action_deny

Description Domain Group Action Deny

Type: number

Format: counter

dg_action_permit

Description Domain Group Action Permit

Type: number

Format: counter

dg_rate_exceed

Description Domain Group Domain Query Rate Exceeded

Type: number

Format: counter

dg_request_check_fail

Description Domain Group Request Check Fail

Type: number

Format: counter

dns_auth_drop

Description DNS Auth Dropped

Type: number

Format: counter

dns_auth_resp

Description DNS Auth Responded

Type: number

Format: counter

dns_malform

Description Malform Query

Type: number

Format: counter

dns_malform_drop

Description Malform Query Dropped

Type: number

Format: counter

dns_query_class_any

Description Query Class ANY

Type: number

Format: counter

dns_query_class_chaos

Description Query Class CHAOS

Type: number

Format: counter

dns_query_class_csnet

Description Query Class CSNET

Type: number

Format: counter

dns_query_class_hs

Description Query Class HESIOD

Type: number

Format: counter

dns_query_class_in

Description Query Class INTERNET

Type: number

Format: counter

dns_query_class_none

Description Query Class NONE

Type: number

Format: counter

dns_query_class_whitelist_miss

Description Query Class Whitelist Miss

Type: number

Format: counter

dnssec_wildcard_forward_rate_exceed

Description DNSSEC Wildcard Forward Rate Exceed

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action Whitelist

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

force_tcp_auth

Description Auth Force-TCP

Type: number

Format: counter

force_tcp_auth_timeout

Description Auth Force-TCP With UDP Timeout

Type: number

Format: counter

fqdn_label_count_exceed

Description FQDN Label Count Exceeded

Type: number

Format: counter

fqdn_label_len_exceed

Description FQDN Label Length Exceeded

Type: number

Format: counter

fqdn_rate_by_label_count_check

Description FQDN Rate by Label Count Checked

Type: number

Format: counter

fqdn_rate_by_label_count_exceed

Description FQDN Rate by Label Count Exceeded

Type: number

Format: counter

fqdn_stage_2_rate_exceed

Description FQDN Rate Exceeded

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

is_nxdomain

Description NXDOMAIN Response

Type: number

Format: counter

non_query_opcode_pass_through

Description Non Query Opcode Pass Through

Type: number

Format: counter

ntp_monlist_req

Description NTP Monlist Request

Type: number

Format: counter

ntp_monlist_resp

Description NTP Monlist Response

Type: number

Format: counter

nxdomain_bl_drop

Description NXDOMAIN Response Blacklisted

Type: number

Format: counter

nxdomain_drop

Description NXDOMAIN Response Dropped

Type: number

Format: counter

nxdomain_rate_exceed

Description NXDOMAIN Response Rate Exceeded

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

payload_too_big

Description UDP Payload Too Large

Type: number

Format: counter

payload_too_small

Description UDP Payload Too Small

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

query_forward_rate_exceed

Description Query Forward Rate Exceed

Type: number

Format: counter

query_type_a

Description Query Type A

Type: number

Format: counter

query_type_aaaa

Description Query Type AAAA

Type: number

Format: counter

query_type_any

Description Query Type ANY

Type: number

Format: counter

query_type_any_drop

Description Query Type ANY Dropped

Type: number

Format: counter

query_type_cname

Description Query Type CNAME

Type: number

Format: counter

query_type_mx

Description Query Type MX

Type: number

Format: counter

query_type_ns

Description Query Type NS

Type: number

Format: counter

query_type_opt

Description Query Type OPT

Type: number

Format: counter

query_type_soa

Description Query Type SOA

Type: number

Format: counter

query_type_srv

Description Query Type SRV

Type: number

Format: counter

rate_limit_type0

Description Dst Request Rate 1 Exceeded

Type: number

Format: counter

rate_limit_type1

Description Dst Request Rate 2 Exceeded

Type: number

Format: counter

rate_limit_type2

Description Dst Request Rate 3 Exceeded

Type: number

Format: counter

rate_limit_type3

Description Dst Request Rate 4 Exceeded

Type: number

Format: counter

rate_limit_type4

Description Dst Request Rate 5 Exceeded

Type: number

Format: counter

req_retrans

Description Request Retransmit

Type: number

Format: counter

req_sent

Description DNS Requests Forwarded

Type: number

Format: counter

req_size_exceed

Description Request Size Exceeded

Type: number

Format: counter

rrsig_expire_drop

Description RRSIG Expire: Drop

Type: number

Format: counter

rrtype_drop

Description Record Type Dropped

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

spoof_detect_fail

Description UDP Retry Timeout

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_dns_auth_drop

Description Src DNS Auth Dropped

Type: number

Format: counter

src_dns_fqdn_label_len_exceed

Description Src FQDN Label Length Exceeded

Type: number

Format: counter

src_dns_malform

Description Src Malform Query

Type: number

Format: counter

src_dns_malform_drop

Description Src Malform Query Dropped

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action Whitelist

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_force_tcp_auth

Description Src Auth Force-TCP

Type: number

Format: counter

src_fqdn_label_count_exceed

Description Src FQDN Label Count Exceeded

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_ntp_monlist_req

Description Src NTP Monlist Request

Type: number

Format: counter

src_ntp_monlist_resp

Description Src NTP Monlist Response

Type: number

Format: counter

src_payload_too_big

Description Src UDP Payload Too Large

Type: number

Format: counter

src_payload_too_small

Description Src UDP Payload Too Small

Type: number

Format: counter

src_query_type_any_drop

Description Src Query Type ANY Dropped

Type: number

Format: counter

src_rate_limit_type0

Description Src Request Rate 1 Exceeded

Type: number

Format: counter

src_rate_limit_type1

Description Src Request Rate 2 Exceeded

Type: number

Format: counter

src_rate_limit_type2

Description Src Request Rate 3 Exceeded

Type: number

Format: counter

src_rate_limit_type3

Description Src Request Rate 4 Exceeded

Type: number

Format: counter

src_rate_limit_type4

Description Src Request Rate 5 Exceeded

Type: number

Format: counter

src_udp_auth

Description Src Auth UDP Init

Type: number

Format: counter

src_udp_auth_drop

Description Src UDP Auth Dropped

Type: number

Format: counter

src_udp_auth_fail

Description Src Auth UDP Failed

Type: number

Format: counter

src_udp_auth_timeout

Description Src UDP Retry Timeout

Type: number

Format: counter

src_udp_retry_gap_drop

Description Src UDP Retry-Gap Dropped

Type: number

Format: counter

src_udp_retry_init

Description Src UDP Retry Init

Type: number

Format: counter

src_udp_retry_pass

Description Src UDP Retry Passed

Type: number

Format: counter

src_well_known_port

Description Src UDP SrcPort Wellknown

Type: number

Format: counter

token_authentication_curr_salt_matched

Description Token Authentication Current Salt Matched

Type: number

Format: counter

token_authentication_invalid

Description Token Authentication Invalid Packets

Type: number

Format: counter

token_authentication_mismatched

Description Token Authentication Mismatched Packets

Type: number

Format: counter

token_authentication_prev_salt_matched

Description Token Authentication Previous Salt Matched

Type: number

Format: counter

token_authentication_session_created

Description Token Authentication Session Created

Type: number

Format: counter

token_authentication_session_created_fail

Description Token Authentication Session Created Fail

Type: number

Format: counter

udp_auth

Description Auth UDP Init

Type: number

Format: counter

udp_auth_drop

Description UDP Auth Dropped

Type: number

Format: counter

udp_auth_fail

Description Auth UDP Failed

Type: number

Format: counter

udp_auth_pass

Description Auth UDP Passed

Type: number

Format: counter

udp_auth_retry_fail

Description Auth UDP Retry Failed

Type: number

Format: counter

udp_auth_retry_gap_drop

Description Auth UDP Retry-Gap Dropped

Type: number

Format: counter

udp_retry_gap_drop

Description UDP Retry-Gap Dropped

Type: number

Format: counter

udp_retry_init

Description UDP Retry Init

Type: number

Format: counter

udp_retry_pass

Description UDP Retry Passed

Type: number

Format: counter

wellknown_sport_drop

Description UDP SrcPort Wellknown

Type: number

Format: counter

2.33.53 ddos dns-udp-zone-port stats

Statistics for the object dns-udp-zone-port

dns-udp-zone-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*dns-udp-zone-port-list*
Collection URI	/axapi/v3/ddos/dns-udp-zone-port
Element Name	dns-udp-zone-port
Element URI	/axapi/v3/ddos/dns-udp-zone-port/stats
Element Attributes	dns-udp-zone-port_attributes
Partition Visibility	None
Schema	`dns-udp-zone-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dns-udp-zone-port

dns-udp-zone-port attributes

Create List

POST

/axapi/v3/ddos/dns-udp-zone-port

dns-udp-zone-port attributes

Get Object

GET

/axapi/v3/ddos/dns-udp-zone-port/stats

dns-udp-zone-port attributes

Get List

GET

/axapi/v3/ddos/dns-udp-zone-port

dns-udp-zone-port-list

Modify Object

POST

/axapi/v3/ddos/dns-udp-zone-port/stats

dns-udp-zone-port attributes

Replace Object

PUT

/axapi/v3/ddos/dns-udp-zone-port/stats

dns-udp-zone-port attributes

Replace List

PUT

/axapi/v3/ddos/dns-udp-zone-port

dns-udp-zone-port-list

Delete Object

DELETE

/axapi/v3/ddos/dns-udp-zone-port/stats

dns-udp-zone-port attributes

dns-udp-zone-port-list

dns-udp-zone-port-list is **JSON List** of *dns-udp-zone-port attributes*

dns-udp-zone-port-list : [

{ *dns-udp-zone-port attributes* },

{ *dns-udp-zone-port attributes* },

...

]

dns-udp-zone-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

alias_forward_rate_exceed

Description ALIAS Forward Rate Exceed

Type: number

Format: counter

all_src_session_reset

Description Session Reset for All Src Upon Level Escalation

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

clear_session_upon_deescalation

Description Clear Session Upon De-escalation to Level 0

Type: number

Format: counter

conn_prate_excd

Description UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

current_es_level

Description Current Escalation Level

Type: number

Format: counter

dg_action_default

Description Domain Group Action Default

Type: number

Format: counter

dg_action_deny

Description Domain Group Action Deny

Type: number

Format: counter

dg_action_permit

Description Domain Group Action Permit

Type: number

Format: counter

dg_rate_exceed

Description Domain Group Domain Query Rate Exceeded

Type: number

Format: counter

dg_request_check_fail

Description Domain Group Request Check Fail

Type: number

Format: counter

dns_auth_drop

Description DNS Auth Dropped

Type: number

Format: counter

dns_auth_resp

Description DNS Auth Responded

Type: number

Format: counter

dns_malform

Description Malform Query

Type: number

Format: counter

dns_query_class_any

Description Query Class ANY

Type: number

Format: counter

dns_query_class_chaos

Description Query Class CHAOS

Type: number

Format: counter

dns_query_class_csnet

Description Query Class CSNET

Type: number

Format: counter

dns_query_class_hs

Description Query Class HESIOD

Type: number

Format: counter

dns_query_class_in

Description Query Class INTERNET

Type: number

Format: counter

dns_query_class_none

Description Query Class NONE

Type: number

Format: counter

dns_query_class_whitelist_miss

Description Query Class Whitelist Miss

Type: number

Format: counter

dnssec_wildcard_forward_rate_exceed

Description DNSSEC Wildcard Forward Rate Exceed

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

dst_hw_drop_inserted

Description Dst Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_removed

Description Dst Hardware Drop Rules Removed

Type: number

Format: counter

dst_udp_retry_timeout_blacklist

Description UDP Retry Timeout Blacklisted

Type: number

Format: counter

dynamic_count_warn

Description dynamic-entry-count warning send

Type: number

Format: counter

ew_inbound_port_byte_drop

Description East-West Inbound Bytes Dropped

Type: number

Format: counter

ew_inbound_port_byte_rcv

Description East-West Inbound Bytes Recevied

Type: number

Format: counter

ew_inbound_port_byte_sent

Description East-West Inbound Bytes Forwarded

Type: number

Format: counter

ew_inbound_port_drop

Description East-West Inbound Packets Dropped

Type: number

Format: counter

ew_inbound_port_rcv

Description East-West Inbound Packets Received

Type: number

Format: counter

ew_inbound_port_sent

Description East-West Inbound Packets Forwarded

Type: number

Format: counter

ew_outbound_port_byte_drop

Description East-West Outbound Bytes Forwarded

Type: number

Format: counter

ew_outbound_port_byte_rcv

Description East-West Outbound Bytes Recevied

Type: number

Format: counter

ew_outbound_port_byte_sent

Description East-West Outbound Bytes Dropped

Type: number

Format: counter

ew_outbound_port_drop

Description East-West Outbound Packets Dropped

Type: number

Format: counter

ew_outbound_port_rcv

Description East-West Outbound Packets Received

Type: number

Format: counter

ew_outbound_port_sent

Description East-West Outbound Packets Forwarded

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action Whitelist

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

force_tcp_auth

Description Auth Force-TCP

Type: number

Format: counter

force_tcp_auth_timeout

Description Auth Force-TCP With UDP Timeout

Type: number

Format: counter

fqdn_label_count_exceed

Description FQDN Label Count Exceeded

Type: number

Format: counter

fqdn_label_len_exceed

Description FQDN Label Length Exceeded

Type: number

Format: counter

fqdn_rate_by_label_count_check

Description FQDN Rate by Label Count Checked

Type: number

Format: counter

fqdn_rate_by_label_count_exceed

Description FQDN Rate by Label Count Exceeded

Type: number

Format: counter

fqdn_stage_2_rate_exceed

Description FQDN Rate Exceeded

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

ip_filtering_bl

Description IP Filtering Policy: Blacklisted

Type: number

Format: counter

ip_filtering_drop

Description IP Filtering Policy: Dropped

Type: number

Format: counter

is_nxdomain

Description NXDOMAIN Response

Type: number

Format: counter

malform_drop

Description Malform Query Dropped

Type: number

Format: counter

no_policy_class_list_match

Description No Policy Class-list Match

Type: number

Format: counter

no_route_drop

Description No Route Dropped

Type: number

Format: counter

non_query_opcode_pass_through

Description Non Query Opcode Pass Through

Type: number

Format: counter

ntp_monlist_req

Description NTP Monlist Request

Type: number

Format: counter

ntp_monlist_resp

Description NTP Monlist Response

Type: number

Format: counter

nxdomain_bl_drop

Description NXDOMAIN Response Blacklisted

Type: number

Format: counter

nxdomain_drop

Description NXDOMAIN Response Dropped

Type: number

Format: counter

nxdomain_rate_exceed

Description NXDOMAIN Response Rate Exceeded

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

payload_too_big

Description UDP Payload Too Large

Type: number

Format: counter

payload_too_small

Description UDP Payload Too Small

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_src_escalation

Description Src Escalation

Type: number

Format: counter

query_forward_rate_exceed

Description Query Foward Rate Exceed

Type: number

Format: counter

query_type_a

Description Query Type A

Type: number

Format: counter

query_type_aaaa

Description Query Type AAAA

Type: number

Format: counter

query_type_any

Description Query Type ANY

Type: number

Format: counter

query_type_any_drop

Description Query Type ANY Dropped

Type: number

Format: counter

query_type_cname

Description Query Type CNAME

Type: number

Format: counter

query_type_mx

Description Query Type MX

Type: number

Format: counter

query_type_ns

Description Query Type NS

Type: number

Format: counter

query_type_opt

Description Query Type OPT

Type: number

Format: counter

query_type_soa

Description Query Type SOA

Type: number

Format: counter

query_type_srv

Description Query Type SRV

Type: number

Format: counter

rate_limit_type0

Description Dst Request Rate 1 Exceeded

Type: number

Format: counter

rate_limit_type1

Description Dst Request Rate 2 Exceeded

Type: number

Format: counter

rate_limit_type2

Description Dst Request Rate 3 Exceeded

Type: number

Format: counter

rate_limit_type3

Description Dst Request Rate 4 Exceeded

Type: number

Format: counter

rate_limit_type4

Description Dst Request Rate 5 Exceeded

Type: number

Format: counter

req_retrans

Description Request Retransmit

Type: number

Format: counter

req_sent

Description DNS Requests Forwarded

Type: number

Format: counter

req_size_exceed

Description Request Size Exceeded

Type: number

Format: counter

rrsig_expire_drop

Description RRSIG Expire: Drop

Type: number

Format: counter

rrtype_drop

Description Record Type Dropped

Type: number

Format: counter

same_sport_dport_drop

Description Same Source and Destination Port Drop

Type: number

Format: counter

secondary_port_conn_limm_exceed

Description Per Addr-Port Conn Limit Exceeded

Type: number

Format: counter

secondary_port_conn_rate_exceed

Description Per Addr-Port Conn Rate Exceeded

Type: number

Format: counter

secondary_port_hit

Description Per Addr-Port Hit

Type: number

Format: counter

secondary_port_kbit_rate_exceed

Description Per Addr-Port KiBit Rate Exceeded

Type: number

Format: counter

secondary_port_kbit_rate_exceed_pkt

Description Per Addr-Port KiBit Rate Exceeded Count

Type: number

Format: counter

secondary_port_pkt_rate_exceed

Description Per Addr-Port Packet Rate Exceeded

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

spoof_detect_fail

Description UDP Retry Timeout

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_dns_auth_drop

Description Src DNS Auth Dropped

Type: number

Format: counter

src_dns_fqdn_label_len_exceed

Description Src FQDN Label Length Exceeded

Type: number

Format: counter

src_dns_malform

Description Src Malform Query

Type: number

Format: counter

src_dns_malform_drop

Description Src Malform Query Dropped

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action Whitelist

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_force_tcp_auth

Description Src Auth Force-TCP

Type: number

Format: counter

src_fqdn_label_count_exceed

Description Src FQDN Label Count Exceeded

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_hw_drop_inserted

Description Src Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_removed

Description Src Hardware Drop Rules Removed

Type: number

Format: counter

src_learn_overflow

Description Source Dynamic Entry Overflow

Type: number

Format: counter

src_ntp_monlist_req

Description Src NTP Monlist Request

Type: number

Format: counter

src_ntp_monlist_resp

Description Src NTP Monlist Response

Type: number

Format: counter

src_payload_too_big

Description Src UDP Payload Too Large

Type: number

Format: counter

src_payload_too_small

Description Src UDP Payload Too Small

Type: number

Format: counter

src_query_type_any_drop

Description Src Query Type ANY Dropped

Type: number

Format: counter

src_rate_limit_type0

Description Src Request Rate 1 Exceeded

Type: number

Format: counter

src_rate_limit_type1

Description Src Request Rate 2 Exceeded

Type: number

Format: counter

src_rate_limit_type2

Description Src Request Rate 3 Exceeded

Type: number

Format: counter

src_rate_limit_type3

Description Src Request Rate 4 Exceeded

Type: number

Format: counter

src_rate_limit_type4

Description Src Request Rate 5 Exceeded

Type: number

Format: counter

src_udp_auth_drop

Description Src UDP Auth Dropped

Type: number

Format: counter

src_udp_auth_fail

Description Src Auth UDP Failed

Type: number

Format: counter

src_udp_auth_init

Description Src Auth UDP Init

Type: number

Format: counter

src_udp_auth_timeout

Description Src UDP Retry Timeout

Type: number

Format: counter

src_udp_retry_gap_drop

Description Src UDP Retry-Gap Dropped

Type: number

Format: counter

src_udp_retry_init

Description Src UDP Retry Init

Type: number

Format: counter

src_udp_retry_pass

Description Src UDP Retry Passed

Type: number

Format: counter

src_well_known_port

Description Src UDP SrcPort Wellknown

Type: number

Format: counter

src_zone_service_entry_aged

Description SrcZoneService Entry Aged

Type: number

Format: counter

src_zone_service_entry_hit

Description SrcZoneService Entry Hit

Type: number

Format: counter

src_zone_service_entry_learned

Description SrcZoneService Entry Learned

Type: number

Format: counter

token_authentication_curr_salt_matched

Description Token Authentication Current Salt Matched

Type: number

Format: counter

token_authentication_invalid

Description Token Authentication Invalid Packets

Type: number

Format: counter

token_authentication_mismatched

Description Token Authentication Mismatched Packets

Type: number

Format: counter

token_authentication_prev_salt_matched

Description Token Authentication Previous Salt Matched

Type: number

Format: counter

token_authentication_session_created

Description Token Authentication Session Created

Type: number

Format: counter

token_authentication_session_created_fail

Description Token Authentication Session Created Fail

Type: number

Format: counter

udp_auth_drop

Description UDP Auth Dropped

Type: number

Format: counter

udp_auth_fail

Description Auth UDP Failed

Type: number

Format: counter

udp_auth_init

Description Auth UDP Init

Type: number

Format: counter

udp_auth_pass

Description Auth UDP Passed

Type: number

Format: counter

udp_auth_retry_fail

Description Auth UDP Retry Failed

Type: number

Format: counter

udp_auth_retry_gap_drop

Description Auth UDP Retry-Gap Dropped

Type: number

Format: counter

udp_retry_gap_drop

Description UDP Retry-Gap Dropped

Type: number

Format: counter

udp_retry_init

Description UDP Retry Init

Type: number

Format: counter

udp_retry_pass

Description UDP Retry Passed

Type: number

Format: counter

unauth_src_session_reset

Description Session Reset for Unauthenticated Src

Type: number

Format: counter

wellknown_sport_drop

Description UDP SrcPort Wellknown

Type: number

Format: counter

zone_src_udp_retry_timeout_blacklist

Description Src UDP Retry Timeout Blacklisted

Type: number

Format: counter

2.33.54 ddos dst

Create dest-ip limit entry

dst Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	dst
Element URI	/axapi/v3/ddos/dst
Element Attributes	dst_attributes
Partition Visibility	shared
Schema	`dst schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/dst

dst_attributes

dst attributes

default-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}*

dynamic-entries-resource-usage

Description: dynamic-entries-resource-usage is a **JSON Block**. Please see below for *dynamic-entries-resource-usage*

Type: Object

Reference Object: */axapi/v3/ddos/dst/dynamic-entries-resource-usage*

dynamic-entry

Description: dynamic-entry is a **JSON Block**. Please see below for *dynamic-entry*

Type: Object

Reference Object: */axapi/v3/ddos/dst/dynamic-entry*

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}*

entry-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}*

interface-ip-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ip/{addr}*

interface-ipv6-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ipv6/{addr}*

zone-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}*

interface-ip-list

Specification	Value
Type	*list*
Block object keys	

addr

Description IP address of interface

Type: string

Format: ipv4-address

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ip/{addr}/ip-proto/{port-num}*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ip/{addr}/l4-type/{protocol}*

log-enable

Description Enable logging of limit exceed drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ip/{addr}/port/{port-num}+{protocol}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

interface-ip-list_port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'tcp': tcp; 'udp': udp; 'http-probe': http port for interface health check;

Type: string

Supported Values: tcp, udp, http-probe

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

interface-ip-list_ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description IP protocol number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

interface-ip-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *interface-ip-list_l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *interface-ip-list_l4-type-list_tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

interface-ip-list_l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

interface-ip-list_l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

interface-ip-list_l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 5-1023

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-address-type

Description ‘ip’: ip; ‘ipv6’: ipv6;

Type: string

Supported Values: ip, ipv6

deny

Description Blacklist and Drop all incoming packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable

Description Disable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-disable

Description Disable certain drops during packet processing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-disable-fwd-immediate

Description Immediately forward L4 drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *default-list_exceed-log-cfg*

Type: Object

exceed-log-dep-cfg

Description: exceed-log-dep-cfg is a **JSON Block**. Please see below for *default-list_exceed-log-dep-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

inbound-forward-dscp

Description To set dscp value for inbound packets (DSCP Value for the clear traffic marking)

Type: number

Range: 1-63

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}/ip-proto/{port-num}*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic dst entry

Type: number

Range: 0-2147483647

outbound-forward-dscp

Description To set dscp value for outbound

Type: number

Range: 1-63

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}/port/{port-num}+{protocol}*

src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}/src-port/{port-num}+{protocol}*

template

Description: template is a **JSON Block**. Please see below for *default-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

default-list_port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-tcp': dns-tcp; 'dns-udp': dns-udp; 'http': http; 'tcp': tcp; 'udp': udp; 'ssl-l4': ssl-l4; 'sip-udp': sip-udp; 'sip-tcp': sip-tcp;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

template

Description: template is a **JSON Block**. Please see below for *default-list_port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

default-list_port-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

default-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

default-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-syn-auth

Description Disable TCP SYN Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-port-match

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow. Exceed action set to Drop

Type: number

Range: 1-6

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-client

Description Send reset to client when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-server

Description Send reset to server when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *default-list_l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *default-list_l4-type-list_tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

default-list_l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-list_l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

default-list_l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

default-list_src-port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'udp': udp; 'tcp': tcp;

Type: string

Supported Values: udp, tcp

template

Description: template is a **JSON Block**. Please see below for *default-list_src-port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

default-list_src-port-list_template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

default-list_ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Protocol Number

Type: number

Range: 0-255

template

Description: template is a **JSON Block**. Please see below for *default-list_ip-proto-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

default-list_ip-proto-list_template

Specification	Value
Type	*object*

other

Description DDOS other template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

default-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

with-sflow-sample

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-list_exceed-log-dep-cfg

Specification	Value
Type	*object*

exceed-log-enable

Description (Deprecated)Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-with-sflow-dep

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entries-resource-usage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

interface-ipv6-list

Specification	Value
Type	*list*
Block object keys	

addr

Description IPv6 address of interface

Type: string

Format: ipv6-address

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ipv6/{addr}/ip-proto/{port-num}*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ipv6/{addr}/l4-type/{protocol}*

log-enable

Description Enable logging of limit exceed drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ipv6/{addr}/port/{port-num}+{protocol}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

interface-ipv6-list_port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'tcp': tcp; 'udp': udp; 'http-probe': http port for interface health check;

Type: string

Supported Values: tcp, udp, http-probe

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

interface-ipv6-list_ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description IP protocol number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

interface-ipv6-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *interface-ipv6-list_l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *interface-ipv6-list_l4-type-list_tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

interface-ipv6-list_l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

interface-ipv6-list_l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

interface-ipv6-list_l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list

Specification	Value
Type	*list*
Block object keys	

advertised-enable

Description BGP advertised

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

blackhole-on-glid-exceed

Description Blackhole destination entry for X minutes upon glid limit exceeded

Type: number

Range: 1-30

capture-config-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/capture-config/{name}*

description

Description Description for this Destination Entry

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dest-nat-ip

Description Destination NAT IP address

Type: string

Format: ipv4-address

dest-nat-ipv6

Description Destination NAT IPv6 address

Type: string

Format: ipv6-address

drop-disable

Description Disable certain drops during packet processing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-disable-fwd-immediate

Description Immediately forward L4 drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-src-dst-default

Description Drop if no match with src-based-policy class-list, and default is not configured

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-entry-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}*

enable-top-k

Type: List

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *entry-list_exceed-log-cfg*

Type: Object

exceed-log-dep-cfg

Description: exceed-log-dep-cfg is a **JSON Block**. Please see below for *entry-list_exceed-log-dep-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *entry-list_glid-exceed-action*

Type: Object

hw-blacklist-blocking

Description: hw-blacklist-blocking is a **JSON Block**. Please see below for *entry-list_hw-blacklist-blocking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/hw-blacklist-blocking*

inbound-forward-dscp

Description To set dscp value for inbound packets (DSCP Value for the clear traffic marking)

Type: number

Range: 1-63

ip-addr

Description

Type: string

Format: ipv4-address

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}*

ipv6-addr

Description

Type: string

Format: ipv6-address

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

operational-mode

Description 'protection': Protection mode; 'bypass': Bypass mode;

Type: string

Supported Values: protection, bypass

Default: protection

outbound-forward-dscp

Description To set dscp value for outbound

Type: number

Range: 1-63

pattern-recognition-hw-filter-enable

Description to enable pattern recognition hardware filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition-sensitivity

Description 'high': High sensitive pattern recognition; 'medium': Medium sensitive pattern recognition; 'low': Low sensitive pattern recognition;

Type: string

Supported Values: high, medium, low

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}*

reporting-disabled

Description Disable Reporting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Type: List

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow

Description: sflow is a **JSON Block**. Please see below for *entry-list_sflow*

Type: Object

source-nat-pool

Description Configure source NAT

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-dst-pair

Description: src-dst-pair is a **JSON Block**. Please see below for *entry-list_src-dst-pair*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair*

src-dst-pair-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}*

src-dst-pair-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}*

src-dst-pair-settings-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}*

src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}*

src-port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}*

subnet-ip-addr

Description IP Subnet

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description IPV6 Subnet

Type: string

Format: ipv6-address-plen

template

Description: template is a **JSON Block**. Please see below for *entry-list_template*

Type: Object

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *entry-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description: capture-config is a **JSON Block**. Please see below for *entry-list_port-list_capture-config*

Type: Object

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detection-enable

Description Enable ddos detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-cache

Description DNS Cache Instance

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/dns-cache*

enable-top-k

Description Enable ddos top-k entries

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *entry-list_port-list_glid-exceed-action*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *entry-list_port-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *entry-list_port-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *entry-list_port-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind*

port-num

Description Port Number

Type: number

Range: 0-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *entry-list_port-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow

Description: sflow is a **JSON Block**. Please see below for *entry-list_port-list_sflow*

Type: Object

signature-extraction

Description: signature-extraction is a **JSON Block**. Please see below for *entry-list_port-list_signature-extraction*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/signature-extraction*

template

Description: template is a **JSON Block**. Please see below for *entry-list_port-list_template*

Type: Object

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *entry-list_port-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-list_signature-extraction

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

manual-mode

Description Enable manual mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_port-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *entry-list_port-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

entry-list_port-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

entry-list_port-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min;

‘ddet_ind_rst_rate_max’: TCP RST Rate Max; ‘ddet_ind_small_window_ack_rate_current’: TCP Small Window ACK Rate Current; ‘ddet_ind_small_window_ack_rate_min’: TCP Small Window ACK Rate Min; ‘ddet_ind_small_window_ack_rate_max’: TCP Small Window ACK Rate Max; ‘ddet_ind_empty_ack_rate_current’: TCP Empty ACK Rate Current; ‘ddet_ind_empty_ack_rate_min’: TCP Empty ACK Rate Min; ‘ddet_ind_empty_ack_rate_max’: TCP Empty ACK Rate Max; ‘ddet_ind_small_payload_rate_current’: TCP Small Payload Rate Current; ‘ddet_ind_small_payload_rate_min’: TCP Small Payload Rate Min; ‘ddet_ind_small_payload_rate_max’: TCP Small Payload Rate Max; ‘ddet_ind_pkt_drop_ratio_current’: Pkt Drop / Pkt Rcvd Current; ‘ddet_ind_pkt_drop_ratio_min’: Pkt Drop / Pkt Rcvd Min; ‘ddet_ind_pkt_drop_ratio_max’: Pkt Drop / Pkt Rcvd Max; ‘ddet_ind_inb_per_outb_current’: Bytes-to / Bytes-from Current; ‘ddet_ind_inb_per_outb_min’: Bytes-to / Bytes-from Min; ‘ddet_ind_inb_per_outb_max’: Bytes-to / Bytes-from Max; ‘ddet_ind_syn_per_fin_rate_current’: TCP SYN Rate / FIN Rate Current; ‘ddet_ind_syn_per_fin_rate_min’: TCP SYN Rate / FIN Rate Min; ‘ddet_ind_syn_per_fin_rate_max’: TCP SYN Rate / FIN Rate Max; ‘ddet_ind_conn_miss_rate_current’: TCP Session Miss Rate Current; ‘ddet_ind_conn_miss_rate_min’: TCP Session Miss Rate Min; ‘ddet_ind_conn_miss_rate_max’: TCP Session Miss Rate Max; ‘ddet_ind_concurrent_conns_current’: TCP/UDP Concurrent Sessions Current; ‘ddet_ind_concurrent_conns_min’: TCP/UDP Concurrent Sessions Min; ‘ddet_ind_concurrent_conns_max’: TCP/UDP Concurrent Sessions Max; ‘ddet_ind_data_cpu_util_current’: Data CPU Utilization Current; ‘ddet_ind_data_cpu_util_min’: Data CPU Utilization Min; ‘ddet_ind_data_cpu_util_max’: Data CPU Utilization Max; ‘ddet_ind_outside_intf_util_current’: Outside Interface Utilization Current; ‘ddet_ind_outside_intf_util_min’: Outside Interface Utilization Min; ‘ddet_ind_outside_intf_util_max’: Outside Interface Utilization Max; ‘ddet_ind_frag_rate_current’: Frag Pkt Rate Current; ‘ddet_ind_frag_rate_min’: Frag Pkt Rate Min; ‘ddet_ind_frag_rate_max’: Frag Pkt Rate Max; ‘ddet_ind_bit_rate_current’: Bit Rate Current; ‘ddet_ind_bit_rate_min’: Bit Rate Min; ‘ddet_ind_bit_rate_max’: Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min,

ddet_ind_bit_rate_max

entry-list_port-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-list_sflow

Specification	Value
Type	*object*

polling

Description: polling is a **JSON Block**. Please see below for *entry-list_port-list_sflow_polling*

Type: Object

entry-list_port-list_sflow_polling

Specification	Value
Type	*object*

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *entry-list_port-list_sflow_polling_sflow-tcp*

Type: Object

entry-list_port-list_sflow_polling_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list_port-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_capture-config-list

Specification	Value
Type	*list*
Block object keys	

mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dummy-name

Description 'configuration': Configure src dst dynamic entry count overflow policy;

Type: string

Supported Values: configuration

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *entry-list_dynamic-entry-overflow-policy-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *entry-list_dynamic-entry-overflow-policy-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_dynamic-entry-overflow-policy-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_dynamic-entry-overflow-policy-list_app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *entry-list_dynamic-entry-overflow-policy-list_app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_dynamic-entry-overflow-policy-list_app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_dynamic-entry-overflow-policy-list_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *entry-list_dynamic-entry-overflow-policy-list_l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_dynamic-entry-overflow-policy-list_l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_dynamic-entry-overflow-policy-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list_port-range-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description: capture-config is a **JSON Block**. Please see below for *entry-list_port-range-list_capture-config*

Type: Object

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detection-enable

Description Enable ddos detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k entries

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *entry-list_port-range-list_glid-exceed-action*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *entry-list_port-range-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *entry-list_port-range-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *entry-list_port-range-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *entry-list_port-range-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow

Description: sflow is a **JSON Block**. Please see below for *entry-list_port-range-list_sflow*

Type: Object

template

Description: template is a **JSON Block**. Please see below for *entry-list_port-range-list_template*

Type: Object

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *entry-list_port-range-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-range-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-range-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_port-range-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *entry-list_port-range-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

entry-list_port-range-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

entry-list_port-range-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-range-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-range-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max':

TCP Small Window ACK Rate Max; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max

entry-list_port-range-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-range-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_port-range-list_sflow

Specification	Value
Type	*object*

polling

Description: polling is a **JSON Block**. Please see below for *entry-list_port-range-list_sflow_polling*

Type: Object

entry-list_port-range-list_sflow_polling

Specification	Value
Type	*object*

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *entry-list_port-range-list_sflow_polling_sflow-tcp*

Type: Object

entry-list_port-range-list_sflow_polling_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list_port-range-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_hw-blacklist-blocking

Specification	Value
Type	*object*

dst-enable

Description Enable Dst side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-enable

Description Enable Src side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-class-list-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst/{protocol}*

cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}*

class-list-name

Description Class-list name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *entry-list_src-dst-pair-class-list-list_exceed-log-cfg*

Type: Object

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-class-list-list_cid-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid/{protocol}*

cid-num

Description Class-list id

Type: number

Range: 1-32

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *entry-list_src-dst-pair-class-list-list_cid-list_exceed-log-cfg*

Type: Object

l4-type-src-dst-cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-class-list-list_cid-list_app-type-src-dst-cid-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-dst-pair-class-list-list_cid-list_app-type-src-dst-cid-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-class-list-list_cid-list_app-type-src-dst-cid-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-class-list-list_cid-list_l4-type-src-dst-cid-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-dst-pair-class-list-list_cid-list_l4-type-src-dst-cid-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-class-list-list_cid-list_l4-type-src-dst-cid-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-class-list-list_cid-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list_src-dst-pair-class-list-list_app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-dst-pair-class-list-list_app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-class-list-list_app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-class-list-list_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-dst-pair-class-list-list_l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-class-list-list_l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-class-list-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *entry-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

entry-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

entry-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detection-enable

Description Enable ddos detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-syn-auth

Description Disable TCP SYN Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-port-match

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

enable-top-k

Description Enable ddos top-k entries

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *entry-list_l4-type-list_glid-exceed-action*

Type: Object

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow

Type: number

Range: 1-6

max-rexmit-syn-per-flow-exceed-action

Description 'drop': Drop the packet; 'black-list': Add the source IP into black list;

Type: string

Supported Values: drop, black-list

port-ind

Description: port-ind is a **JSON Block**. Please see below for *entry-list_l4-type-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *entry-list_l4-type-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking*

protocol

Description 'tcp': L4-Type TCP; 'udp': L4-Type UDP; 'icmp': L4-Type ICMP; 'other': L4-Type OTHER;

Type: string

Supported Values: tcp, udp, icmp, other

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-client

Description Send reset to client when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-server

Description Send reset to server when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *entry-list_l4-type-list_template*

Type: Object

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *entry-list_l4-type-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources*

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *entry-list_l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *entry-list_l4-type-list_tunnel-rate-limit*

Type: Object

undefined-port-hit-statistics

Description: undefined-port-hit-statistics is a **JSON Block**. Please see below for *entry-list_l4-type-list_undefined-port-hit-statistics*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_l4-type-list_undefined-port-hit-statistics

Specification	Value
Type	*object*

reset-interval

Description Configure port scanning counter reset interval (minutes), Default 60 mins

Type: number

Range: 1-64000

Default: 60

undefined-port-hit-statistics

Description Enable port scanning statistics

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list_l4-type-list_template

Specification	Value
Type	*object*

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

entry-list_l4-type-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *entry-list_l4-type-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

entry-list_l4-type-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

entry-list_l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

entry-list_l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

entry-list_l4-type-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_l4-type-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session

Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max

entry-list_l4-type-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list_l4-type-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-settings-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

all-types

Description 'all-types': Settings for all types (default or class-list);

Type: string

Supported Values: all-types

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for DST entry or each class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst/{protocol}*

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry

Type: number

Range: 0-2147483647

src-prefix-len

Description Specify src prefix length for IPv6 (default: not set)

Type: number

Range: 32-127

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-settings-list_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry

Type: number

Range: 0-2147483647

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-port-range-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'udp': UDP Port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

src-port-range-end

Description Src Port-Range End Port Number

Type: number

Range: 2-65535

src-port-range-start

Description Src Port-Range Start Port Number

Type: number

Range: 1-65535

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-port-range-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-port-range-list_template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

esp-inspect

Description: esp-inspect is a **JSON Block**. Please see below for *entry-list_ip-proto-list_esp-inspect*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *entry-list_ip-proto-list_glid-exceed-action*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

port-num

Description Protocol Number

Type: number

Range: 0-255

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

template

Description: template is a **JSON Block**. Please see below for *entry-list_ip-proto-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_ip-proto-list_esp-inspect

Specification	Value
Type	*object*

auth-algorithm

Description 'AUTH_NULL': No Integrity Check Value; 'HMAC-SHA-1-96': 96 bit Auth Algo; 'HMAC-SHA-256-96': 96 bit Auth Algo; 'HMAC-SHA-256-128': 128 bit Auth Algo; 'HMAC-SHA-384-192': 192 bit Auth Algo; 'HMAC-SHA-512-256': 256 bit Auth Algo; 'HMAC-MD5-96': 96 bit Auth Algo; 'MAC-RIPEMD-160-96': 96 bit Auth Algo;

Type: string

Supported Values: AUTH_NULL, HMAC-SHA-1-96, HMAC-SHA-256-96, HMAC-SHA-256-128, HMAC-SHA-384-192, HMAC-SHA-512-256, HMAC-MD5-96, MAC-RIPEMD-160-96

encrypt-algorithm

Description 'NULL': Null Encryption Algorithm;

Type: string

Supported Values: NULL

mode

Description 'transport': Transport mode;

Type: string

Supported Values: transport

entry-list_ip-proto-list_template

Specification	Value
Type	*object*

other

Description DDOS other template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_ip-proto-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *entry-list_ip-proto-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

entry-list_ip-proto-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

entry-list_src-port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

outbound-src-tracking

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-udp': DNS-UDP Port; 'dns-tcp': DNS-TCP Port; 'udp': UDP Port; 'tcp': TCP Port;

Type: string

Supported Values: dns-udp, dns-tcp, udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-port-list_template

Specification	Value
Type	*object*

src-dns

Description DDOS dns src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-high-frequency

Description Enable High frequency logging for non-event logs per entry

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-with-sflow

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

rate-limit

Description Rate limit per second per entry(Default : 1 per second)

Type: number

Range: 1-1000

Default: 1

entry-list_sflow

Specification	Value
Type	*object*

collector

Type: List

polling

Description: polling is a **JSON Block**. Please see below for *entry-list_sflow_polling*

Type: Object

entry-list_sflow_collector

Specification	Value
Type	*list*
Block object keys	

sflow-name

Description Name of configured custom sFlow collector

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/sflow/collector/custom*

entry-list_sflow_polling

Specification	Value
Type	*object*

sflow-http

Description Enable sFlow HTTP counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the total number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-layer-4

Description Enable sFlow Layer 4 counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the total num

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-packets

Description Enable sFlow packet-level counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the tota

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *entry-list_sflow_polling_sflow-tcp*

Type: Object

sflow-undef-port-hit-stats

Description Enable sFlow undefined-port-hit-statistics polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-undef-port-hit-stats-brief

Description Enable sFlow undefined-port-hit-statistics polling in brief mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list_sflow_polling_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the total n

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the tota

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list_src-dst-pair

Specification	Value
Type	*object*

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default

Description Configure default

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *entry-list_src-dst-pair_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-dst-pair_template*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_src-dst-pair_app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-dst-pair_app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair_app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_src-dst-pair_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-dst-pair_l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair_l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_src-dst-pair_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list_src-dst-pair-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Src-based-policy name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *entry-list_src-dst-pair-policy-list_policy-class-list-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry under class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-dst-pair-policy-list_policy-class-list-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-policy-list_policy-class-list-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-policy-list_policy-class-list-list_app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-dst-pair-policy-list_policy-class-list-list_app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-policy-list_policy-class-list-list_app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow

entry-list_src-dst-pair-policy-list_policy-class-list-list_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-dst-pair-policy-list_policy-class-list-list_l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-policy-list_policy-class-list-list_l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-overflow-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dummy-name

Description 'configuration': Configure src dst dynamic entry count overflow policy for class-list;

Type: string

Supported Values: configuration

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-overflow-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_l4-type-src-dst-overflow-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_l4-type-src-dst-overflow-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_l4-type-src-dst-overflow-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_app-type-src-dst-overflow-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_app-type-src-dst-overflow-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_app-type-src-dst-overflow-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list_src-dst-pair-policy-list_policy-class-list-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'dst_tcp_any_exceed': TCP Dst L4-Type Rate: Total Exceeded; 'dst_tcp_pkt_rate_exceed': TCP Dst L4-Type Rate: Packet Exceeded; 'dst_tcp_conn_rate_exceed': TCP Dst L4-Type Rate: Conn Exceeded; 'dst_udp_any_exceed': UDP Dst L4-Type Rate: Total Exceeded; 'dst_udp_pkt_rate_exceed': UDP Dst L4-Type Rate: Packet Exceeded; 'dst_udp_conn_limit_exceed': UDP Dst L4-Type Limit: Conn Exceeded; 'dst_udp_conn_rate_exceed': UDP Dst L4-Type Rate: Conn Exceeded; 'dst_icmp_pkt_rate_exceed': ICMP Dst Rate: Packet Exceeded; 'dst_other_pkt_rate_exceed': OTHER Dst L4-Type Rate: Packet Exceeded; 'dst_other_frag_pkt_rate_exceed': OTHER Dst L4-Type Rate: Frag Exceeded; 'dst_port_pkt_rate_exceed': Port Rate: Packet Exceeded; 'dst_port_conn_limit_exceed': Port Limit: Conn Exceeded; 'dst_port_conn_rate_exceed': Port Rate: Conn Exceeded; 'dst_pkt_sent': Inbound: Packets Forwarded; 'dst_udp_pkt_sent': UDP Total Packets Forwarded; 'dst_tcp_pkt_sent': TCP Total Packets Forwarded; 'dst_icmp_pkt_sent': ICMP Total Packets Forwarded; 'dst_other_pkt_sent': OTHER Total Packets Forwarded; 'dst_tcp_conn_limit_exceed': TCP Dst L4-Type Limit: Conn Exceeded; 'dst_tcp_pkt_rcvd': TCP Total Packets Received; 'dst_udp_pkt_rcvd': UDP Total Packets Received; 'dst_icmp_pkt_rcvd': ICMP Total Packets Received; 'dst_other_pkt_rcvd': OTHER Total Packets Received; 'dst_udp_filter_match': UDP Filter Match; 'dst_udp_filter_not_match': UDP Filter Not Matched on Pkt; 'dst_udp_filter_action_blacklist': UDP Filter Action Blacklist; 'dst_udp_filter_action_drop': UDP Filter Action Drop; 'dst_tcp_syn': TCP Total SYN Received; 'dst_tcp_syn_drop': TCP SYN Packets Dropped; 'dst_tcp_src_rate_drop': TCP Src Rate: Total Exceeded; 'dst_udp_src_rate_drop': UDP Src Rate: Total Exceeded; 'dst_icmp_src_rate_drop': ICMP Src Rate: Total Exceeded; 'dst_other_frag_src_rate_drop': OTHER Src Rate: Frag Exceeded; 'dst_other_src_rate_drop': OTHER Src Rate: Total Exceeded; 'dst_tcp_drop': TCP Total Packets Dropped; 'dst_udp_drop': UDP Total Packets Dropped; 'dst_icmp_drop': ICMP Total Packets Dropped; 'dst_frag_drop': Fragmented Packets Dropped; 'dst_other_drop': OTHER Total Packets Dropped; 'dst_tcp_auth': TCP Auth: SYN Cookie Sent; 'dst_udp_filter_action_default_pass': UDP Filter Action Default Pass; 'dst_tcp_filter_match': TCP Filter Match; 'dst_tcp_filter_not_match': TCP Filter Not Matched on Pkt; 'dst_tcp_filter_action_blacklist': TCP Filter Action Blacklist;

'dst_tcp_filter_action_drop': TCP Filter Action Drop; 'dst_tcp_filter_action_default_pass': TCP Filter Action Default Pass; 'dst_udp_filter_action_whitelist': UDP Filter Action WL; 'dst_over_limit_on': DST overlimit Trigger ON; 'dst_over_limit_off': DST overlimit Trigger OFF; 'dst_port_over_limit_on': DST port overlimit Trigger ON; 'dst_port_over_limit_off': DST port overlimit Trigger OFF; 'dst_over_limit_action': DST overlimit action; 'dst_port_over_limit_action': DST port overlimit action; 'scanning_detected_drop': Scanning Detected drop (deprecated); 'scanning_detected_blacklist': Scanning Detected blacklist (deprecated); 'dst_udp_kibit_rate_drop': UDP Dst L4-Type Rate: KiBit Exceeded; 'dst_tcp_kibit_rate_drop': TCP Dst L4-Type Rate: KiBit Exceeded; 'dst_icmp_kibit_rate_drop': ICMP Dst Rate: KiBit Exceeded; 'dst_other_kibit_rate_drop': OTHER Dst L4-Type Rate: KiBit Exceeded; 'dst_port_undef_drop': Dst Port Undefined Dropped; 'dst_port_bl': Dst Port Blacklist Packets Dropped; 'dst_src_port_bl': Dst Src-Port Blacklist Packets Dropped; 'dst_port_kbit_rate_exceed': Port Rate: KiBit Exceeded; 'dst_tcp_src_drop': TCP Src Packets Dropped; 'dst_udp_src_drop': UDP Src Packets Dropped; 'dst_icmp_src_drop': ICMP Src Packets Dropped; 'dst_other_src_drop': OTHER Src Packets Dropped; 'tcp_syn_rcvd': TCP Inbound SYN Received; 'tcp_syn_ack_rcvd': TCP SYN ACK Received; 'tcp_ack_rcvd': TCP ACK Received; 'tcp_fin_rcvd': TCP FIN Received; 'tcp_rst_rcvd': TCP RST Received; 'ingress_bytes': Inbound: Bytes Received; 'egress_bytes': Outbound: Bytes Received; 'ingress_packets': Inbound: Packets Received; 'egress_packets': Outbound: Packets Received; 'tcp_fwd_recv': TCP Inbound Packets Received; 'udp_fwd_recv': UDP Inbound Packets Received; 'icmp_fwd_recv': ICMP Inbound Packets Received; 'tcp_syn_cookie_fail': TCP Auth: SYN Cookie Failed; 'dst_tcp_session_created': TCP Sessions Created; 'dst_udp_session_created': UDP Sessions Created; 'dst_tcp_filter_action_whitelist': TCP Filter Action WL; 'dst_other_filter_match': OTHER Filter Match; 'dst_other_filter_not_match': OTHER Filter Not Matched on Pkt; 'dst_other_filter_action_blacklist': OTHER Filter Action Blacklist; 'dst_other_filter_action_drop': OTHER Filter Action Drop; 'dst_other_filter_action_whitelist': OTHER Filter Action WL; 'dst_other_filter_action_default_pass': OTHER Filter Action Default Pass; 'dst_blackhole_inject': Dst Blackhole Inject; 'dst_blackhole_withdraw': Dst Blackhole Withdraw; 'dst_tcp_out_of_seq_excd': TCP Out-Of-Seq Exceeded; 'dst_tcp_retransmit_excd': TCP Retransmit Exceeded; 'dst_tcp_zero_window_excd': TCP Zero-Window Exceeded; 'dst_tcp_conn_prate_excd': TCP Rate: Conn Pkt Exceeded; 'dst_tcp_action_on_ack_init': TCP Auth: ACK Retry Init; 'dst_tcp_action_on_ack_gap_drop': TCP Auth: ACK Retry Retry-Gap Dropped; 'dst_tcp_action_on_ack_fail': TCP Auth: ACK Retry Dropped; 'dst_tcp_action_on_ack_pass': TCP Auth: ACK Retry Passed; 'dst_tcp_action_on_syn_init': TCP Auth: SYN Retry Init; 'dst_tcp_action_on_syn_gap_drop': TCP Auth: SYN Retry-Gap Dropped; 'dst_tcp_action_on_syn_fail': TCP Auth: SYN Retry Dropped; 'dst_tcp_action_on_syn_pass': TCP Auth: SYN Retry Passed; 'udp_payload_too_small': UDP Payload Too Small; 'udp_payload_too_big': UDP Payload Too Large; 'dst_udp_conn_prate_excd': UDP Rate: Conn Pkt Exceeded; 'dst_udp_ntp_monlist_req': UDP NTP Monlist Request; 'dst_udp_ntp_monlist_resp': UDP NTP Monlist Response; 'dst_udp_wellknown_sport_drop': UDP SrcPort Wellknown; 'dst_udp_retry_init': UDP Auth: Retry Init; 'dst_udp_retry_pass': UDP Auth: Retry Passed; 'dst_tcp_bytes_drop': TCP Total Bytes Dropped; 'dst_udp_bytes_drop': UDP Total Bytes Dropped; 'dst_icmp_bytes_drop': ICMP Total Bytes Dropped; 'dst_other_bytes_drop': OTHER Total Bytes Dropped; 'dst_out_no_route': Dst IPv4/v6 Out No Route; 'outbound_bytes_sent': Outbound: Bytes Forwarded; 'outbound_pkt_drop': Outbound: Packets Dropped; 'outbound_bytes_drop': Outbound: Bytes Dropped; 'outbound_pkt_sent': Outbound: Packets Forwarded; 'inbound_bytes_sent': Inbound: Bytes Forwarded; 'inbound_bytes_drop': Inbound: Bytes Dropped; 'dst_src_port_pkt_rate_exceed': SrcPort Rate: Packet Exceeded; 'dst_src_port_kbit_rate_exceed': SrcPort Rate: KiBit Exceeded; 'dst_src_port_conn_limit_exceed': SrcPort Limit: Conn Exceeded; 'dst_src_port_conn_rate_exceed': SrcPort Rate: Conn Ex-

ceeded; 'dst_ip_proto_pkt_rate_exceed': IP-Proto Rate: Packet Exceeded; 'dst_ip_proto_kbit_rate_exceed': IP-Proto Rate: KiBit Exceeded; 'dst_tcp_port_any_exceed': TCP Port Rate: Total Exceed; 'dst_udp_port_any_exceed': UDP Port Rate: Total Exceed; 'dst_tcp_auth_pass': TCP Auth: SYN Auth Passed; 'dst_tcp_rst_cookie_fail': TCP Auth: RST Cookie Failed; 'dst_tcp_unauth_drop': TCP Auth: Unauth Dropped; 'src_tcp_syn_auth_fail': Src TCP Auth: SYN Auth Failed; 'src_tcp_syn_cookie_sent': Src TCP Auth: SYN Cookie Sent; 'src_tcp_syn_cookie_fail': Src TCP Auth: SYN Cookie Failed; 'src_tcp_rst_cookie_fail': Src TCP Auth: RST Cookie Failed; 'src_tcp_unauth_drop': Src TCP Auth: Unauth Dropped; 'src_tcp_action_on_syn_init': Src TCP Auth: SYN Retry Init;

Type: string

Supported Values: all, dst_tcp_any_exceed, dst_tcp_pkt_rate_exceed, dst_tcp_conn_rate_exceed, dst_udp_any_exceed, dst_udp_pkt_rate_exceed, dst_udp_conn_limit_exceed, dst_udp_conn_rate_exceed, dst_icmp_pkt_rate_exceed, dst_other_pkt_rate_exceed, dst_other_frag_pkt_rate_exceed, dst_port_pkt_rate_exceed, dst_port_conn_limit_exceed, dst_port_conn_rate_exceed, dst_pkt_sent, dst_udp_pkt_sent, dst_tcp_pkt_sent, dst_icmp_pkt_sent, dst_other_pkt_sent, dst_tcp_conn_limit_exceed, dst_tcp_pkt_rcvd, dst_udp_pkt_rcvd, dst_icmp_pkt_rcvd, dst_other_pkt_rcvd, dst_udp_filter_match, dst_udp_filter_not_match, dst_udp_filter_action_blacklist, dst_udp_filter_action_drop, dst_tcp_syn, dst_tcp_syn_drop, dst_tcp_src_rate_drop, dst_udp_src_rate_drop, dst_icmp_src_rate_drop, dst_other_frag_src_rate_drop, dst_other_src_rate_drop, dst_tcp_drop, dst_udp_drop, dst_icmp_drop, dst_frag_drop, dst_other_drop, dst_tcp_auth, dst_udp_filter_action_default_pass, dst_tcp_filter_match, dst_tcp_filter_not_match, dst_tcp_filter_action_blacklist, dst_tcp_filter_action_drop, dst_tcp_filter_action_default_pass, dst_udp_filter_action_whitelist, dst_over_limit_on, dst_over_limit_off, dst_port_over_limit_on, dst_port_over_limit_off, dst_over_limit_action, dst_port_over_limit_action, scanning_detected_drop, scanning_detected_blacklist, dst_udp_kibit_rate_drop, dst_tcp_kibit_rate_drop, dst_icmp_kibit_rate_drop, dst_other_kibit_rate_drop, dst_port_undef_drop, dst_port_bl, dst_src_port_bl, dst_port_kbit_rate_exceed, dst_tcp_src_drop, dst_udp_src_drop, dst_icmp_src_drop, dst_other_src_drop, tcp_syn_rcvd, tcp_syn_ack_rcvd, tcp_ack_rcvd, tcp_fin_rcvd, tcp_rst_rcvd, ingress_bytes, egress_bytes, ingress_packets, egress_packets, tcp_fwd_recv, udp_fwd_recv, icmp_fwd_recv, tcp_syn_cookie_fail, dst_tcp_session_created, dst_udp_session_created, dst_tcp_filter_action_whitelist, dst_other_filter_match, dst_other_filter_not_match, dst_other_filter_action_blacklist, dst_other_filter_action_drop, dst_other_filter_action_whitelist, dst_other_filter_action_default_pass, dst_blackhole_inject, dst_blackhole_withdraw, dst_tcp_out_of_seq_excd, dst_tcp_retransmit_excd, dst_tcp_zero_window_excd, dst_tcp_conn_prate_excd, dst_tcp_action_on_ack_init, dst_tcp_action_on_ack_gap_drop, dst_tcp_action_on_ack_fail, dst_tcp_action_on_ack_pass, dst_tcp_action_on_syn_init, dst_tcp_action_on_syn_gap_drop, dst_tcp_action_on_syn_fail, dst_tcp_action_on_syn_pass, udp_payload_too_small, udp_payload_too_big, dst_udp_conn_prate_excd, dst_udp_ntp_monlist_req, dst_udp_ntp_monlist_resp, dst_udp_wellknown_sport_drop, dst_udp_retry_init, dst_udp_retry_pass, dst_tcp_bytes_drop, dst_udp_bytes_drop, dst_icmp_bytes_drop, dst_other_bytes_drop, dst_out_no_route, outbound_bytes_sent, outbound_pkt_drop, outbound_bytes_drop, outbound_pkt_sent, inbound_bytes_sent, inbound_bytes_drop, dst_src_port_pkt_rate_exceed, dst_src_port_kbit_rate_exceed, dst_src_port_conn_limit_exceed, dst_src_port_conn_rate_exceed, dst_ip_proto_pkt_rate_exceed, dst_ip_proto_kbit_rate_exceed, dst_tcp_port_any_exceed, dst_udp_port_any_exceed, dst_tcp_auth_pass, dst_tcp_rst_cookie_fail, dst_tcp_unauth_drop, src_tcp_syn_auth_fail, src_tcp_syn_cookie_sent, src_tcp_syn_cookie_fail, src_tcp_rst_cookie_fail, src_tcp_unauth_drop, src_tcp_action_on_syn_init

counters2

Description 'src_tcp_action_on_syn_gap_drop': Src TCP Auth: SYN Retry-Gap Dropped; 'src_tcp_action_on_syn_fail': Src TCP Auth: SYN Retry Dropped; 'src_tcp_action_on_ack_init': Src TCP Auth: ACK Retry Init; 'src_tcp_action_on_ack_gap_drop': Src TCP Auth: ACK Retry Retry-Gap Dropped; 'src_tcp_action_on_ack_fail': Src TCP Auth: ACK Retry Dropped; 'src_tcp_out_of_seq_excd': Src TCP Out-Of-Seq Exceeded; 'src_tcp_retransmit_excd': Src TCP Retransmit Exceeded; 'src_tcp_zero_window_excd': Src TCP Zero-Window Exceeded; 'src_tcp_conn_prate_excd': Src TCP Rate: Conn Pkt Exceeded; 'src_udp_min_payload': Src UDP Payload Too Small; 'src_udp_max_payload': Src UDP Payload Too Large; 'src_udp_conn_prate_excd': Src UDP Rate: Conn Pkt Exceeded; 'src_udp_ntp_monlist_req': Src UDP NTP Monlist Request; 'src_udp_ntp_monlist_resp': Src UDP NTP Monlist Response; 'src_udp_wellknown_sport_drop': Src UDP SrcPort Wellknown; 'src_udp_retry_init': Src UDP Auth: Retry Init; 'dst_udp_retry_gap_drop': UDP Auth: Retry-Gap Dropped; 'dst_udp_retry_fail': UDP Auth: Retry Timeout; 'dst_tcp_session_aged': TCP Sessions Aged; 'dst_udp_session_aged': UDP Sessions Aged; 'dst_tcp_conn_close': TCP Connections Closed; 'dst_tcp_conn_close_half_open': TCP Half Open Connections Closed; 'dst_l4_tcp_auth': TCP Dst L4-Type Auth: SYN Cookie Sent; 'tcp_l4_syn_cookie_fail': TCP Dst L4-Type Auth: SYN Cookie Failed; 'tcp_l4_rst_cookie_fail': TCP Dst L4-Type Auth: RST Cookie Failed; 'tcp_l4_unauth_drop': TCP Dst L4-Type Auth: Unauth Dropped; 'dst_drop_frag_pkt': Dst Fragmented Packets Dropped; 'src_tcp_filter_action_blacklist': Src TCP Filter Action Blacklist; 'src_tcp_filter_action_whitelist': Src TCP Filter Action WL; 'src_tcp_filter_action_drop': Src TCP Filter Action Drop; 'src_tcp_filter_action_default_pass': Src TCP Filter Action Default Pass; 'src_udp_filter_action_blacklist': Src UDP Filter Action Blacklist; 'src_udp_filter_action_whitelist': Src UDP Filter Action WL; 'src_udp_filter_action_drop': Src UDP Filter Action Drop; 'src_udp_filter_action_default_pass': Src UDP Filter Action Default Pass; 'src_other_filter_action_blacklist': Src OTHER Filter Action Blacklist; 'src_other_filter_action_whitelist': Src OTHER Filter Action WL; 'src_other_filter_action_drop': Src OTHER Filter Action Drop; 'src_other_filter_action_default_pass': Src OTHER Filter Action Default Pass; 'tcp_invalid_syn': TCP Invalid SYN Received; 'dst_tcp_conn_close_w_rst': TCP RST Connections Closed; 'dst_tcp_conn_close_w_fin': TCP FIN Connections Closed; 'dst_tcp_conn_close_w_idle': TCP Idle Connections Closed; 'dst_tcp_conn_create_from_syn': TCP Connections Created From SYN; 'dst_tcp_conn_create_from_ack': TCP Connections Created From ACK; 'src_frag_drop': Src Fragmented Packets Dropped; 'dst_l4_tcp_blacklist_drop': Dst L4-type TCP Blacklist Dropped; 'dst_l4_udp_blacklist_drop': Dst L4-type UDP Blacklist Dropped; 'dst_l4_icmp_blacklist_drop': Dst L4-type ICMP Blacklist Dropped; 'dst_l4_other_blacklist_drop': Dst L4-type OTHER Blacklist Dropped; 'src_l4_tcp_blacklist_drop': Src L4-type TCP Blacklist Dropped; 'src_l4_udp_blacklist_drop': Src L4-type UDP Blacklist Dropped; 'src_l4_icmp_blacklist_drop': Src L4-type ICMP Blacklist Dropped; 'src_l4_other_blacklist_drop': Src L4-type OTHER Blacklist Dropped; 'drop_frag_timeout_drop': Fragment Reassemble Timeout Drop; 'dst_port_kbit_rate_exceed_pkt': Port Rate: KiBit Pkt Exceeded; 'dst_tcp_bytes_rcv': TCP Total Bytes Received; 'dst_udp_bytes_rcv': UDP Total Bytes Received; 'dst_icmp_bytes_rcv': ICMP Total Bytes Received; 'dst_other_bytes_rcv': OTHER Total Bytes Received; 'dst_tcp_bytes_sent': TCP Total Bytes Forwarded; 'dst_udp_bytes_sent': UDP Total Bytes Forwarded; 'dst_icmp_bytes_sent': ICMP Total Bytes Forwarded; 'dst_other_bytes_sent': OTHER Total Bytes Forwarded; 'dst_udp_auth_drop': UDP Auth: Dropped; 'dst_tcp_auth_drop': TCP Auth: Dropped; 'dst_tcp_auth_resp': TCP Auth: Responded; 'inbound_pkt_drop': Inbound: Packets Dropped; 'dst_entry_pkt_rate_exceed': Entry Rate: Packet Exceeded; 'dst_entry_kbit_rate_exceed': Entry Rate: KiBit Exceeded; 'dst_entry_conn_limit_exceed': Entry Limit: Conn Exceeded; 'dst_entry_conn_rate_exceed':

Entry Rate: Conn Exceeded; 'dst_entry_frag_pkt_rate_exceed': Entry Rate: Frag Packet Exceeded; 'dst_icmp_any_exceed': ICMP Rate: Total Exceed; 'dst_other_any_exceed': OTHER Rate: Total Exceed; 'src_dst_pair_entry_total': Src-Dst Pair Entry Total Count; 'src_dst_pair_entry_udp': Src-Dst Pair Entry UDP Count; 'src_dst_pair_entry_tcp': Src-Dst Pair Entry TCP Count; 'src_dst_pair_entry_icmp': Src-Dst Pair Entry ICMP Count; 'src_dst_pair_entry_other': Src-Dst Pair Entry OTHER Count; 'dst_clist_overflow_policy_at_learning': Dst Src-Based Overflow Policy Hit; 'tcp_rexmit_syn_limit_drop': TCP SYN Retransmit Exceeded Drop; 'tcp_rexmit_syn_limit_bl': TCP SYN Retransmit Exceeded Blacklist; 'dst_tcp_wellknown_sport_drop': TCP SrcPort Wellknown; 'src_tcp_wellknown_sport_drop': Src TCP SrcPort Wellknown; 'dst_frag_rcvd': Fragmented Packets Received; 'no_policy_class_list_match': No Policy Class-list Match; 'src_udp_retry_gap_drop': Src UDP Auth: Retry-Gap Dropped; 'dst_entry_kbit_rate_exceed_count': Entry Rate: KiBit Exceeded Count; 'dst_port_undef_hit': Dst Port Undefined Hit; 'dst_tcp_action_on_ack_timeout': TCP Auth: ACK Retry Timeout; 'dst_tcp_action_on_ack_reset': TCP Auth: ACK Retry Timeout Reset; 'dst_tcp_action_on_ack_blacklist': TCP Auth: ACK Retry Timeout Blacklisted; 'src_tcp_action_on_ack_timeout': Src TCP Auth: ACK Retry Timeout; 'src_tcp_action_on_ack_reset': Src TCP Auth: ACK Retry Timeout Reset; 'src_tcp_action_on_ack_blacklist': Src TCP Auth: ACK Retry Timeout Blacklisted; 'dst_tcp_action_on_syn_timeout': TCP Auth: SYN Retry Timeout; 'dst_tcp_action_on_syn_reset': TCP Auth: SYN Retry Timeout Reset; 'dst_tcp_action_on_syn_blacklist': TCP Auth: SYN Retry Timeout Blacklisted; 'src_tcp_action_on_syn_timeout': Src TCP Auth: SYN Retry Timeout; 'src_tcp_action_on_syn_reset': Src TCP Auth: SYN Retry Timeout Reset; 'src_tcp_action_on_syn_blacklist': Src TCP Auth: SYN Retry Timeout Blacklisted; 'dst_udp_frag_pkt_rate_exceed': UDP Dst L4-Type Rate: Frag Exceeded; 'dst_udp_frag_src_rate_drop': UDP Src Rate: Frag Exceeded; 'dst_tcp_frag_pkt_rate_exceed': TCP Dst L4-Type Rate: Frag Exceeded; 'dst_tcp_frag_src_rate_drop': TCP Src Rate: Frag Exceeded; 'dst_icmp_frag_pkt_rate_exceed': ICMP Dst L4-Type Rate: Frag Exceeded; 'dst_icmp_frag_src_rate_drop': ICMP Src Rate: Frag Exceeded; 'sflow_internal_samples_packed': Sflow Internal Samples Packed; 'sflow_external_samples_packed': Sflow External Samples Packed; 'sflow_internal_packets_sent': Sflow Internal Packets Sent; 'sflow_external_packets_sent': Sflow External Packets Sent; 'dns_outbound_total_query': DNS Outbound Total Query; 'dns_outbound_query_malformed': DNS Outbound Query Malformed; 'dns_outbound_query_resp_chk_failed': DNS Outbound Query Resp Check Failed; 'dns_outbound_query_resp_chk_blacklisted': DNS Outbound Query Resp Check Blacklisted; 'dns_outbound_query_resp_chk_refused_sent': DNS Outbound Query Resp Check REFUSED Sent; 'dns_outbound_query_resp_chk_reset_sent': DNS Outbound Query Resp Check RESET Sent; 'dns_outbound_query_resp_chk_no_resp_sent': DNS Outbound Query Resp Check No Response Sent; 'dns_outbound_query_resp_size_exceed': DNS Outbound Query Response Size Exceed; 'dns_outbound_query_sess_timed_out': DNS Outbound Query Session Timed Out; 'dst_exceed_action_tunnel': Entry Exceed Action: Tunnel; 'src_udp_auth_timeout': Src UDP Auth: Retry Timeout; 'src_udp_retry_pass': Src UDP Retry Passed;

Type: string

Supported Values: src_tcp_action_on_syn_gap_drop, src_tcp_action_on_syn_fail, src_tcp_action_on_ack_init, src_tcp_action_on_ack_gap_drop, src_tcp_action_on_ack_fail, src_tcp_out_of_seq_excd, src_tcp_retransmit_excd, src_tcp_zero_window_excd, src_tcp_conn_prate_excd, src_udp_min_payload, src_udp_max_payload, src_udp_conn_prate_excd, src_udp_ntp_monlist_req,

src_udp_ntp_monlist_resp, src_udp_wellknown_sport_drop, src_udp_retry_init, dst_udp_retry_gap_drop, dst_udp_retry_fail, dst_tcp_session_aged, dst_udp_session_aged, dst_tcp_conn_close, dst_tcp_conn_close_half_open, dst_l4_tcp_auth, tcp_l4_syn_cookie_fail, tcp_l4_rst_cookie_fail, tcp_l4_unauth_drop, dst_drop_frag_pkt, src_tcp_filter_action_blacklist, src_tcp_filter_action_whitelist, src_tcp_filter_action_drop, src_tcp_filter_action_default_pass, src_udp_filter_action_blacklist, src_udp_filter_action_whitelist, src_udp_filter_action_drop, src_udp_filter_action_default_pass, src_other_filter_action_blacklist, src_other_filter_action_whitelist, src_other_filter_action_drop, src_other_filter_action_default_pass, tcp_invalid_syn, dst_tcp_conn_close_w_rst, dst_tcp_conn_close_w_fin, dst_tcp_conn_close_w_idle, dst_tcp_conn_create_from_syn, dst_tcp_conn_create_from_ack, src_frag_drop, dst_l4_tcp_blacklist_drop, dst_l4_udp_blacklist_drop, dst_l4_icmp_blacklist_drop, dst_l4_other_blacklist_drop, src_l4_tcp_blacklist_drop, src_l4_udp_blacklist_drop, src_l4_icmp_blacklist_drop, src_l4_other_blacklist_drop, drop_frag_timeout_drop, dst_port_kbit_rate_exceed_pkt, dst_tcp_bytes_rcv, dst_udp_bytes_rcv, dst_icmp_bytes_rcv, dst_other_bytes_rcv, dst_tcp_bytes_sent, dst_udp_bytes_sent, dst_icmp_bytes_sent, dst_other_bytes_sent, dst_udp_auth_drop, dst_tcp_auth_drop, dst_tcp_auth_resp, inbound_pkt_drop, dst_entry_pkt_rate_exceed, dst_entry_kbit_rate_exceed, dst_entry_conn_limit_exceed, dst_entry_conn_rate_exceed, dst_entry_frag_pkt_rate_exceed, dst_icmp_any_exceed, dst_other_any_exceed, src_dst_pair_entry_total, src_dst_pair_entry_udp, src_dst_pair_entry_tcp, src_dst_pair_entry_icmp, src_dst_pair_entry_other, dst_clist_overflow_policy_at_learning, tcp_rexmit_syn_limit_drop, tcp_rexmit_syn_limit_bl, dst_tcp_wellknown_sport_drop, src_tcp_wellknown_sport_drop, dst_frag_rcvd, no_policy_class_list_match, src_udp_retry_gap_drop, dst_entry_kbit_rate_exceed_count, dst_port_undef_hit, dst_tcp_action_on_ack_timeout, dst_tcp_action_on_ack_reset, dst_tcp_action_on_ack_blacklist, src_tcp_action_on_ack_timeout, src_tcp_action_on_ack_reset, src_tcp_action_on_ack_blacklist, dst_tcp_action_on_syn_timeout, dst_tcp_action_on_syn_reset, dst_tcp_action_on_syn_blacklist, src_tcp_action_on_syn_timeout, src_tcp_action_on_syn_reset, src_tcp_action_on_syn_blacklist, dst_udp_frag_pkt_rate_exceed, dst_udp_frag_src_rate_drop, dst_tcp_frag_pkt_rate_exceed, dst_tcp_frag_src_rate_drop, dst_icmp_frag_pkt_rate_exceed, dst_icmp_frag_src_rate_drop, sflow_internal_samples_packed, sflow_external_samples_packed, sflow_internal_packets_sent, sflow_external_packets_sent, dns_outbound_total_query, dns_outbound_query_malformed, dns_outbound_query_resp_chk_failed, dns_outbound_query_resp_chk_blacklisted, dns_outbound_query_resp_chk_refused_sent, dns_outbound_query_resp_chk_reset_sent, dns_outbound_query_resp_chk_no_resp_sent, dns_outbound_query_resp_size_exceed, dns_outbound_query_sess_timed_out, dst_exceed_action_tunnel, src_udp_auth_timeout, src_udp_retry_pass

counters3

Description 'dst_hw_drop_rule_insert': Dst Hardware Drop Rules Inserted; 'dst_hw_drop_rule_remove': Dst Hardware Drop Rules Removed; 'src_hw_drop_rule_insert': Src Hardware Drop Rules Inserted; 'src_hw_drop_rule_remove': Src Hardware Drop Rules Removed; 'prog_first_req_time_exceed': Req-Resp: First Request Time Exceed; 'prog_req_resp_time_exceed': Req-Resp: Request to Response Time Exceed; 'prog_request_len_exceed': Req-Resp: Request Length Exceed; 'prog_response_len_exceed': Req-Resp: Response Length Exceed; 'prog_resp_req_ratio_exceed': Req-Resp: Response to Request Ratio Exceed; 'prog_resp_req_time_exceed': Req-Resp: Response to Request Time Exceed; 'entry_sync_message_received': Entry Sync Message Received; 'entry_sync_message_sent': Entry Sync Message Sent; 'prog_conn_sent_exceed': Connection: Sent Exceed; 'prog_conn_rcvd_exceed': Connection: Received Exceed; 'prog_conn_time_exceed': Connection: Time Exceed; 'prog_conn_rcvd_sent_ratio_exceed':

Connection: Reveived to Sent Ratio Exceed; 'prog_win_sent_exceed': Time Window: Sent Exceed; 'prog_win_rcvd_exceed': Time Window: Received Exceed; 'prog_win_rcvd_sent_ratio_exceed': Time Window: Received to Sent Exceed; 'prog_exceed_drop': Req-Resp: Violation Exceed Dropped; 'prog_exceed_bl': Req-Resp: Violation Exceed Blacklisted; 'prog_conn_exceed_drop': Connection: Violation Exceed Dropped; 'prog_conn_exceed_bl': Connection: Violation Exceed Blacklisted; 'prog_win_exceed_drop': Time Window: Violation Exceed Dropped; 'prog_win_exceed_bl': Time Window: Violation Exceed Blacklisted; 'dst_exceed_action_drop': Entry Exceed Action: Dropped; 'prog_conn_samples': Sample Collected: Connection; 'prog_req_samples': Sample Collected: Req-Resp; 'prog_win_samples': Sample Collected: Time Window;

Type: string

Supported Values: dst_hw_drop_rule_insert, dst_hw_drop_rule_remove, src_hw_drop_rule_insert, src_hw_drop_rule_remove, prog_first_req_time_exceed, prog_req_resp_time_exceed, prog_request_len_exceed, prog_response_len_exceed, prog_resp_pkt_rate_exceed, prog_resp_req_time_exceed, entry_sync_message_received, entry_sync_message_sent, prog_conn_sent_exceed, prog_conn_rcvd_exceed, prog_conn_time_exceed, prog_conn_rcvd_sent_ratio_exceed, prog_win_sent_exceed, prog_win_rcvd_exceed, prog_win_rcvd_sent_ratio_exceed, prog_exceed_drop, prog_exceed_bl, prog_conn_exceed_drop, prog_conn_exceed_bl, prog_win_exceed_drop, prog_win_exceed_bl, dst_exceed_action_drop, src_hw_drop, dst_tcp_auth_rst, dst_src_learn_overflow, tcp_fwd_sent, udp_fwd_sent, prog_query_exceed, prog_think_exceed, prog_conn_samples, prog_req_samples, prog_win_samples, prog_conn_samples_processed, prog_req_samples_processed, prog_win_samples_processed, tcp_invalid_synack

entry-list_enable-top-k

Specification	Value
Type	*list*
Block object keys	

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-type

Description 'destination': Topk destination IP;

Type: string

Supported Values: destination

entry-list_exceed-log-dep-cfg

Specification	Value
Type	*object*

exceed-log-enable

Description (Deprecated)Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-with-sflow-dep

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

default-address-type

Description 'ip': ip; 'ipv6': ipv6;

Type: string

Supported Values: ip, ipv6

drop-disable

Description Disable certain drops during packet processing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-disable-fwd-immediate

Description Immediately forward L4 drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_exceed-log-cfg*

Type: Object

exceed-log-dep-cfg

Description: exceed-log-dep-cfg is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_exceed-log-dep-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

inbound-forward-dscp

Description To set dscp value for inbound packets (DSCP Value for the clear traffic marking)

Type: number

Range: 1-63

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/ip-proto/{port-num}*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

outbound-forward-dscp

Description To set dscp value for outbound

Type: number

Range: 1-63

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/port/{port-num}+{protocol}*

src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/src-port/{port-num}+{protocol}*

template

Description: template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-tcp': dns-tcp; 'dns-udp': dns-udp; 'http': http; 'tcp': tcp; 'udp': udp; 'ssl-l4': ssl-l4; 'sip-udp': sip-udp; 'sip-tcp': sip-tcp;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

template

Description: template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_port-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Protocol Number

Type: number

Range: 0-255

template

Description: template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_ip-proto-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_ip-proto-list_template

Specification	Value
Type	*object*

other

Description DDOS other template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

with-sflow-sample

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-overflow-policy-list_exceed-log-dep-cfg

Specification	Value
Type	*object*

exceed-log-enable

Description (Deprecated)Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-with-sflow-dep

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-overflow-policy-list_src-port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'udp': udp; 'tcp': tcp;

Type: string

Supported Values: udp, tcp

template

Description: template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_src-port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_src-port-list_template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-port-match

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow. Exceed action set to Drop

Type: number

Range: 1-6

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-client

Description Send reset to client when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-server

Description Send reset to server when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_l4-type-list_tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-overflow-policy-list_l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

dynamic-entry-overflow-policy-list_l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

dynamic-entry

Specification	Value
Type	*object*

all-entries

Description: all-entries is a **JSON Block**. Please see below for *dynamic-entry_all-entries*

Type: Object

Reference Object: */axapi/v3/ddos/dst/dynamic-entry/all-entries*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry_all-entries

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry_all-entries_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'dst_tcp_any_exceed': TCP Dst L4-Type Rate: Total Exceeded; 'dst_tcp_pkt_rate_exceed': TCP Dst L4-Type Rate: Packet Exceeded; 'dst_tcp_conn_rate_exceed': TCP Dst L4-Type Rate: Conn Exceeded; 'dst_udp_any_exceed': UDP Dst L4-Type Rate: Total Exceeded; 'dst_udp_pkt_rate_exceed': UDP Dst L4-Type Rate: Packet Exceeded; 'dst_udp_conn_limit_exceed': UDP Dst L4-Type Limit: Conn Exceeded; 'dst_udp_conn_rate_exceed': UDP Dst L4-Type Rate: Conn Exceeded; 'dst_icmp_pkt_rate_exceed': ICMP Dst Rate: Packet Exceeded; 'dst_other_pkt_rate_exceed': OTHER Dst L4-Type Rate: Packet Exceeded; 'dst_other_frag_pkt_rate_exceed': OTHER Dst L4-Type Rate: Frag Exceeded; 'dst_port_pkt_rate_exceed': Port Rate: Packet Exceeded; 'dst_port_conn_limit_exceed': Port Limit: Conn Exceeded; 'dst_port_conn_rate_exceed': Port Rate: Conn Exceeded; 'dst_pkt_sent': Inbound: Packets Forwarded; 'dst_udp_pkt_sent': UDP Total Packets Forwarded; 'dst_tcp_pkt_sent': TCP Total Packets Forwarded; 'dst_icmp_pkt_sent': ICMP Total Packets Forwarded; 'dst_other_pkt_sent': OTHER Total Packets Forwarded; 'dst_tcp_conn_limit_exceed': TCP Dst L4-Type Limit: Conn Exceeded; 'dst_tcp_pkt_rcvd': TCP Total Packets Received; 'dst_udp_pkt_rcvd': UDP Total Packets Received; 'dst_icmp_pkt_rcvd': ICMP Total Packets Received; 'dst_other_pkt_rcvd': OTHER Total Packets Received; 'dst_udp_filter_match': UDP Filter Match; 'dst_udp_filter_not_match': UDP Filter

Not Matched on Pkt; 'dst_udp_filter_action_blacklist': UDP Filter Action Blacklist; 'dst_udp_filter_action_drop': UDP Filter Action Drop; 'dst_tcp_syn': TCP Total SYN Received; 'dst_tcp_syn_drop': TCP SYN Packets Dropped; 'dst_tcp_src_rate_drop': TCP Src Rate: Total Exceeded; 'dst_udp_src_rate_drop': UDP Src Rate: Total Exceeded; 'dst_icmp_src_rate_drop': ICMP Src Rate: Total Exceeded; 'dst_other_frag_src_rate_drop': OTHER Src Rate: Frag Exceeded; 'dst_other_src_rate_drop': OTHER Src Rate: Total Exceeded; 'dst_tcp_drop': TCP Total Packets Dropped; 'dst_udp_drop': UDP Total Packets Dropped; 'dst_icmp_drop': ICMP Total Packets Dropped; 'dst_frag_drop': Fragmented Packets Dropped; 'dst_other_drop': OTHER Total Packets Dropped; 'dst_tcp_auth': TCP Auth: SYN Cookie Sent; 'dst_udp_filter_action_default_pass': UDP Filter Action Default Pass; 'dst_tcp_filter_match': TCP Filter Match; 'dst_tcp_filter_not_match': TCP Filter Not Matched on Pkt; 'dst_tcp_filter_action_blacklist': TCP Filter Action Blacklist; 'dst_tcp_filter_action_drop': TCP Filter Action Drop; 'dst_tcp_filter_action_default_pass': TCP Filter Action Default Pass; 'dst_udp_filter_action_whitelist': UDP Filter Action WL; 'dst_over_limit_on': DST overlimit Trigger ON; 'dst_over_limit_off': DST overlimit Trigger OFF; 'dst_port_over_limit_on': DST port overlimit Trigger ON; 'dst_port_over_limit_off': DST port overlimit Trigger OFF; 'dst_over_limit_action': DST overlimit action; 'dst_port_over_limit_action': DST port overlimit action; 'scanning_detected_drop': Scanning Detected drop (deprecated); 'scanning_detected_blacklist': Scanning Detected blacklist (deprecated); 'dst_udp_kibit_rate_drop': UDP Dst L4-Type Rate: KiBit Exceeded; 'dst_tcp_kibit_rate_drop': TCP Dst L4-Type Rate: KiBit Exceeded; 'dst_icmp_kibit_rate_drop': ICMP Dst Rate: KiBit Exceeded; 'dst_other_kibit_rate_drop': OTHER Dst L4-Type Rate: KiBit Exceeded; 'dst_port_undef_drop': Dst Port Undefined Dropped; 'dst_port_bl': Dst Port Blacklist Packets Dropped; 'dst_src_port_bl': Dst Src-Port Blacklist Packets Dropped; 'dst_port_kbit_rate_exceed': Port Rate: KiBit Exceeded; 'dst_tcp_src_drop': TCP Src Packets Dropped; 'dst_udp_src_drop': UDP Src Packets Dropped; 'dst_icmp_src_drop': ICMP Src Packets Dropped; 'dst_other_src_drop': OTHER Src Packets Dropped; 'tcp_syn_rcvd': TCP Inbound SYN Received; 'tcp_syn_ack_rcvd': TCP SYN ACK Received; 'tcp_ack_rcvd': TCP ACK Received; 'tcp_fin_rcvd': TCP FIN Received; 'tcp_rst_rcvd': TCP RST Received; 'ingress_bytes': Inbound: Bytes Received; 'egress_bytes': Outbound: Bytes Received; 'ingress_packets': Inbound: Packets Received; 'egress_packets': Outbound: Packets Received; 'tcp_fwd_recv': TCP Inbound Packets Received; 'udp_fwd_recv': UDP Inbound Packets Received; 'icmp_fwd_recv': ICMP Inbound Packets Received; 'tcp_syn_cookie_fail': TCP Auth: SYN Cookie Failed; 'dst_tcp_session_created': TCP Sessions Created; 'dst_udp_session_created': UDP Sessions Created; 'dst_tcp_filter_action_whitelist': TCP Filter Action WL; 'dst_other_filter_match': OTHER Filter Match; 'dst_other_filter_not_match': OTHER Filter Not Matched on Pkt; 'dst_other_filter_action_blacklist': OTHER Filter Action Blacklist; 'dst_other_filter_action_drop': OTHER Filter Action Drop; 'dst_other_filter_action_whitelist': OTHER Filter Action WL; 'dst_other_filter_action_default_pass': OTHER Filter Action Default Pass; 'dst_blackhole_inject': Dst Blackhole Inject; 'dst_blackhole_withdraw': Dst Blackhole Withdraw; 'dst_tcp_out_of_seq_excd': TCP Out-Of-Seq Exceeded; 'dst_tcp_retransmit_excd': TCP Retransmit Exceeded; 'dst_tcp_zero_window_excd': TCP Zero-Window Exceeded; 'dst_tcp_conn_prate_excd': TCP Rate: Conn Pkt Exceeded; 'dst_tcp_action_on_ack_init': TCP Auth: ACK Retry Init; 'dst_tcp_action_on_ack_gap_drop': TCP Auth: ACK Retry Retry-Gap Dropped; 'dst_tcp_action_on_ack_fail': TCP Auth: ACK Retry Dropped; 'dst_tcp_action_on_ack_pass': TCP Auth: ACK Retry Passed; 'dst_tcp_action_on_syn_init': TCP Auth: SYN Retry Init; 'dst_tcp_action_on_syn_gap_drop': TCP Auth: SYN Retry-Gap Dropped; 'dst_tcp_action_on_syn_fail': TCP Auth: SYN Retry Dropped; 'dst_tcp_action_on_syn_pass': TCP Auth: SYN Retry Passed; 'udp_payload_too_small': UDP Payload Too Small; 'udp_payload_too_big': UDP Payload Too Large; 'dst_udp_conn_prate_excd': UDP Rate: Conn Pkt Exceeded; 'dst_udp_ntp_monlist_req': UDP NTP Monlist Request; 'dst_udp_ntp_monlist_resp': UDP NTP Monlist Response;

'dst_udp_wellknown_sport_drop': UDP SrcPort Wellknown; 'dst_udp_retry_init': UDP Auth: Retry Init; 'dst_udp_retry_pass': UDP Auth: Retry Passed; 'dst_tcp_bytes_drop': TCP Total Bytes Dropped; 'dst_udp_bytes_drop': UDP Total Bytes Dropped; 'dst_icmp_bytes_drop': ICMP Total Bytes Dropped; 'dst_other_bytes_drop': OTHER Total Bytes Dropped; 'dst_out_no_route': Dst IPv4/v6 Out No Route; 'outbound_bytes_sent': Outbound: Bytes Forwarded; 'outbound_pkt_drop': Outbound: Packets Dropped; 'outbound_bytes_drop': Outbound: Bytes Dropped; 'outbound_pkt_sent': Outbound: Packets Forwarded; 'inbound_bytes_sent': Inbound: Bytes Forwarded; 'inbound_bytes_drop': Inbound: Bytes Dropped; 'dst_src_port_pkt_rate_exceed': SrcPort Rate: Packet Exceeded; 'dst_src_port_kbit_rate_exceed': SrcPort Rate: KiBit Exceeded; 'dst_src_port_conn_limit_exceed': SrcPort Limit: Conn Exceeded; 'dst_src_port_conn_rate_exceed': SrcPort Rate: Conn Exceeded; 'dst_ip_proto_pkt_rate_exceed': IP-Proto Rate: Packet Exceeded; 'dst_ip_proto_kbit_rate_exceed': IP-Proto Rate: KiBit Exceeded; 'dst_tcp_port_any_exceed': TCP Port Rate: Total Exceed; 'dst_udp_port_any_exceed': UDP Port Rate: Total Exceed; 'dst_tcp_auth_pass': TCP Auth: SYN Auth Passed; 'dst_tcp_rst_cookie_fail': TCP Auth: RST Cookie Failed; 'dst_tcp_unauth_drop': TCP Auth: Unauth Dropped; 'src_tcp_syn_auth_fail': Src TCP Auth: SYN Auth Failed; 'src_tcp_syn_cookie_sent': Src TCP Auth: SYN Cookie Sent; 'src_tcp_syn_cookie_fail': Src TCP Auth: SYN Cookie Failed; 'src_tcp_rst_cookie_fail': Src TCP Auth: RST Cookie Failed; 'src_tcp_unauth_drop': Src TCP Auth: Unauth Dropped; 'src_tcp_action_on_syn_init': Src TCP Auth: SYN Retry Init;

Type: string

Supported Values: all, dst_tcp_any_exceed, dst_tcp_pkt_rate_exceed, dst_tcp_conn_rate_exceed, dst_udp_any_exceed, dst_udp_pkt_rate_exceed, dst_udp_conn_limit_exceed, dst_udp_conn_rate_exceed, dst_icmp_pkt_rate_exceed, dst_other_pkt_rate_exceed, dst_other_frag_pkt_rate_exceed, dst_port_pkt_rate_exceed, dst_port_conn_limit_exceed, dst_port_conn_rate_exceed, dst_pkt_sent, dst_udp_pkt_sent, dst_tcp_pkt_sent, dst_icmp_pkt_sent, dst_other_pkt_sent, dst_tcp_conn_limit_exceed, dst_tcp_pkt_rcvd, dst_udp_pkt_rcvd, dst_icmp_pkt_rcvd, dst_other_pkt_rcvd, dst_udp_filter_match, dst_udp_filter_not_match, dst_udp_filter_action_blacklist, dst_udp_filter_action_drop, dst_tcp_syn, dst_tcp_syn_drop, dst_tcp_src_rate_drop, dst_udp_src_rate_drop, dst_icmp_src_rate_drop, dst_other_frag_src_rate_drop, dst_other_src_rate_drop, dst_tcp_drop, dst_udp_drop, dst_icmp_drop, dst_frag_drop, dst_other_drop, dst_tcp_auth, dst_udp_filter_action_default_pass, dst_tcp_filter_match, dst_tcp_filter_not_match, dst_tcp_filter_action_blacklist, dst_tcp_filter_action_drop, dst_tcp_filter_action_default_pass, dst_udp_filter_action_whitelist, dst_over_limit_on, dst_over_limit_off, dst_port_over_limit_on, dst_port_over_limit_off, dst_over_limit_action, dst_port_over_limit_action, scanning_detected_drop, scanning_detected_blacklist, dst_udp_kibit_rate_drop, dst_tcp_kibit_rate_drop, dst_icmp_kibit_rate_drop, dst_other_kibit_rate_drop, dst_port_undef_drop, dst_port_bl, dst_src_port_bl, dst_port_kbit_rate_exceed, dst_tcp_src_drop, dst_udp_src_drop, dst_icmp_src_drop, dst_other_src_drop, tcp_syn_rcvd, tcp_syn_ack_rcvd, tcp_ack_rcvd, tcp_fin_rcvd, tcp_rst_rcvd, ingress_bytes, egress_bytes, ingress_packets, egress_packets, tcp_fwd_recv, udp_fwd_recv, icmp_fwd_recv, tcp_syn_cookie_fail, dst_tcp_session_created, dst_udp_session_created, dst_tcp_filter_action_whitelist, dst_other_filter_match, dst_other_filter_not_match, dst_other_filter_action_blacklist, dst_other_filter_action_drop, dst_other_filter_action_whitelist, dst_other_filter_action_default_pass, dst_blackhole_inject, dst_blackhole_withdraw, dst_tcp_out_of_seq_excd, dst_tcp_retransmit_excd, dst_tcp_zero_window_excd, dst_tcp_conn_prate_excd, dst_tcp_action_on_ack_init, dst_tcp_action_on_ack_gap_drop, dst_tcp_action_on_ack_fail, dst_tcp_action_on_ack_pass, dst_tcp_action_on_syn_init, dst_tcp_action_on_syn_gap_drop, dst_tcp_action_on_syn_fail, dst_tcp_action_on_syn_pass, udp_payload_too_small, udp_payload_too_big, dst_udp_conn_prate_excd, dst_udp_ntp_monlist_req,

dst_udp_ntp_monlist_resp, dst_udp_wellknown_sport_drop, dst_udp_retry_init, dst_udp_retry_pass, dst_tcp_bytes_drop, dst_udp_bytes_drop, dst_icmp_bytes_drop, dst_other_bytes_drop, dst_out_no_route, outbound_bytes_sent, outbound_pkt_drop, outbound_bytes_drop, outbound_pkt_sent, inbound_bytes_sent, inbound_bytes_drop, dst_src_port_pkt_rate_exceed, dst_src_port_kbit_rate_exceed, dst_src_port_conn_limit_exceed, dst_src_port_conn_rate_exceed, dst_ip_proto_pkt_rate_exceed, dst_ip_proto_kbit_rate_exceed, dst_tcp_port_any_exceed, dst_udp_port_any_exceed, dst_tcp_auth_pass, dst_tcp_rst_cookie_fail, dst_tcp_unauth_drop, src_tcp_syn_auth_fail, src_tcp_syn_cookie_sent, src_tcp_syn_cookie_fail, src_tcp_rst_cookie_fail, src_tcp_unauth_drop, src_tcp_action_on_syn_init

counters2

Description 'src_tcp_action_on_syn_gap_drop': Src TCP Auth: SYN Retry-Gap Dropped; 'src_tcp_action_on_syn_fail': Src TCP Auth: SYN Retry Dropped; 'src_tcp_action_on_ack_init': Src TCP Auth: ACK Retry Init; 'src_tcp_action_on_ack_gap_drop': Src TCP Auth: ACK Retry Retry-Gap Dropped; 'src_tcp_action_on_ack_fail': Src TCP Auth: ACK Retry Dropped; 'src_tcp_out_of_seq_excd': Src TCP Out-Of-Seq Exceeded; 'src_tcp_retransmit_excd': Src TCP Retransmit Exceeded; 'src_tcp_zero_window_excd': Src TCP Zero-Window Exceeded; 'src_tcp_conn_prate_excd': Src TCP Rate: Conn Pkt Exceeded; 'src_udp_min_payload': Src UDP Payload Too Small; 'src_udp_max_payload': Src UDP Payload Too Large; 'src_udp_conn_prate_excd': Src UDP Rate: Conn Pkt Exceeded; 'src_udp_ntp_monlist_req': Src UDP NTP Monlist Request; 'src_udp_ntp_monlist_resp': Src UDP NTP Monlist Response; 'src_udp_wellknown_sport_drop': Src UDP SrcPort Wellknown; 'src_udp_retry_init': Src UDP Auth: Retry Init; 'dst_udp_retry_gap_drop': UDP Auth: Retry-Gap Dropped; 'dst_udp_retry_fail': UDP P Sessions Aged; 'dst_tcp_session_aged': TCP Sessions Aged; 'dst_udp_session_aged': UDP Sessions Aged; 'dst_tcp_conn_close': TCP Connections Closed; 'dst_tcp_conn_close_half_open': TCP Half Open Connections Closed; 'dst_l4_tcp_auth': TCP Dst L4-Type Auth: SYN Cookie Sent; 'tcp_l4_syn_cookie_fail': TCP Dst L4-Type Auth: SYN Cookie Failed; 'tcp_l4_rst_cookie_fail': TCP Dst L4-Type Auth: RST Cookie Failed; 'tcp_l4_unauth_drop': TCP Dst L4-Type Auth: Unauth Dropped; 'dst_drop_frag_pkt': Dst Fragmented Packets Dropped; 'src_tcp_filter_action_blacklist': Src TCP Filter Action Blacklist; 'src_tcp_filter_action_whitelist': Src TCP Filter Action WL; 'src_tcp_filter_action_drop': Src TCP Filter Action Drop; 'src_tcp_filter_action_default_pass': Src TCP Filter Action Default Pass; 'src_udp_filter_action_blacklist': Src UDP Filter Action Blacklist; 'src_udp_filter_action_whitelist': Src UDP Filter Action WL; 'src_udp_filter_action_drop': Src UDP Filter Action Drop; 'src_udp_filter_action_default_pass': Src UDP Filter Action Default Pass; 'src_other_filter_action_blacklist': Src OTHER Filter Action Blacklist; 'src_other_filter_action_whitelist': Src OTHER Filter Action WL; 'src_other_filter_action_drop': Src OTHER Filter Action Drop; 'src_other_filter_action_default_pass': Src OTHER Filter Action Default Pass; 'tcp_invalid_syn': TCP Invalid SYN Received; 'dst_tcp_conn_close_w_rst': TCP RST Connections Closed; 'dst_tcp_conn_close_w_fin': TCP FIN Connections Closed; 'dst_tcp_conn_close_w_idle': TCP Idle Connections Closed; 'dst_tcp_conn_create_from_syn': TCP Connections Created From SYN; 'dst_tcp_conn_create_from_ack': TCP Connections Created From ACK; 'src_frag_drop': Src Fragmented Packets Dropped; 'dst_l4_tcp_blacklist_drop': Dst L4-type TCP Blacklist Dropped; 'dst_l4_udp_blacklist_drop': Dst L4-type UDP Blacklist Dropped; 'dst_l4_icmp_blacklist_drop': No Policy Class-list Match; 'dst_l4_other_blacklist_drop': Dst L4-type OTHER Blacklist Dropped; 'src_l4_tcp_blacklist_drop': Src L4-type TCP Blacklist Dropped; 'src_l4_udp_blacklist_drop': Src L4-type UDP Blacklist Dropped; 'src_l4_icmp_blacklist_drop': Src L4-type ICMP Blacklist Dropped; 'src_l4_other_blacklist_drop': Src L4-type OTHER Blacklist

Dropped; 'drop_frag_timeout_drop': Fragment Reassemble Timeout Drop; 'dst_port_kbit_rate_exceed_pkt': Port Rate: KiBit Pkt Exceeded; 'dst_tcp_bytes_rcv': TCP Total Bytes Received; 'dst_udp_bytes_rcv': UDP Total Bytes Received; 'dst_icmp_bytes_rcv': ICMP Total Bytes Received; 'dst_other_bytes_rcv': OTHER Total Bytes Received; 'dst_tcp_bytes_sent': TCP Total Bytes Forwarded; 'dst_udp_bytes_sent': UDP Total Bytes Forwarded; 'dst_icmp_bytes_sent': ICMP Total Bytes Forwarded; 'dst_other_bytes_sent': OTHER Total Bytes Forwarded; 'dst_udp_auth_drop': UDP Auth: Dropped; 'dst_tcp_auth_drop': TCP Auth: Dropped; 'dst_tcp_auth_resp': TCP Auth: Responded; 'inbound_pkt_drop': Inbound: Packets Dropped; 'dst_entry_pkt_rate_exceed': Entry Rate: Packet Exceeded; 'dst_entry_kbit_rate_exceed': Entry Rate: KiBit Exceeded; 'dst_entry_conn_limit_exceed': Entry Limit: Conn Exceeded; 'dst_entry_conn_rate_exceed': Entry Rate: Conn Exceeded; 'dst_entry_frag_pkt_rate_exceed': Entry Rate: Frag Packet Exceeded; 'dst_icmp_any_exceed': ICMP Rate: Total Exceed; 'dst_other_any_exceed': OTHER Rate: Total Exceed; 'src_dst_pair_entry_total': Src-Dst Pair Entry Total Count; 'src_dst_pair_entry_udp': Src-Dst Pair Entry UDP Count; 'src_dst_pair_entry_tcp': Src-Dst Pair Entry TCP Count; 'src_dst_pair_entry_icmp': Src-Dst Pair Entry ICMP Count; 'src_dst_pair_entry_other': Src-Dst Pair Entry OTHER Count; 'dst_clist_overflow_policy_at_learning': Dst Src-Based Overflow Policy Hit; 'tcp_rexmit_syn_limit_drop': TCP SYN Retransmit Exceeded Drop; 'tcp_rexmit_syn_limit_bl': TCP SYN Retransmit Exceeded Blacklist; 'dst_tcp_wellknown_sport_drop': TCP SrcPort Wellknown; 'src_tcp_wellknown_sport_drop': Src TCP SrcPort Wellknown; 'dst_frag_rcvd': Fragmented Packets Received; 'no_policy_class_list_match': No Policy Class-list Match; 'src_udp_retry_gap_drop': Src UDP Auth: Retry-Gap Dropped; 'dst_entry_kbit_rate_exceed_count': Entry Rate: KiBit Exceeded Count; 'dst_port_undef_hit': Dst Port Undefined Hit; 'dst_tcp_action_on_ack_timeout': TCP Auth: ACK Retry Timeout; 'dst_tcp_action_on_ack_reset': TCP Auth: ACK Retry Timeout Reset; 'dst_tcp_action_on_ack_blacklist': TCP Auth: ACK Retry Timeout Blacklisted; 'src_tcp_action_on_ack_timeout': Src TCP Auth: ACK Retry Timeout; 'src_tcp_action_on_ack_reset': Src TCP Auth: ACK Retry Timeout Reset; 'src_tcp_action_on_ack_blacklist': Src TCP Auth: ACK Retry Timeout Blacklisted; 'dst_tcp_action_on_syn_timeout': TCP Auth: SYN Retry Timeout; 'dst_tcp_action_on_syn_reset': TCP Auth: SYN Retry Timeout Reset; 'dst_tcp_action_on_syn_blacklist': TCP Auth: SYN Retry Timeout Blacklisted; 'src_tcp_action_on_syn_timeout': Src TCP Auth: SYN Retry Timeout; 'src_tcp_action_on_syn_reset': Src TCP Auth: SYN Retry Timeout Reset; 'src_tcp_action_on_syn_blacklist': Src TCP Auth: SYN Retry Timeout Blacklisted; 'dst_udp_frag_pkt_rate_exceed': UDP Dst L4-Type Rate: Frag Exceeded; 'dst_udp_frag_src_rate_drop': UDP Src Rate: Frag Exceeded; 'dst_tcp_frag_pkt_rate_exceed': TCP Dst L4-Type Rate: Frag Exceeded; 'dst_tcp_frag_src_rate_drop': TCP Src Rate: Frag Exceeded; 'dst_icmp_frag_pkt_rate_exceed': ICMP Dst L4-Type Rate: Frag Exceeded; 'dst_icmp_frag_src_rate_drop': ICMP Src Rate: Frag Exceeded; 'sflow_internal_samples_packed': Sflow Internal Samples Packed; 'sflow_external_samples_packed': Sflow External Samples Packed; 'sflow_internal_packets_sent': Sflow Internal Packets Sent; 'sflow_external_packets_sent': Sflow External Packets Sent; 'dns_outbound_total_query': DNS Outbound Total Query; 'dns_outbound_query_malformed': DNS Outbound Query Malformed; 'dns_outbound_query_resp_chk_failed': DNS Outbound Query Resp Check Failed; 'dns_outbound_query_resp_chk_blacklisted': DNS Outbound Query Resp Check Blacklisted; 'dns_outbound_query_resp_chk_refused_sent': DNS Outbound Query Resp Check REFUSED Sent; 'dns_outbound_query_resp_chk_reset_sent': DNS Outbound Query Resp Check RESET Sent; 'dns_outbound_query_resp_chk_no_resp_sent': DNS Outbound Query Resp Check No Response Sent; 'dns_outbound_query_resp_size_exceed': DNS Outbound

Query Response Size Exceed; 'dns_outbound_query_sess_timed_out': DNS Outbound Query Session Timed Out; 'dst_exceed_action_tunnel': Entry Exceed Action: Tunnel; 'src_udp_auth_timeout': Src UDP Auth: Retry Timeout; 'src_udp_retry_pass': Src UDP Retry Passed;

Type: string

Supported Values: src_tcp_action_on_syn_gap_drop, src_tcp_action_on_syn_fail, src_tcp_action_on_ack_init, src_tcp_action_on_ack_gap_drop, src_tcp_action_on_ack_fail, src_tcp_out_of_seq_excd, src_tcp_retransmit_excd, src_tcp_zero_window_excd, src_tcp_conn_prate_excd, src_udp_min_payload, src_udp_max_payload, src_udp_conn_prate_excd, src_udp_ntp_monlist_req, src_udp_ntp_monlist_resp, src_udp_wellknown_sport_drop, src_udp_retry_init, dst_udp_retry_gap_drop, dst_udp_retry_fail, dst_tcp_session_aged, dst_udp_session_aged, dst_tcp_conn_close, dst_tcp_conn_close_half_open, dst_l4_tcp_auth, tcp_l4_syn_cookie_fail, tcp_l4_rst_cookie_fail, tcp_l4_unauth_drop, dst_drop_frag_pkt, src_tcp_filter_action_blacklist, src_tcp_filter_action_whitelist, src_tcp_filter_action_drop, src_tcp_filter_action_default_pass, src_udp_filter_action_blacklist, src_udp_filter_action_whitelist, src_udp_filter_action_drop, src_udp_filter_action_default_pass, src_other_filter_action_blacklist, src_other_filter_action_whitelist, src_other_filter_action_drop, src_other_filter_action_default_pass, tcp_invalid_syn, dst_tcp_conn_close_w_rst, dst_tcp_conn_close_w_fin, dst_tcp_conn_close_w_idle, dst_tcp_conn_create_from_syn, dst_tcp_conn_create_from_ack, src_frag_drop, dst_l4_tcp_blacklist_drop, dst_l4_udp_blacklist_drop, dst_l4_icmp_blacklist_drop, dst_l4_other_blacklist_drop, src_l4_tcp_blacklist_drop, src_l4_udp_blacklist_drop, src_l4_icmp_blacklist_drop, src_l4_other_blacklist_drop, drop_frag_timeout_drop, dst_port_kbit_rate_exceed_pkt, dst_tcp_bytes_rcv, dst_udp_bytes_rcv, dst_icmp_bytes_rcv, dst_other_bytes_rcv, dst_tcp_bytes_sent, dst_udp_bytes_sent, dst_icmp_bytes_sent, dst_other_bytes_sent, dst_udp_auth_drop, dst_tcp_auth_drop, dst_tcp_auth_resp, inbound_pkt_drop, dst_entry_pkt_rate_exceed, dst_entry_kbit_rate_exceed, dst_entry_conn_limit_exceed, dst_entry_conn_rate_exceed, dst_entry_frag_pkt_rate_exceed, dst_icmp_any_exceed, dst_other_any_exceed, src_dst_pair_entry_total, src_dst_pair_entry_udp, src_dst_pair_entry_tcp, src_dst_pair_entry_icmp, src_dst_pair_entry_other, dst_clist_overflow_policy_at_learning, tcp_rexmit_syn_limit_drop, tcp_rexmit_syn_limit_bl, dst_tcp_wellknown_sport_drop, src_tcp_wellknown_sport_drop, dst_frag_rcvd, no_policy_class_list_match, src_udp_retry_gap_drop, dst_entry_kbit_rate_exceed_count, dst_port_undef_hit, dst_tcp_action_on_ack_timeout, dst_tcp_action_on_ack_reset, dst_tcp_action_on_ack_blacklist, src_tcp_action_on_ack_timeout, src_tcp_action_on_ack_reset, src_tcp_action_on_ack_blacklist, dst_tcp_action_on_syn_timeout, dst_tcp_action_on_syn_reset, dst_tcp_action_on_syn_blacklist, src_tcp_action_on_syn_timeout, src_tcp_action_on_syn_reset, src_tcp_action_on_syn_blacklist, dst_udp_frag_pkt_rate_exceed, dst_udp_frag_src_rate_drop, dst_tcp_frag_pkt_rate_exceed, dst_tcp_frag_src_rate_drop, dst_icmp_frag_pkt_rate_exceed, dst_icmp_frag_src_rate_drop, sflow_internal_samples_packed, sflow_external_samples_packed, sflow_internal_packets_sent, sflow_external_packets_sent, dns_outbound_total_query, dns_outbound_query_malformed, dns_outbound_query_resp_chk_failed, dns_outbound_query_resp_chk_blacklisted, dns_outbound_query_resp_chk_refused_sent, dns_outbound_query_resp_chk_reset_sent, dns_outbound_query_resp_chk_no_resp_sent, dns_outbound_query_resp_size_exceed, dns_outbound_query_sess_timed_out, dst_exceed_action_tunnel, src_udp_auth_timeout, src_udp_retry_pass

counters3

Description 'dst_hw_drop_rule_insert': Dst Hardware Drop Rules Inserted;

'dst_hw_drop_rule_remove': Dst Hardware Drop Rules Removed; 'src_hw_drop_rule_insert': Src Hardware Drop Rules Inserted; 'src_hw_drop_rule_remove': Src Hardware Drop Rules Removed; 'prog_first_req_time_exceed': Req-Resp: First Request Time Exceed; 'prog_req_resp_time_exceed': Req-Resp: Request to Response Time Exceed; 'prog_request_len_exceed': Req-Resp: Request Length Exceed; 'prog_response_len_exceed': Req-Resp: Response Length Exceed; 'prog_resp_pkt_rate_exceed': Req-Resp: Response Packet Rate Exceed; 'prog_resp_req_time_exceed': Req-Resp: Response to Request Time Exceed; 'entry_sync_message_received': Entry Sync Message Received; 'entry_sync_message_sent': Entry Sync Message Sent; 'prog_conn_sent_exceed': Connection: Sent Exceed; 'prog_conn_rcvd_exceed': Connection: Received Exceed; 'prog_conn_time_exceed': Connection: Time Exceed; 'prog_conn_rcvd_sent_ratio_exceed': Connection: Reveived to Sent Ratio Exceed; 'prog_win_sent_exceed': Time Window: Sent Exceed; 'prog_win_rcvd_exceed': Time Window: Received Exceed; 'prog_win_rcvd_sent_ratio_exceed': Time Window: Received to Sent Exceed; 'prog_exceed_drop': Req-Resp: Violation Exceed Dropped; 'prog_exceed_bl': Req-Resp: Violation Exceed Blacklisted; 'prog_conn_exceed_drop': Connection: Violation Exceed Dropped; 'prog_conn_exceed_bl': Connection: Violation Exceed Blacklisted; 'prog_win_exceed_drop': Time Window: Violation Exceed Dropped; 'prog_win_exceed_bl': Time Window: Violation Exceed Blacklisted; 'dst_exceed_action_drop': Entry Exceed Action: Dropped; 'src_hw_drop': Src Hardware Packets Dropped; 'dst_tcp_auth_rst': TCP Auth: Reset; 'dst_src_learn_overflow': Src Dynamic Entry Count Overflow; 'tcp_fwd_sent': TCP Inbound Packets Forwarded; 'udp_fwd_sent': UDP Inbound Packets Forwarded; 'prog_query_exceed': Req-Resp: Client Query Time Exceed; 'prog_think_exceed': Req-Resp: Server Think Time Exceed;

Type: string

Supported Values: dst_hw_drop_rule_insert, dst_hw_drop_rule_remove, src_hw_drop_rule_insert, src_hw_drop_rule_remove, prog_first_req_time_exceed, prog_req_resp_time_exceed, prog_request_len_exceed, prog_response_len_exceed, prog_resp_pkt_rate_exceed, prog_resp_req_time_exceed, entry_sync_message_received, entry_sync_message_sent, prog_conn_sent_exceed, prog_conn_rcvd_exceed, prog_conn_time_exceed, prog_conn_rcvd_sent_ratio_exceed, prog_win_sent_exceed, prog_win_rcvd_exceed, prog_win_rcvd_sent_ratio_exceed, prog_exceed_drop, prog_exceed_bl, prog_conn_exceed_drop, prog_conn_exceed_bl, prog_win_exceed_drop, prog_win_exceed_bl, dst_exceed_action_drop, src_hw_drop, dst_tcp_auth_rst, dst_src_learn_overflow, tcp_fwd_sent, udp_fwd_sent, prog_query_exceed, prog_think_exceed

zone-list

Specification	Value
Type	*list*
Block object keys	

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

advertised-enable

Description BGP advertised

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/capture-config/{name}*

collector

Type: List

continuous-learning

Description Continuous learning of detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

description

Description Description for this Destination Zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dest-nat-ip

Description Destination NAT IP address

Type: string

Format: ipv4-address

dest-nat-ipv6

Description Destination NAT IPv6 address

Type: string

Format: ipv6-address

detection

Description: detection is a **JSON Block**. Please see below for *zone-list_detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection*

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Type: List

force-operational-mode

Description Force configure operational mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

hw-blacklist-blocking

Description: hw-blacklist-blocking is a **JSON Block**. Please see below for *zone-list_hw-blacklist-blocking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/hw-blacklist-blocking*

inbound-forward-dscp

Description To set dscp value for inbound packets (DSCP Value for the clear traffic marking)

Type: number

Range: 1-63

ip

Type: List

ip-proto

Description: ip-proto is a **JSON Block**. Please see below for *zone-list_ip-proto*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto*

ipv6

Type: List

is-from-wizard

Description Is It Created from Onbox GUI Wizard

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-high-frequency

Description Enable High frequency logging for non-event logs per zone

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

non-restrictive

Description Non-restrictive mode ignores Zero Thresholds Indicators

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

operational-mode

Description 'idle': Idle mode; 'monitor': Monitor mode; 'learning': Learning mode;

Type: string

Supported Values: idle, monitor, learning

Default: idle

outbound-forward-dscp

Description To set dscp value for outbound

Type: number

Range: 1-63

outbound-policy

Description: outbound-policy is a **JSON Block**. Please see below for *zone-list_outbound-policy*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy*

packet-anomaly-detection

Description: packet-anomaly-detection is a **JSON Block**. Please see below for *zone-list_packet-anomaly-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection*

pattern-recognition-hw-filter-enable

Description to enable pattern recognition hardware filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition-sensitivity

Description 'high': High sensitive pattern recognition; 'medium': Medium sensitive pattern recognition; 'low': Low sensitive pattern recognition;

Type: string

Supported Values: high, medium, low

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port

Description: port is a **JSON Block**. Please see below for *zone-list_port*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}*

rate-limit

Description Rate limit per second per zone(Default : 1 per second)

Type: number

Range: 1-1000

Default: 1

reporting-disabled

Description Disable Reporting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Type: List

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable sFlow counter polling packets, tcp-basic, tcp-stateful and http. WARNING: Zone level Sflow polling might induce heavy CP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-layer-4, sflow-tcp-basic, sflow-tcp-stateful, and sflow-http are mutually exclusive

sflow-http

Description Enable sFlow HTTP counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the total number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-http and sflow-common are mutually exclusive

sflow-layer-4

Description Enable sFlow Layer 4 counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the number of

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-layer-4 and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the total

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *zone-list_sflow-tcp*

Type: Object

source-nat-pool

Description Configure source NAT

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-port

Description: src-port is a **JSON Block**. Please see below for *zone-list_src-port*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port*

src-port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}*

src-prefix-len

Description Specify src prefix length for IPv6 (default: not set)

Type: number

Range: 32-127

telemetry-enable

Description Enable from-l3-peer flag for the zone, thus all the ip entries in the zone will be dynamically created/deleted based on the BGP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

threshold-sensitivity

Description tune threshold range (default OFF)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Default: OFF

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *zone-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

web-gui

Description: web-gui is a **JSON Block**. Please see below for *zone-list_web-gui*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui*

zone-migrate-to-opposite

Description Migrate zone to opposite PU

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-name

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

zone-profile

Description Apply threshold profile

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/zone-profile*

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_zone-template*

Type: Object

zone-list_outbound-policy

Specification	Value
Type	*object*

name

Description Specify name of the outbound policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/outbound-policy*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip

Specification	Value
Type	*list*
Block object keys	

expand-ip-subnet

Description Expand this subnet to individual IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

expand-ip-subnet-mode

Description 'default': Default learning mechanism (Default: Dynamic); 'dynamic': Dynamic learning; 'static': Static learning;

Type: string

Supported Values: default, dynamic, static

Default: default

ip-addr

Description Specify IP address

Type: string

Format: ipv4-address

subnet-ip-addr

Description IP Subnet

Type: string

Format: ipv4-cidr

zone-list_detection

Specification	Value
Type	*object*

notification

Description: notification is a **JSON Block**. Please see below for *zone-list_detection_notification*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/notification*

outbound-detection

Description: outbound-detection is a **JSON Block**. Please see below for *zone-list_detection_outbound-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection*

packet-anomaly-detection

Description: packet-anomaly-detection is a **JSON Block**. Please see below for *zone-list_detection_packet-anomaly-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection*

service-discovery

Description: service-discovery is a **JSON Block**. Please see below for *zone-list_detection_service-discovery*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery*

settings

Description 'settings': settings;

Type: string

Supported Values: settings

toggle

Description 'enable': Enable detection; 'disable': Disable detection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

victim-ip-detection

Description: victim-ip-detection is a **JSON Block**. Please see below for *zone-list_detection_victim-ip-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection*

zone-list_detection_packet-anomaly-detection

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator/{type}*

toggle

Description 'enable': Enable packet anomaly; 'disable': Disable packet anomaly;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_detection_packet-anomaly-detection_indicator-list

Specification	Value
Type	*list*
Block object keys	

threshold-num

Description Threshold for each indicator

Type: number

Range: 1-65535

Default: 100

type

Description 'port-zero-pkt-rate': Port Zero Packet Rate (default 100 packet per second);

Type: string

Supported Values: port-zero-pkt-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_detection_victim-ip-detection

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

histogram-toggle

Description 'histogram-enable': Enable histogram statistics of victim IP detection; 'histogram-disable': Disable histogram statistics of victim IP detection;

Type: string

Supported Values: histogram-enable, histogram-disable

Default: histogram-disable

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator/{type}*

toggle

Description 'enable': Enable victim IP detection; 'disable': Disable victim IP detection;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_detection_victim-ip-detection_indicator-list

Specification	Value
Type	*list*
Block object keys	

ip-threshold-num

Description Threshold for IP

Type: number

Range: 1-2147483647

type

Description 'pkt-rate': rate of incoming packets; 'reverse-pkt-rate': rate of reverse coming packets; 'fwd-byte-rate': rate of incoming bytes; 'rev-byte-rate': rate of reverse coming bytes;

Type: string

Supported Values: pkt-rate, reverse-pkt-rate, fwd-byte-rate, rev-byte-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_detection_notification

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

notification

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_detection_notification_notification

Specification	Value
Type	*list*
Block object keys	

notification-template-name

Description Specify the notification template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/notification-template*

zone-list_detection_service-discovery

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

pkt-rate-threshold

Description packet rate threshold for discovery (default 10 packets per second)

Type: number

Range: 1-255

Default: 10

toggle

Description 'enable': Enable service discovery; 'disable': Disable service discovery;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_detection_outbound-detection

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

discovery-method

Description 'asn': Autonomous Systems number; 'country': Country;

Type: string

Supported Values: asn, country

discovery-record

Description Maximum number of top locations

Type: number

Range: 1-100

Default: 10

enable-top-k

Type: List

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator/{type}*

toggle

Description 'enable': Enable outbound detection; 'disable': Disable outbound detection;

Type: string

Supported Values: enable, disable

Default: disable

topk-source-subnet

Description: topk-source-subnet is a **JSON Block**. Please see below for *zone-list_detection_outbound-detection_topk-source-subnet*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_detection_outbound-detection_topk-source-subnet

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_detection_outbound-detection_enable-top-k

Specification	Value
Type	*list*
Block object keys	

topk-netmask

Description Subnet mask. The value should be less than or equal to the minimum zone subnet mask + 8 (IPv6 Subnet mask)

Type: number

Range: 1-128

Default: 128

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-type

Description 'source-subnet': Topk source subnet;

Type: string

Supported Values: source-subnet

zone-list_detection_outbound-detection_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

threshold-large-num

Description Threshold for each geo-location

Type: number

Range: 1-10995116277760

threshold-num

Description Threshold for each geo-location

Type: number

Range: 1-2147483647

threshold-str

Description Threshold for each geo-location (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, syn-rate, fin-rate, rst-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_packet-anomaly-detection

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto

Specification	Value
Type	*object*

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}*

proto-number-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}*

proto-tcp-udp-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}*

zone-list_ip-proto_proto-number-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deny

Description Blacklist and Drop all incoming packets for this ip-proto

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

esp-inspect

Description: esp-inspect is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-number-list_esp-inspect*

Type: Object

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-number-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-number-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

port-ind

Description: port-ind is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-number-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-number-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking*

protocol-num

Description Protocol Number

Type: number

Range: 0-255

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-number-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-number-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-number-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-number-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-number-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

zone-list_ip-proto_proto-number-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-number-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

zone-list_ip-proto_proto-number-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-number-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-list_ip-proto_proto-number-list_level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-number-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-list_ip-proto_proto-number-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-number-list_manual-mode-list_zone-template*

Type: Object

zone-list_ip-proto_proto-number-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-number-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid, glid, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

zone-list_ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-number-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-number-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP

Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current,

ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

zone-list_ip-proto_proto-number-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-number-list_esp-inspect

Specification	Value
Type	*object*

auth-algorithm

Description 'AUTH_NULL': No Integrity Check Value; 'HMAC-SHA-1-96': 96 bit Auth Algo; 'HMAC-SHA-256-96': 96 bit Auth Algo; 'HMAC-SHA-256-128': 128 bit Auth Algo; 'HMAC-SHA-384-192': 192 bit Auth Algo; 'HMAC-SHA-512-256': 256 bit Auth Algo; 'HMAC-MD5-96': 96 bit Auth Algo; 'MAC-RIPEMD-160-96': 96 bit Auth Algo;

Type: string

Supported Values: AUTH_NULL, HMAC-SHA-1-96, HMAC-SHA-256-96, HMAC-SHA-256-128, HMAC-SHA-384-192, HMAC-SHA-512-256, HMAC-MD5-96, MAC-RIPEMD-160-96

encrypt-algorithm

Description 'NULL': Null Encryption Algorithm;

Type: string

Supported Values: NULL

mode

Description 'transport': Transport mode;

Type: string

Supported Values: transport

zone-list_ip-proto_proto-number-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-number-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-name-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deny

Description Blacklist and Drop all incoming packets for ip-proto icmp-v4

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-name-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-name-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics*

key-cfg

Type: List

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

port-ind

Description: port-ind is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-name-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-name-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking*

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6; 'other': ip-proto other; 'gre': ip-proto gre; 'ipv4-encap': ip-proto IPv4 Encapsulation; 'ipv6-encap': ip-proto IPv6 Encapsulation;

Type: string

Supported Values: icmp-v4, icmp-v6, other, gre, ipv4-encap, ipv6-encap

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-name-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-name-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources*

tunnel-decap

Description Enable tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-rate-limit

Description Enable DDOS-protection on tunnel traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-name-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-name-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-name-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

zone-list_ip-proto_proto-name-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-name-list_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-name-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

zone-list_ip-proto_proto-name-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-name-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-list_ip-proto_proto-name-list_level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-name-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-list_ip-proto_proto-name-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-name-list_manual-mode-list_zone-template*

Type: Object

zone-list_ip-proto_proto-name-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-name-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, icmp-v4, icmp-v6, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v4 and class-list-glid are mutually exclusive

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v6 and class-list-glid are mutually exclusive

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

zone-list_ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-name-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-name-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP

Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current,

ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

zone-list_ip-proto_proto-name-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-name-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-name-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-tcp-udp-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for this ip-proto

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-tcp-udp-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *zone-list_ip-proto_proto-tcp-udp-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics*

protocol

Description 'tcp': ip-proto tcp; 'udp': ip-proto udp;

Type: string

Supported Values: tcp, udp

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ip-proto_proto-tcp-udp-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

zone-list_ip-proto_proto-tcp-udp-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port-range-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config

Description: capture-config is a **JSON Block**. Please see below for *zone-list_port-range-list_capture-config*

Type: Object

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified under zone port or each class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-list_port-range-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *zone-list_port-range-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *zone-list_port-range-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *zone-list_port-range-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *zone-list_port-range-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *zone-list_port-range-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp, quic

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-ip-filtering-policy, sflow-tcp-basic, sflow-tcp-stateful, and sflow-http are mutually exclusive

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-http and sflow-common are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *zone-list_port-range-list_sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *zone-list_port-range-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *zone-list_port-range-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

virtualhosts

Description: virtualhosts is a **JSON Block**. Please see below for *zone-list_port-range-list_virtualhosts*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts*

zone-list_port-range-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

app-payload-offset

Description Set offset of the payload, default 0

Type: number

Range: 0-1500

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port-range-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port-range-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port-range-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

zone-list_port-range-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port-range-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port-range-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

zone-list_port-range-list_level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port-range-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-list_port-range-list_level-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port-range-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-list_port-range-list_virtualhosts

Specification	Value
Type	*object*

source-tracking-all

Description enables creation of source entries for all virtualhosts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhosts-config

Description 'configuration': configure virtualhost based mitigation for ssl services;

Type: string

Supported Values: configuration

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}*

zone-list_port-range-list_virtualhosts_virtualhost-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-list_port-range-list_virtualhosts_virtualhost-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}*

servername

Type: List

servername-list

Description Class List to match servername (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername-match-any

Description Match when there is no SNI or other servernames are not matched

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-tracking

Description 'follow': enable creation of source entries when source-tracking-all is enabled (default); 'enable': enable creation of source entries on this virtualhost; 'disable': disable creation of source entries on this virtualhost;

Type: string

Supported Values: follow, enable, disable

Default: follow

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port-range-list_virtualhosts_virtualhost-list_servername

Specification	Value
Type	*list*
Block object keys	

host-match-string

Description SNI String

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'contains': match servername extension when contains this string; 'ends-with': match servername extension when ends with this string; 'equals': match servername extension when equals this string; 'starts-with': match servername extension when starts with this string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

zone-list_port-range-list_virtualhosts_virtualhost-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

zone-list_port-range-list_virtualhosts_virtualhost-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port-range-list_virtualhosts_virtualhost-list_level-list_zone-template*

Type: Object

zone-list_port-range-list_virtualhosts_virtualhost-list_level-list_zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port-range-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port-range-list_manual-mode-list_zone-template*

Type: Object

zone-list_port-range-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port-range-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port-range-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, quic, dns, http, ssl-l4, sip, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port-range-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

zone-list_port-range-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns and class-list-glid are mutually exclusive

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: quic and class-list-glid are mutually exclusive

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip and class-list-glid are mutually exclusive

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4 and class-list-glid are mutually exclusive

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

zone-list_port-range-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

zone-list_port-range-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port-range-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

zone-list_port-range-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port-range-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port-range-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port-range-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current;

‘ddet_ind_pkt_drop_ratio_min’: Pkt Drop / Pkt Rcvd Min; ‘ddet_ind_pkt_drop_ratio_max’: Pkt Drop / Pkt Rcvd Max; ‘ddet_ind_pkt_drop_ratio_adaptive_threshold’: Pkt Drop / Pkt Rcvd Adaptive Threshold; ‘ddet_ind_inb_per_outb_current’: Bytes-to / Bytes-from Current; ‘ddet_ind_inb_per_outb_min’: Bytes-to / Bytes-from Min; ‘ddet_ind_inb_per_outb_max’: Bytes-to / Bytes-from Max; ‘ddet_ind_inb_per_outb_adaptive_threshold’: Bytes-to / Bytes-from Adaptive Threshold; ‘ddet_ind_syn_per_fin_rate_current’: TCP SYN Rate / FIN Rate Current; ‘ddet_ind_syn_per_fin_rate_min’: TCP SYN Rate / FIN Rate Min; ‘ddet_ind_syn_per_fin_rate_max’: TCP SYN Rate / FIN Rate Max; ‘ddet_ind_syn_per_fin_rate_adaptive_threshold’: TCP SYN Rate / FIN Rate Adaptive Threshold; ‘ddet_ind_conn_miss_rate_current’: TCP Session Miss Rate Current; ‘ddet_ind_conn_miss_rate_min’: TCP Session Miss Rate Min; ‘ddet_ind_conn_miss_rate_max’: TCP Session Miss Rate Max; ‘ddet_ind_conn_miss_rate_adaptive_threshold’: TCP Session Miss Rate Adaptive Threshold; ‘ddet_ind_concurrent_conns_current’: TCP/UDP Concurrent Sessions Current; ‘ddet_ind_concurrent_conns_min’: TCP/UDP Concurrent Sessions Min; ‘ddet_ind_concurrent_conns_max’: TCP/UDP Concurrent Sessions Max; ‘ddet_ind_concurrent_conns_adaptive_threshold’: TCP/UDP Concurrent Sessions Adaptive Threshold; ‘ddet_ind_data_cpu_util_current’: Data CPU Utilization Current; ‘ddet_ind_data_cpu_util_min’: Data CPU Utilization Min; ‘ddet_ind_data_cpu_util_max’: Data CPU Utilization Max; ‘ddet_ind_data_cpu_util_adaptive_threshold’: Data CPU Utilization Adaptive Threshold; ‘ddet_ind_outside_intf_util_current’: Outside Interface Utilization Current; ‘ddet_ind_outside_intf_util_min’: Outside Interface Utilization Min; ‘ddet_ind_outside_intf_util_max’: Outside Interface Utilization Max; ‘ddet_ind_outside_intf_util_adaptive_threshold’: Outside Interface Utilization Adaptive Threshold; ‘ddet_ind_frag_rate_current’: Frag Pkt Rate Current; ‘ddet_ind_frag_rate_min’: Frag Pkt Rate Min; ‘ddet_ind_frag_rate_max’: Frag Pkt Rate Max; ‘ddet_ind_frag_rate_adaptive_threshold’: Frag Pkt Rate Adaptive Threshold; ‘ddet_ind_bit_rate_current’: Bit Rate Current; ‘ddet_ind_bit_rate_min’: Bit Rate Min; ‘ddet_ind_bit_rate_max’: Bit Rate Max; ‘ddet_ind_bit_rate_adaptive_threshold’: Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold,

ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

zone-list_port-range-list_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

zone-list_port-range-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port-range-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-list_port-range-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_collector

Specification	Value
Type	*list*
Block object keys	

sflow-name

Description Name of configured custom sFlow collector

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/sflow/collector/custom*

zone-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_capture-config-list

Specification	Value
Type	*list*
Block object keys	

mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_zone-template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-list_hw-blacklist-blocking

Specification	Value
Type	*object*

dst-enable

Description Enable Dst side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-enable

Description Enable Src side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port

Specification	Value
Type	*object*

zone-service-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}*

zone-service-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}*

zone-list_port_zone-service-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config

Description: capture-config is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_capture-config*

Type: Object

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind*

port-num

Description Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp, quic

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-ip-filtering-policy, sflow-tcp-basic, sflow-tcp-stateful, and sflow-http are mutually exclusive

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-http and sflow-common are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

virtualhosts

Description: virtualhosts is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_virtualhosts*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts*

zone-list_port_zone-service-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

app-payload-offset

Description Set offset of the payload

Type: number

Range: 0-1500

Default: 0

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

zone-list_port_zone-service-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

zone-list_port_zone-service-list_level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-signature-extraction

Description Start signature extraction from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-list_port_zone-service-list_level-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-list_port_zone-service-list_virtualhosts

Specification	Value
Type	*object*

source-tracking-all

Description enable creation of source entries for all virtualhosts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhosts-config

Description 'configuration': configure virtualhost based mitigation for ssl services;

Type: string

Supported Values: configuration

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}*

zone-list_port_zone-service-list_virtualhosts_virtualhost-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_virtualhosts_virtualhost-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}*

servername

Type: List

servername-list

Description Class List to match servername (AC type Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername-match-any

Description Match when there is no SNI or other servernames are not matched

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

servername-no-sni

Description Match when there is no SNI extension found

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-tracking

Description 'follow': enable creation of source entries when source-tracking-all is enabled (default); 'enable': enable creation of source entries on this virtualhost; 'disable': disable creation of source entries on this virtualhost;

Type: string

Supported Values: follow, enable, disable

Default: follow

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_virtualhosts_virtualhost-list_servername

Specification	Value
Type	*list*
Block object keys	

host-match-string

Description SNI String

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'contains': match servername extension when contains this string; 'ends-with': match servername extension when ends with this string; 'equals': match servername extension when equals this string; 'starts-with': match servername extension when starts with this string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

zone-list_port_zone-service-list_virtualhosts_virtualhost-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

zone-list_port_zone-service-list_virtualhosts_virtualhost-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_virtualhosts_virtualhost-list_level-list_zone-template*

Type: Object

zone-list_port_zone-service-list_virtualhosts_virtualhost-list_level-list_zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_manual-mode-list_zone-template*

Type: Object

zone-list_port_zone-service-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, quic, dns, http, ssl-l4, sip, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns and class-list-glid are mutually exclusive

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: quic and class-list-glid are mutually exclusive

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip and class-list-glid are mutually exclusive

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4 and class-list-glid are mutually exclusive

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

zone-list_port_zone-service-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current;

‘ddet_ind_data_cpu_util_min’: Data CPU Utilization Min; ‘ddet_ind_data_cpu_util_max’: Data CPU Utilization Max; ‘ddet_ind_data_cpu_util_adaptive_threshold’: Data CPU Utilization Adaptive Threshold; ‘ddet_ind_outside_intf_util_current’: Outside Interface Utilization Current; ‘ddet_ind_outside_intf_util_min’: Outside Interface Utilization Min; ‘ddet_ind_outside_intf_util_max’: Outside Interface Utilization Max; ‘ddet_ind_outside_intf_util_adaptive_threshold’: Outside Interface Utilization Adaptive Threshold; ‘ddet_ind_frag_rate_current’: Frag Pkt Rate Current; ‘ddet_ind_frag_rate_min’: Frag Pkt Rate Min; ‘ddet_ind_frag_rate_max’: Frag Pkt Rate Max; ‘ddet_ind_frag_rate_adaptive_threshold’: Frag Pkt Rate Adaptive Threshold; ‘ddet_ind_bit_rate_current’: Bit Rate Current; ‘ddet_ind_bit_rate_min’: Bit Rate Min; ‘ddet_ind_bit_rate_max’: Bit Rate Max; ‘ddet_ind_bit_rate_adaptive_threshold’: Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

zone-list_port_zone-service-list_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

zone-list_port_zone-service-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-other-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for this zone port or each class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking*

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-tcp-basic, sflow-tcp-stateful, and sflow-ip-filtering-policy are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-other-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-other-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-other-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

zone-list_port_zone-service-other-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port_zone-service-other-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

zone-list_port_zone-service-other-list_level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-list_port_zone-service-other-list_level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port_zone-service-other-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-list_port_zone-service-other-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_manual-mode-list_zone-template*

Type: Object

zone-list_port_zone-service-other-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port_zone-service-other-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

zone-list_port_zone-service-other-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-list_port_zone-service-other-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-other-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-other-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold;

'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

zone-list_port_zone-service-other-list_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

zone-list_port_zone-service-other-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-other-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_port_zone-service-other-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_ipv6

Specification	Value
Type	*list*
Block object keys	

expand-ipv6-subnet

Description Expand this subnet to individual IPv6 address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

expand-ipv6-subnet-mode

Description 'default': Default learning mechanism (Default: Dynamic); 'dynamic': Dynamic learning; 'static': Static learning;

Type: string

Supported Values: default, dynamic, static

Default: default

ip6-addr

Description Specify IPv6 address

Type: string

Format: ipv6-address

subnet-ipv6-addr

Description IPV6 Subnet

Type: string

Format: ipv6-address-plen

zone-list_src-port-range-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description: capture-config is a **JSON Block**. Please see below for *zone-list_src-port-range-list_capture-config*

Type: Object

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-list_src-port-range-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *zone-list_src-port-range-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind*

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

src-port-range-end

Description Src Port-Range End Port Number

Type: number

Range: 2-65535

src-port-range-start

Description Src Port-Range Start Port Number

Type: number

Range: 1-65535

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_src-port-range-list_zone-template*

Type: Object

zone-list_src-port-range-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-list_src-port-range-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

zone-list_src-port-range-list_zone-template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-list_src-port-range-list_port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_src-port-range-list_level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_src-port-range-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the port-range

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the port-range

Type: number

Range: 1-2147483647

zone-list_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the total nu

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the total

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

zone-list_src-port

Specification	Value
Type	*object*

zone-src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}*

zone-src-port-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}*

zone-list_src-port_zone-src-port-list

Specification	Value
Type	*list*
Block object keys	

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-list_src-port_zone-src-port-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}*

outbound-src-tracking

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

port-ind

Description: port-ind is a **JSON Block**. Please see below for *zone-list_src-port_zone-src-port-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind*

port-num

Description Source Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-udp': DNS-UDP Port; 'dns-tcp': DNS-TCP Port; 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: dns-udp, dns-tcp, udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_src-port_zone-src-port-list_zone-template*

Type: Object

zone-list_src-port_zone-src-port-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

zone-list_src-port_zone-src-port-list_zone-template

Specification	Value
Type	*object*

src-dns

Description DDOS dns src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-list_src-port_zone-src-port-list_port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_src-port_zone-src-port-list_level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_src-port_zone-src-port-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

zone-list_src-port_zone-src-port-other-list

Specification	Value
Type	*list*
Block object keys	

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-list_src-port_zone-src-port-other-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *zone-list_src-port_zone-src-port-other-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-list_src-port_zone-src-port-other-list_zone-template*

Type: Object

zone-list_src-port_zone-src-port-other-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

zone-list_src-port_zone-src-port-other-list_zone-template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-list_src-port_zone-src-port-other-list_port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_src-port_zone-src-port-other-list_level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_src-port_zone-src-port-other-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

zone-list_web-gui

Specification	Value
Type	*object*

activated-after-learning

Description Activate it after learning

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

create-time

Description Configure create time

Type: string

Maximum Length: 13 characters

Maximum Length: 1 characters

learning

Description: learning is a **JSON Block**. Please see below for *zone-list_web-gui_learning*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/learning*

modify-time

Description Configure modify time

Type: string

Maximum Length: 13 characters

Maximum Length: 1 characters

protection

Description: protection is a **JSON Block**. Please see below for *zone-list_web-gui_protection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection*

sensitivity

Description '5': Low; '3': Medium; '1.5': High;

Type: string

Supported Values: 5, 3, 1.5

Default: 3

status

Description 'newly': newly; 'learning': learning; 'learned': learned; 'activated': activated;

Type: string

Supported Values: newly, learning, learned, activated

Default: newly

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_web-gui_protection

Specification	Value
Type	*object*

ip-proto

Description: ip-proto is a **JSON Block**. Please see below for *zone-list_web-gui_protection_ip-proto*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto*

port

Description: port is a **JSON Block**. Please see below for *zone-list_web-gui_protection_port*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range/{port-range-start}+{port-range-end}+{protocol}*

zone-list_web-gui_protection_port-range-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_web-gui_protection_port

Specification	Value
Type	*object*

zone-service-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service/{port-num}+{protocol}*

zone-service-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other/{port-other}+{protocol}*

zone-list_web-gui_protection_port_zone-service-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_web-gui_protection_port_zone-service-other-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_web-gui_protection_ip-proto

Specification	Value
Type	*object*

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name/{protocol}*

zone-list_web-gui_protection_ip-proto_proto-name-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6;

Type: string

Supported Values: icmp-v4, icmp-v6

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_web-gui_learning

Specification	Value
Type	*object*

duration

Description '1minute': 1 minute; '6hour': 6 hours; '12hour': 12 hours; '24hour': 24 hours; '7day': 7 days;

Type: string

Supported Values: 1minute, 6hour, 12hour, 24hour, 7day

Default: 6hour

starting-time

Description Configure learning starting time

Type: string

Maximum Length: 13 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'zone_tcp_any_exceed': TCP Dst IP-Proto Rate: Total Exceeded; 'zone_tcp_pkt_rate_exceed': TCP Dst IP-Proto Rate: Packet Exceeded; 'zone_tcp_conn_rate_exceed': TCP Dst IP-Proto Rate: Conn Exceeded; 'zone_udp_any_exceed': UDP Dst IP-Proto Rate: Total Exceeded; 'zone_udp_pkt_rate_exceed': UDP Dst IP-Proto Rate: Packet Exceeded; 'zone_udp_conn_limit_exceed': UDP Dst IP-Proto Limit: Conn Exceeded; 'zone_udp_conn_rate_exceed': UDP Dst IP-Proto Rate: Conn Exceeded; 'zone_icmp_pkt_rate_exceed': ICMP Dst Rate: Packet Exceeded; 'zone_other_pkt_rate_exceed': OTHER Dst IP-Proto Rate: Packet Exceeded; 'zone_other_frag_pkt_rate_exceed': OTHER Dst IP-Proto Rate: Frag Exceeded; 'zone_port_pkt_rate_exceed': Port Rate: Packet Exceeded; 'zone_port_conn_limit_exceed': Port Limit: Conn Exceeded; 'zone_port_conn_rate_exceed': Port Rate: Conn Exceeded; 'zone_pkt_sent': Inbound: Packets Forwarded; 'zone_udp_pkt_sent': UDP Total Packets Forwarded; 'zone_tcp_pkt_sent': TCP Total Packets Forwarded; 'zone_icmp_pkt_sent': ICMP Total Packets Forwarded; 'zone_other_pkt_sent': OTHER Total Packets Forwarded; 'zone_tcp_conn_limit_exceed': TCP Dst IP-Proto Limit: Conn Exceeded; 'zone_tcp_pkt_rcvd': TCP Total Packets Received; 'zone_udp_pkt_rcvd': UDP Total Packets Received; 'zone_icmp_pkt_rcvd': ICMP Total Packets Received; 'zone_other_pkt_rcvd': OTHER Total Packets Received; 'zone_udp_filter_match': UDP Filter Match; 'zone_udp_filter_not_match': UDP Filter Not Matched on Pkt; 'zone_udp_filter_action_blacklist': UDP Filter Action Blacklist; 'zone_udp_filter_action_drop': UDP Filter Action Drop; 'zone_tcp_syn': TCP Total SYN Received; 'zone_tcp_syn_drop': TCP SYN Packets Dropped; 'zone_tcp_src_rate_drop': TCP Src Rate: Total Exceeded; 'zone_udp_src_rate_drop': UDP Src Rate: Total Exceeded; 'zone_icmp_src_rate_drop': ICMP Src Rate: Total Exceeded; 'zone_other_frag_src_rate_drop': OTHER Src Rate: Frag Exceeded; 'zone_other_src_rate_drop': OTHER Src Rate: Total Exceeded; 'zone_tcp_drop': TCP Total Packets Dropped; 'zone_udp_drop': UDP Total Packets Dropped; 'zone_icmp_drop': ICMP Total Packets Dropped; 'zone_frag_drop': Fragmented Packets Dropped;

'zone_other_drop': OTHER Total Packets Dropped; 'zone_tcp_auth': TCP Auth: SYN Cookie Sent; 'zone_udp_filter_action_default_pass': UDP Filter Action Default Pass; 'zone_tcp_filter_match': TCP Filter Match; 'zone_tcp_filter_not_match': TCP Filter Not Matched on Pkt; 'zone_tcp_filter_action_blacklist': TCP Filter Action Blacklist; 'zone_tcp_filter_action_drop': TCP Filter Action Drop; 'zone_tcp_filter_action_default_pass': TCP Filter Action Default Pass; 'zone_udp_filter_action_whitelist': UDP Filter Action WL; 'zone_over_limit_on': Zone overlimit Trigger ON; 'zone_over_limit_off': Zone overlimit Trigger OFF; 'zone_port_over_limit_on': Zone port overlimit Trigger ON; 'zone_port_over_limit_off': Zone port overlimit Trigger OFF; 'zone_over_limit_action': Zone overlimit action; 'zone_port_over_limit_action': Zone port overlimit action; 'scanning_detected_drop': Scanning Detected drop (deprecated); 'scanning_detected_blacklist': Scanning Detected blacklist (deprecated); 'zone_udp_kibit_rate_drop': UDP Dst IP-Proto Rate: KiBit Exceeded; 'zone_tcp_kibit_rate_drop': TCP Dst IP-Proto Rate: KiBit Exceeded; 'zone_icmp_kibit_rate_drop': ICMP Dst Rate: KiBit Exceeded; 'zone_other_kibit_rate_drop': OTHER Dst IP-Proto Rate: KiBit Exceeded; 'zone_port_undef_drop': Dst Port Undefined Dropped; 'zone_port_bl': Dst Port Blacklist Packets Dropped; 'zone_src_port_bl': Dst SrcPort Blacklist Packets Dropped; 'zone_port_kbit_rate_exceed': Port Rate: KiBit Exceeded; 'zone_tcp_src_drop': TCP Src Packets Dropped; 'zone_udp_src_drop': UDP Src Packets Dropped; 'zone_icmp_src_drop': ICMP Src Packets Dropped; 'zone_other_src_drop': OTHER Src Packets Dropped; 'tcp_syn_rcvd': TCP Inbound SYN Received; 'tcp_syn_ack_rcvd': TCP SYN ACK Received; 'tcp_ack_rcvd': TCP ACK Received; 'tcp_fin_rcvd': TCP FIN Received; 'tcp_rst_rcvd': TCP RST Received; 'ingress_bytes': Inbound: Bytes Received; 'egress_bytes': Outbound: Bytes Received; 'ingress_packets': Inbound: Packets Received; 'egress_packets': Outbound: Packets Received; 'tcp_fwd_recv': TCP Inbound Packets Received; 'udp_fwd_recv': UDP Inbound Packets Received; 'icmp_fwd_recv': ICMP Inbound Packets Received; 'tcp_syn_cookie_fail': TCP Auth: SYN Cookie Failed; 'zone_tcp_session_created': TCP Sessions Created; 'zone_udp_session_created': UDP Sessions Created; 'zone_tcp_filter_action_whitelist': TCP Filter Action WL; 'zone_other_filter_match': OTHER Filter Match; 'zone_other_filter_not_match': OTHER Filter Not Matched on Pkt; 'zone_other_filter_action_blacklist': OTHER Filter Action Blacklist; 'zone_other_filter_action_drop': OTHER Filter Action Drop; 'zone_other_filter_action_whitelist': OTHER Filter Action WL; 'zone_other_filter_action_default_pass': OTHER Filter Action Default Pass; 'zone_blackhole_inject': Dst Blackhole Inject; 'zone_blackhole_withdraw': Dst Blackhole Withdraw; 'zone_tcp_out_of_seq_excd': TCP Out-Of-Seq Exceeded; 'zone_tcp_retransmit_excd': TCP Retransmit Exceeded; 'zone_tcp_zero_window_excd': TCP Zero-Window Exceeded; 'zone_tcp_conn_prate_excd': TCP Rate: Conn Pkt Exceeded; 'zone_tcp_action_on_ack_init': TCP Auth: ACK Retry Init; 'zone_tcp_action_on_ack_gap_drop': TCP Auth: ACK Retry Retry-Gap Dropped; 'zone_tcp_action_on_ack_fail': TCP Auth: ACK Retry Dropped; 'zone_tcp_action_on_ack_pass': TCP Auth: ACK Retry Passed; 'zone_tcp_action_on_syn_init': TCP Auth: SYN Retry Init; 'zone_tcp_action_on_syn_gap_drop': TCP Auth: SYN Retry-Gap Dropped; 'zone_tcp_action_on_syn_fail': TCP Auth: SYN Retry Dropped; 'zone_tcp_action_on_syn_pass': TCP Auth: SYN Retry Passed; 'zone_payload_too_small': UDP Payload Too Small; 'zone_payload_too_big': UDP Payload Too Large; 'zone_udp_conn_prate_excd': UDP Rate: Conn Pkt Exceeded; 'zone_udp_ntp_monlist_req': UDP NTP Monlist Request; 'zone_udp_ntp_monlist_resp': UDP NTP Monlist Response; 'zone_udp_wellknown_sport_drop': UDP SrcPort Wellknown; 'zone_udp_retry_init': UDP Auth: Retry Init; 'zone_udp_retry_pass': UDP Auth: Retry Passed; 'zone_tcp_bytes_drop': TCP Total Bytes Dropped; 'zone_udp_bytes_drop': UDP Total Bytes Dropped; 'zone_icmp_bytes_drop': ICMP Total Bytes Dropped; 'zone_other_bytes_drop': OTHER Total Bytes Dropped; 'zone_out_no_route': Dst IPv4/v6 Out No Route; 'out-

bound_bytes_sent': Outbound: Bytes Forwarded; 'outbound_drop': Outbound: Packets Dropped; 'outbound_bytes_drop': Outbound: Bytes Dropped; 'outbound_pkt_sent': Outbound: Packets Forwarded; 'inbound_bytes_sent': Inbound: Bytes Forwarded; 'inbound_bytes_drop': Inbound: Bytes Dropped; 'zone_src_port_pkt_rate_exceed': SrcPort Rate: Packet Exceeded; 'zone_src_port_kbit_rate_exceed': SrcPort Rate: KiBit Exceeded; 'zone_src_port_conn_limit_exceed': SrcPort Limit: Conn Exceeded; 'zone_src_port_conn_rate_exceed': SrcPort Rate: Conn Exceeded; 'zone_ip_proto_pkt_rate_exceed': IP-Proto Rate: Packet Exceeded; 'zone_ip_proto_kbit_rate_exceed': IP-Proto Rate: KiBit Exceeded; 'zone_tcp_port_any_exceed': TCP Port Rate: Total Exceed; 'zone_udp_port_any_exceed': UDP Port Rate: Total Exceed; 'zone_tcp_auth_pass': TCP Auth: SYN Auth Passed; 'zone_tcp_rst_cookie_fail': TCP Auth: RST Cookie Failed; 'zone_tcp_unauth_drop': TCP Auth: Unauth Dropped; 'src_tcp_syn_auth_fail': Src TCP Auth: SYN Auth Failed; 'src_tcp_syn_cookie_sent': Src TCP Auth: SYN Cookie Sent; 'src_tcp_syn_cookie_fail': Src TCP Auth: SYN Cookie Failed; 'src_tcp_rst_cookie_fail': Src TCP Auth: RST Cookie Failed;

Type: string

Supported Values: all, zone_tcp_any_exceed, zone_tcp_pkt_rate_exceed, zone_tcp_conn_rate_exceed, zone_udp_any_exceed, zone_udp_pkt_rate_exceed, zone_udp_conn_limit_exceed, zone_udp_conn_rate_exceed, zone_icmp_pkt_rate_exceed, zone_other_pkt_rate_exceed, zone_other_frag_pkt_rate_exceed, zone_port_pkt_rate_exceed, zone_port_conn_limit_exceed, zone_port_conn_rate_exceed, zone_pkt_sent, zone_udp_pkt_sent, zone_tcp_pkt_sent, zone_icmp_pkt_sent, zone_other_pkt_sent, zone_tcp_conn_limit_exceed, zone_tcp_pkt_rcvd, zone_udp_pkt_rcvd, zone_icmp_pkt_rcvd, zone_other_pkt_rcvd, zone_udp_filter_match, zone_udp_filter_not_match, zone_udp_filter_action_blacklist, zone_udp_filter_action_drop, zone_tcp_syn, zone_tcp_syn_drop, zone_tcp_src_rate_drop, zone_udp_src_rate_drop, zone_icmp_src_rate_drop, zone_other_frag_src_rate_drop, zone_other_src_rate_drop, zone_tcp_drop, zone_udp_drop, zone_icmp_drop, zone_frag_drop, zone_other_drop, zone_tcp_auth, zone_udp_filter_action_default_pass, zone_tcp_filter_match, zone_tcp_filter_not_match, zone_tcp_filter_action_blacklist, zone_tcp_filter_action_drop, zone_tcp_filter_action_default_pass, zone_udp_filter_action_whitelist, zone_over_limit_on, zone_over_limit_off, zone_port_over_limit_on, zone_port_over_limit_off, zone_over_limit_action, zone_port_over_limit_action, scanning_detected_drop, scanning_detected_blacklist, zone_udp_kibit_rate_drop, zone_tcp_kibit_rate_drop, zone_icmp_kibit_rate_drop, zone_other_kibit_rate_drop, zone_port_undef_drop, zone_port_bl, zone_src_port_bl, zone_port_kbit_rate_exceed, zone_tcp_src_drop, zone_udp_src_drop, zone_icmp_src_drop, zone_other_src_drop, tcp_syn_rcvd, tcp_syn_ack_rcvd, tcp_ack_rcvd, tcp_fin_rcvd, tcp_rst_rcvd, ingress_bytes, egress_bytes, ingress_packets, egress_packets, tcp_fwd_recv, udp_fwd_recv, icmp_fwd_recv, tcp_syn_cookie_fail, zone_tcp_session_created, zone_udp_session_created, zone_tcp_filter_action_whitelist, zone_other_filter_match, zone_other_filter_not_match, zone_other_filter_action_blacklist, zone_other_filter_action_drop, zone_other_filter_action_whitelist, zone_other_filter_action_default_pass, zone_blackhole_inject, zone_blackhole_withdraw, zone_tcp_out_of_seq_excd, zone_tcp_retransmit_excd, zone_tcp_zero_window_excd, zone_tcp_conn_prate_excd, zone_tcp_action_on_ack_init, zone_tcp_action_on_ack_gap_drop, zone_tcp_action_on_ack_fail, zone_tcp_action_on_ack_pass, zone_tcp_action_on_syn_init, zone_tcp_action_on_syn_gap_drop, zone_tcp_action_on_syn_fail, zone_tcp_action_on_syn_pass, zone_payload_too_small, zone_payload_too_big, zone_udp_conn_prate_excd, zone_udp_ntp_monlist_req, zone_udp_ntp_monlist_resp, zone_udp_wellknown_sport_drop, zone_udp_retry_init, zone_udp_retry_pass, zone_tcp_bytes_drop, zone_udp_bytes_drop, zone_icmp_bytes_drop, zone_other_bytes_drop, zone_out_no_route, outbound_bytes_sent, outbound_drop, outbound_bytes_drop, out-

bound_pkt_sent, inbound_bytes_sent, inbound_bytes_drop, zone_src_port_pkt_rate_exceed, zone_src_port_kbit_rate_exceed, zone_src_port_conn_limit_exceed, zone_src_port_conn_rate_exceed, zone_ip_proto_pkt_rate_exceed, zone_ip_proto_kbit_rate_exceed, zone_tcp_port_any_exceed, zone_udp_port_any_exceed, zone_tcp_auth_pass, zone_tcp_rst_cookie_fail, zone_tcp_unauth_drop, src_tcp_syn_auth_fail, src_tcp_syn_cookie_sent, src_tcp_syn_cookie_fail, src_tcp_rst_cookie_fail

counters2

Description 'src_tcp_unauth_drop': Src TCP Auth: Unauth Dropped; 'src_tcp_action_on_syn_init': Src TCP Auth: SYN Retry Init; 'src_tcp_action_on_syn_gap_drop': Src TCP Auth: SYN Retry-Gap Dropped; 'src_tcp_action_on_syn_fail': Src TCP Auth: SYN Retry Dropped; 'src_tcp_action_on_ack_init': Src TCP Auth: ACK Retry Init; 'src_tcp_action_on_ack_gap_drop': Src TCP Auth: ACK Retry Retry-Gap Dropped; 'src_tcp_action_on_ack_fail': Src TCP Auth: ACK Retry Dropped; 'src_tcp_out_of_seq_excd': Src TCP Out-Of-Seq Exceeded; 'src_tcp_retransmit_excd': Src TCP Retransmit Exceeded; 'src_tcp_zero_window_excd': Src TCP Zero-Window Exceeded; 'src_tcp_conn_prate_excd': Src TCP Rate: Conn Pkt Exceeded; 'src_udp_min_payload': Src UDP Payload Too Small; 'src_udp_max_payload': Src UDP Payload Too Large; 'src_udp_conn_prate_excd': Src UDP Rate: Conn Pkt Exceeded; 'src_udp_ntp_monlist_req': Src UDP NTP Monlist Request; 'src_udp_ntp_monlist_resp': Src UDP NTP Monlist Response; 'src_udp_wellknown_sport_drop': Src UDP SrcPort Wellknown; 'src_udp_retry_init': Src UDP Auth: Retry Init; 'dst_udp_retry_gap_drop': UDP Auth: Retry-Gap Dropped; 'dst_udp_retry_fail': UDP Auth: Retry Timeout; 'dst_tcp_session_aged': TCP Sessions Aged; 'dst_udp_session_aged': UDP Sessions Aged; 'dst_tcp_conn_close': TCP Connections Closed; 'dst_tcp_conn_close_half_open': TCP Half Open Connections Closed; 'dst_drop_frag_pkt': Fragmented Packets Dropped; 'src_tcp_filter_action_blacklist': Src TCP Filter Action Blacklist; 'src_tcp_filter_action_whitelist': Src TCP Filter Action WL; 'src_tcp_filter_action_drop': Src TCP Filter Action Drop; 'src_tcp_filter_action_default_pass': Src TCP Filter Action Default Pass; 'src_udp_filter_action_blacklist': Src UDP Filter Action Blacklist; 'src_udp_filter_action_whitelist': Src UDP Filter Action WL; 'src_udp_filter_action_drop': Src UDP Filter Action Drop; 'src_udp_filter_action_default_pass': Src UDP Filter Action Default Pass; 'src_other_filter_action_blacklist': Src OTHER Filter Action Blacklist; 'src_other_filter_action_whitelist': Src OTHER Filter Action WL; 'src_other_filter_action_drop': Src OTHER Filter Action Drop; 'src_other_filter_action_default_pass': Src OTHER Filter Action Default Pass; 'tcp_invalid_syn': TCP Invalid SYN Received; 'dst_tcp_conn_close_w_rst': TCP RST Connections Closed; 'dst_tcp_conn_close_w_fin': TCP FIN Connections Closed; 'dst_tcp_conn_close_w_idle': TCP Idle Connections Closed; 'dst_tcp_conn_create_from_syn': TCP Connections Created From SYN; 'dst_tcp_conn_create_from_ack': TCP Connections Created From ACK; 'src_frag_drop': Src Fragmented Packets Dropped; 'zone_port_kbit_rate_exceed_pkt': Port Rate: KiBit Pkt Exceeded; 'dst_tcp_bytes_rcv': TCP Total Bytes Received; 'dst_udp_bytes_rcv': UDP Total Bytes Received; 'dst_icmp_bytes_rcv': ICMP Total Bytes Received; 'dst_other_bytes_rcv': OTHER Total Bytes Received; 'dst_tcp_bytes_sent': TCP Total Bytes Forwarded; 'dst_udp_bytes_sent': UDP Total Bytes Forwarded; 'dst_icmp_bytes_sent': ICMP Total Bytes Forwarded; 'dst_other_bytes_sent': OTHER Total Bytes Forwarded; 'dst_udp_auth_drop': UDP Auth: Dropped; 'dst_tcp_auth_drop': TCP Auth: Dropped; 'dst_tcp_auth_resp': TCP Auth: Responded; 'dst_drop': Inbound: Packets Dropped; 'dst_entry_pkt_rate_exceed': Entry Rate: Packet Exceeded; 'dst_entry_kbit_rate_exceed': Entry Rate: KiBit Exceeded; 'dst_entry_conn_limit_exceed': Entry Limit: Conn Exceeded; 'dst_entry_conn_rate_exceed': Entry Rate: Conn Exceeded; 'dst_entry_frag_pkt_rate_exceed': Entry

Rate: Frag Packet Exceeded; 'dst_l4_tcp_blacklist_drop': Dst TCP IP-Proto Blacklist Dropped; 'dst_l4_udp_blacklist_drop': Dst UDP IP-Proto Blacklist Dropped; 'dst_l4_icmp_blacklist_drop': Dst ICMP IP-Proto Blacklist Dropped; 'dst_l4_other_blacklist_drop': Dst OTHER IP-Proto Blacklist Dropped; 'dst_frag_timeout_drop': Fragment Reassemble Timeout Drop; 'dst_icmp_any_exceed': ICMP Rate: Total Exceed; 'dst_other_any_exceed': OTHER Rate: Total Exceed; 'tcp_rexmit_syn_limit_drop': TCP SYN Retransmit Exceeded Drop; 'tcp_rexmit_syn_limit_bl': TCP SYN Retransmit Exceeded Blacklist; 'dst_clist_overflow_policy_at_learning': Dst Src-Based Overflow Policy Hit; 'zone_frag_rcvd': Fragmented Packets Received; 'zone_tcp_wellknown_sport_drop': TCP SrcPort Wellknown; 'src_tcp_wellknown_sport_drop': Src TCP SrcPort Wellknown; 'secondary_dst_entry_pkt_rate_exceed': Per Addr Rate: Packet Exceeded; 'secondary_dst_entry_kbit_rate_exceed': Per Addr Rate: KiBit Exceeded; 'secondary_dst_entry_conn_limit_exceed': Per Addr Limit: Conn Exceeded; 'secondary_dst_entry_conn_rate_exceed': Per Addr Rate: Conn Exceeded; 'secondary_dst_entry_frag_pkt_rate_exceed': Per Addr Rate: Frag Packet Exceeded; 'src_udp_retry_gap_drop': Src UDP Auth: Retry-Gap Dropped; 'dst_entry_kbit_rate_exceed_count': Entry Rate: KiBit Exceeded Count; 'secondary_entry_learn': Per Addr Entry Learned; 'secondary_entry_hit': Per Addr Entry Hit; 'secondary_entry_miss': Per Addr Entry Missed; 'secondary_entry_aged': Per Addr Entry Aged; 'secondary_entry_learning_thre_exceed': Per Addr Entry Count Overflow; 'zone_port_undef_hit': Dst Port undefined Hit; 'zone_tcp_action_on_ack_timeout': TCP Auth: ACK Retry Timeout; 'zone_tcp_action_on_ack_reset': TCP Auth: ACK Retry Timeout Reset; 'zone_tcp_action_on_ack_blacklist': TCP Auth: ACK Retry Timeout Blacklisted; 'src_tcp_action_on_ack_timeout': Src TCP Auth: ACK Retry Timeout; 'src_tcp_action_on_ack_reset': Src TCP Auth: ACK Retry Timeout Reset; 'src_tcp_action_on_ack_blacklist': Src TCP Auth: ACK Retry Timeout Blacklisted; 'zone_tcp_action_on_syn_timeout': TCP Auth: SYN Retry Timeout; 'zone_tcp_action_on_syn_reset': TCP Auth: SYN Retry Timeout Reset; 'zone_tcp_action_on_syn_blacklist': TCP Auth: SYN Retry Timeout Blacklisted; 'src_tcp_action_on_syn_timeout': Src TCP Auth: SYN Retry Timeout; 'src_tcp_action_on_syn_reset': Src TCP Auth: SYN Retry Timeout Reset; 'src_tcp_action_on_syn_blacklist': Src TCP Auth: SYN Retry Timeout Blacklisted; 'zone_udp_frag_pkt_rate_exceed': UDP Dst IP-Proto Rate: Frag Exceeded; 'zone_udp_frag_src_rate_drop': UDP Src Rate: Frag Exceeded; 'zone_tcp_frag_pkt_rate_exceed': TCP Dst IP-Proto Rate: Frag Exceeded; 'zone_tcp_frag_src_rate_drop': TCP Src Rate: Frag Exceeded; 'zone_icmp_frag_pkt_rate_exceed': ICMP Dst IP-Proto Rate: Frag Exceeded; 'zone_icmp_frag_src_rate_drop': ICMP Src Rate: Frag Exceeded; 'sflow_internal_samples_packed': Sflow Internal Samples Packed; 'sflow_external_samples_packed': Sflow External Samples Packed; 'sflow_internal_packets_sent': Sflow Internal Packets Sent; 'sflow_external_packets_sent': Sflow External Packets Sent; 'dns_outbound_total_query': DNS Outbound Total Query; 'dns_outbound_query_malformed': DNS Outbound Query Malformed; 'dns_outbound_query_resp_chk_failed': DNS Outbound Query Resp Check Failed; 'dns_outbound_query_resp_chk_blacklisted': DNS Outbound Query Resp Check Blacklisted; 'dns_outbound_query_resp_chk_refused_sent': DNS Outbound Query Resp Check REFUSED Sent; 'dns_outbound_query_resp_chk_reset_sent': DNS Outbound Query Resp Check RESET Sent; 'dns_outbound_query_resp_chk_no_resp_sent': DNS Outbound Query Resp Check No Response Sent; 'dns_outbound_query_resp_size_exceed': DNS Outbound Query Response Size Exceed; 'dns_outbound_query_sess_timed_out': DNS Outbound Query Session Timed Out; 'source_entry_total': Source Entry Total Count; 'source_entry_udp': Source Entry UDP Count; 'source_entry_tcp': Source Entry TCP Count; 'source_entry_icmp': Source Entry ICMP Count; 'source_entry_other': Source Entry

OTHER Count; 'dst_exceed_action_tunnel': Entry Exceed Action: Tunnel;

Type: string

Supported Values: src_tcp_unauth_drop, src_tcp_action_on_syn_init, src_tcp_action_on_syn_gap_drop, src_tcp_action_on_syn_fail, src_tcp_action_on_ack_init, src_tcp_action_on_ack_gap_drop, src_tcp_action_on_ack_fail, src_tcp_out_of_seq_excd, src_tcp_retransmit_excd, src_tcp_zero_window_excd, src_tcp_conn_prate_excd, src_udp_min_payload, src_udp_max_payload, src_udp_conn_prate_excd, src_udp_ntp_monlist_req, src_udp_ntp_monlist_resp, src_udp_wellknown_sport_drop, src_udp_retry_init, dst_udp_retry_gap_drop, dst_udp_retry_fail, dst_tcp_session_aged, dst_udp_session_aged, dst_tcp_conn_close, dst_tcp_conn_close_half_open, dst_drop_frag_pkt, src_tcp_filter_action_blacklist, src_tcp_filter_action_whitelist, src_tcp_filter_action_drop, src_tcp_filter_action_default_pass, src_udp_filter_action_blacklist, src_udp_filter_action_whitelist, src_udp_filter_action_drop, src_udp_filter_action_default_pass, src_other_filter_action_blacklist, src_other_filter_action_whitelist, src_other_filter_action_drop, src_other_filter_action_default_pass, tcp_invalid_syn, dst_tcp_conn_close_w_rst, dst_tcp_conn_close_w_fin, dst_tcp_conn_close_w_idle, dst_tcp_conn_create_from_syn, dst_tcp_conn_create_from_ack, src_frag_drop, zone_port_kbit_rate_exceed_pkt, dst_tcp_bytes_rcv, dst_udp_bytes_rcv, dst_icmp_bytes_rcv, dst_other_bytes_rcv, dst_tcp_bytes_sent, dst_udp_bytes_sent, dst_icmp_bytes_sent, dst_other_bytes_sent, dst_udp_auth_drop, dst_tcp_auth_drop, dst_tcp_auth_resp, dst_drop, dst_entry_pkt_rate_exceed, dst_entry_kbit_rate_exceed, dst_entry_conn_limit_exceed, dst_entry_conn_rate_exceed, dst_entry_frag_pkt_rate_exceed, dst_l4_tcp_blacklist_drop, dst_l4_udp_blacklist_drop, dst_l4_icmp_blacklist_drop, dst_l4_other_blacklist_drop, dst_frag_timeout_drop, dst_icmp_any_exceed, dst_other_any_exceed, tcp_rexmit_syn_limit_drop, tcp_rexmit_syn_limit_bl, dst_clist_overflow_policy_at_learning, zone_frag_rcvd, zone_tcp_wellknown_sport_drop, src_tcp_wellknown_sport_drop, secondary_dst_entry_pkt_rate_exceed, secondary_dst_entry_kbit_rate_exceed, secondary_dst_entry_conn_limit_exceed, secondary_dst_entry_conn_rate_exceed, secondary_dst_entry_frag_pkt_rate_exceed, src_udp_retry_gap_drop, dst_entry_kbit_rate_exceed_count, secondary_entry_learn, secondary_entry_hit, secondary_entry_miss, secondary_entry_aged, secondary_entry_learning_thre_exceed, zone_port_undef_hit, zone_tcp_action_on_ack_timeout, zone_tcp_action_on_ack_reset, zone_tcp_action_on_ack_blacklist, src_tcp_action_on_ack_timeout, src_tcp_action_on_ack_reset, src_tcp_action_on_ack_blacklist, zone_tcp_action_on_syn_timeout, zone_tcp_action_on_syn_reset, zone_tcp_action_on_syn_blacklist, src_tcp_action_on_syn_timeout, src_tcp_action_on_syn_reset, src_tcp_action_on_syn_blacklist, zone_udp_frag_pkt_rate_exceed, zone_udp_frag_src_rate_drop, zone_tcp_frag_pkt_rate_exceed, zone_tcp_frag_src_rate_drop, zone_icmp_frag_pkt_rate_exceed, zone_icmp_frag_src_rate_drop, sflow_internal_samples_packed, sflow_external_samples_packed, sflow_internal_packets_sent, sflow_external_packets_sent, dns_outbound_total_query, dns_outbound_query_malformed, dns_outbound_query_resp_chk_failed, dns_outbound_query_resp_chk_blacklisted, dns_outbound_query_resp_chk_refused_sent, dns_outbound_query_resp_chk_reset_sent, dns_outbound_query_resp_chk_no_resp_sent, dns_outbound_query_resp_size_exceed, dns_outbound_query_sess_timed_out, source_entry_total, source_entry_udp, source_entry_tcp, source_entry_icmp, source_entry_other, dst_exceed_action_tunnel

counters3

Description 'dst_udp_retry_timeout_blacklist': UDP Auth: Retry Timeout Blacklisted; 'src_udp_auth_timeout': Src UDP Auth: Retry Timeout;

'zone_src_udp_retry_timeout_blacklist': Src UDP Auth: Retry Timeout Blacklisted; 'src_udp_retry_pass': Src UDP Retry Passed; 'secondary_port_learn': Per Addr Port Learned; 'secondary_port_aged': Per Addr Port Aged; 'dst_entry_outbound_udp_session_created': Outbound: UDP Sessions Created; 'dst_entry_outbound_udp_session_aged': Outbound: UDP Sessions Aged; 'dst_entry_outbound_tcp_session_created': Outbound: TCP Sessions Created; 'dst_entry_outbound_tcp_session_aged': Outbound: TCP Sessions Aged; 'dst_entry_outbound_pkt_rate_exceed': Outbound Rate: Packet Exceeded; 'dst_entry_outbound_kbit_rate_exceed': Outbound Rate: KiBit Exceeded; 'dst_entry_outbound_kbit_rate_exceed_count': Outbound Rate: KiBit Exceeded Count; 'dst_entry_outbound_conn_limit_exceed': Outbound Limit: Conn Exceeded; 'dst_entry_outbound_conn_rate_exceed': Outbound Rate: Conn Exceeded; 'dst_entry_outbound_frag_pkt_rate_exceed': Outbound Rate: Frag Packet Exceeded; 'prog_first_req_time_exceed': Req-Resp: First Request Time Exceed; 'prog_req_resp_time_exceed': Req-Resp: Request to Response Time Exceed; 'prog_request_len_exceed': Req-Resp: Request Length Exceed; 'prog_response_len_exceed': Req-Resp: Response Length Exceed; 'prog_resp_req_ratio_exceed': Req-Resp: Response to Request Ratio Exceed; 'prog_resp_req_time_exceed': Req-Resp: Response to Request Time Exceed; 'entry_sync_message_received': Entry Sync Message Received; 'entry_sync_message_sent': Entry Sync Message Sent; 'prog_conn_sent_exceed': Connection: Sent Exceed; 'prog_conn_rcvd_exceed': Connection: Received Exceed; 'prog_conn_time_exceed': Connection: Time Exceed; 'prog_conn_rcvd_sent_ratio_exceed': Connection: Reveived to Sent Ratio Exceed; 'prog_win_sent_exceed': Time Window: Sent Exceed; 'prog_win_rcvd_exceed': Time Window: Received Exceed; 'prog_win_rcvd_sent_ratio_exceed': Time Window: Received to Sent Exceed; 'prog_exceed_drop': Req-Resp: Violation Exceed Dropped; 'prog_exceed_bl': Req-Resp: Violation Exceed Blacklisted; 'prog_conn_exceed_drop': Connection: Violation Exceed Dropped; 'prog_conn_exceed_bl': Connection: Violation Exceed Blacklisted; 'prog_win_exceed_drop': Time Window: Violation Exceed Dropped; 'prog_win_exceed_bl': Time Window: Violation Exceed Blacklisted; 'east_west_inbound_rcv_pkt': East West: Inbound Packets Received; 'east_west_inbound_drop_pkt': East West: Inbound Packets Dropped; 'east_west_inbound_fwd_pkt': East West: Inbound Packets Forwarded; 'east_west_inbound_rcv_byte': East West: Inbound Bytes Received; 'east_west_inbound_drop_byte': East West: Inbound Bytes Dropped; 'east_west_inbound_fwd_byte': East West: Inbound Bytes Forwarded; 'east_west_outbound_rcv_pkt': East West: Outbound Packets Received; 'east_west_outbound_drop_pkt': East West: Outbound Packets Dropped; 'east_west_outbound_fwd_pkt': East West: Outbound Packets Forwarded; 'east_west_outbound_rcv_byte': East West: Outbound Bytes Received; 'east_west_outbound_drop_byte': East West: Outbound Bytes Dropped; 'east_west_outbound_fwd_byte': East West: Outbound Bytes Forwarded; 'dst_exceed_action_drop': Entry Exceed Action: Dropped; 'prog_conn_samples': Sample Collected: Connection; 'prog_req_samples': Sample Collected: Req-Resp; 'prog_win_samples': Sample Collected: Time Window; 'victim_ip_learned': Victim Identification: IP Entry Learned; 'victim_ip_aged': Victim Identification: IP Entry Aged;

Type: string

Supported Values: dst_udp_retry_timeout_blacklist, src_udp_auth_timeout, zone_src_udp_retry_timeout_blacklist, src_udp_retry_pass, secondary_port_learn, secondary_port_aged, dst_entry_outbound_udp_session_created, dst_entry_outbound_udp_session_aged, dst_entry_outbound_tcp_session_created, dst_entry_outbound_tcp_session_aged, dst_entry_outbound_pkt_rate_exceed, dst_entry_outbound_kbit_rate_exceed, dst_entry_outbound_kbit_rate_exceed_count, dst_entry_outbound_conn_limit_exceed, dst_entry_outbound_conn_rate_exceed, dst_entry_outbound_frag_pkt_rate_exceed, prog_first_req_time_exceed,

prog_req_resp_time_exceed, prog_request_len_exceed, prog_response_len_exceed, prog_resp_pkt_rate_exceed, prog_resp_req_time_exceed, entry_sync_message_received, entry_sync_message_sent, prog_conn_sent_exceed, prog_conn_rcvd_exceed, prog_conn_time_exceed, prog_conn_rcvd_sent_ratio_exceed, prog_win_sent_exceed, prog_win_rcvd_exceed, prog_win_rcvd_sent_ratio_exceed, prog_exceed_drop, prog_exceed_bl, prog_conn_exceed_drop, prog_conn_exceed_bl, prog_win_exceed_drop, prog_win_exceed_bl, east_west_inbound_rcv_pkt, east_west_inbound_drop_pkt, east_west_inbound_fwd_pkt, east_west_inbound_rcv_byte, east_west_inbound_drop_byte, east_west_inbound_fwd_byte, east_west_outbound_rcv_pkt, east_west_outbound_drop_pkt, east_west_outbound_fwd_pkt, east_west_outbound_rcv_byte, east_west_outbound_drop_byte, east_west_outbound_fwd_byte, dst_exceed_action_drop, dst_src_learn_overflow, dst_tcp_auth_rst, prog_query_exceed, prog_think_exceed, prog_conn_samples, prog_req_samples, prog_win_samples, victim_ip_learned, victim_ip_aged, prog_conn_samples_processed, prog_req_samples_processed, prog_win_samples_processed, token_auth_mismatched_packets, token_auth_invalid_packets, token_auth_current_salt_matched, token_auth_previous_salt_matched, token_auth_session_created, token_auth_session_created_fail, tcp_invalid_synack, zone_tcp_small_window_excd, src_tcp_small_window_excd, small_window_rcv, multi_pu_src_hash_pu1, multi_pu_src_hash_pu2

zone-list_enable-top-k

Specification	Value
Type	*list*
Block object keys	

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-type

Description 'destination': Topk destination IP;

Type: string

Supported Values: destination

2.33.55 ddos dst default

Configure IP/IPv6 default entry

default Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*default-address-type*
Collection Name	*default-list*
Collection URI	/axapi/v3/ddos/dst/default
Element Name	default
Element URI	/axapi/v3/ddos/dst/default/{default-address-type}
Element Attributes	default_attributes
Partition Visibility	shared
Schema	`default schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/default

default attributes

```
POST /axapi/v3/ddos/dst/default/
Payload:
{
    "default": {
        "default-address-type": "ip",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/dst/default

default attributes

Get Object

GET

/axapi/v3/ddos/dst/default/{default-address-type}

default attributes

```
GET /axapi/v3/ddos/dst/default/ip
Reponse:
{
```

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```
    "default": {
        "default-address-type": "ip",
        "disable": 0,
        "exceed-log-cfg": {
            "log-enable": 0
        },
        "drop-disable": 0,
        "log-periodic": 0,
        "drop-frag-pkt": 0,
        "deny": 0,
        "uuid": "3791269c-085c-11f0-bc03-3dc8e3bd18dc",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/dst/default/ip"
    }
}
```

Get List

GET

/axapi/v3/ddos/dst/default

default-list

Modify Object

POST

/axapi/v3/ddos/dst/default/{default-address-type}

default attributes

Replace Object

PUT

/axapi/v3/ddos/dst/default/{default-address-type}

default attributes

```
PUT /axapi/v3/ddos/dst/default/ip
Payload:
{
    "default": {
        "default-address-type": "ip",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/dst/default

default-list

Delete Object

DELETE

/axapi/v3/ddos/dst/default/{default-address-type}

default attributes

```
DELETE /axapi/v3/ddos/dst/default/ip
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

default-list

default-list is **JSON List** of *default attributes*

default-list : [

{ *default attributes* },

{ *default attributes* },

...

]

default attributes

age

Description Idle age for ip entry

Type: number

Range: 5-1023

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-address-type

Description 'ip': ip; 'ipv6': ipv6;

Type: string

Supported Values: ip, ipv6

deny

Description Blacklist and Drop all incoming packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable

Description Disable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-disable

Description Disable certain drops during packet processing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-disable-fwd-immediate

Description Immediately forward L4 drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *exceed-log-cfg*

Type: Object

exceed-log-dep-cfg

Description: exceed-log-dep-cfg is a **JSON Block**. Please see below for *exceed-log-dep-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

inbound-forward-dscp

Description To set dscp value for inbound packets (DSCP Value for the clear traffic marking)

Type: number

Range: 1-63

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}/ip-proto/{port-num}*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic dst entry

Type: number

Range: 0-2147483647

outbound-forward-dscp

Description To set dscp value for outbound

Type: number

Range: 1-63

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}/port/{port-num}+{protocol}*

src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/default/{default-address-type}/src-port/{port-num}+{protocol}*

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-tcp': dns-tcp; 'dns-udp': dns-udp; 'http': http; 'tcp': tcp; 'udp': udp; 'ssl-l4': ssl-l4; 'sip-udp': sip-udp; 'sip-tcp': sip-tcp;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

template

Description: template is a **JSON Block**. Please see below for *port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-syn-auth

Description Disable TCP SYN Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-port-match

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow. Exceed action set to Drop

Type: number

Range: 1-6

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-client

Description Send reset to client when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-server

Description Send reset to server when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *l4-type-list_tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

src-port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'udp': udp; 'tcp': tcp;

Type: string

Supported Values: udp, tcp

template

Description: template is a **JSON Block**. Please see below for *src-port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port-list_template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Protocol Number

Type: number

Range: 0-255

template

Description: template is a **JSON Block**. Please see below for *ip-proto-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto-list_template

Specification	Value
Type	*object*

other

Description DDOS other template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

with-sflow-sample

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-dep-cfg

Specification	Value
Type	*object*

exceed-log-enable

Description (Deprecated)Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-with-sflow-dep

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.56 ddos dst default ip-proto

DDOS IP protocol configuration

ip-proto Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num*
Collection Name	*ip-proto-list*
Collection URI	/axapi/v3/ddos/dst/default/{default-address-type}/ip-proto
Element Name	ip-proto
Element URI	/axapi/v3/ddos/dst/default/{default-address-type}/ip-proto/{port-num}
Element Attributes	ip-proto_attributes
Partition Visibility	shared
Schema	`ip-proto schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/default/{default-address-type}/ip-proto

ip-proto attributes

Create List

POST

/axapi/v3/ddos/dst/default/{default-address-type}/ip-proto

ip-proto attributes

Get Object

GET

/axapi/v3/ddos/dst/default/{default-address-type}/ip-proto/{port-num}

ip-proto attributes

Get List

GET

/axapi/v3/ddos/dst/default/{default-address-type}/ip-proto

ip-proto-list

Modify Object

POST

/axapi/v3/ddos/dst/default/{default-address-type}/ip-proto/{port-num}

ip-proto attributes

Replace Object

PUT

/axapi/v3/ddos/dst/default/{default-address-type}/ip-proto/{port-num}

ip-proto attributes

Replace List

PUT

/axapi/v3/ddos/dst/default/{default-address-type}/ip-proto

ip-proto-list

Delete Object

DELETE

/axapi/v3/ddos/dst/default/{default-address-type}/ip-proto/{port-num}

ip-proto attributes

ip-proto-list

ip-proto-list is **JSON List** of *ip-proto attributes*

ip-proto-list : [

{ *ip-proto attributes* },

{ *ip-proto attributes* },

...

]

ip-proto attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Protocol Number

Type: number

Range: 0-255

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

other

Description DDOS other template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.57 ddos dst default l4-type

DDOS L4 type

l4-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-list*
Collection URI	/axapi/v3/ddos/dst/default/{default-address-type}/l4-type
Element Name	l4-type
Element URI	/axapi/v3/ddos/dst/default/{default-address-type}/l4-type/{protocol}
Element Attributes	l4-type_attributes
Partition Visibility	shared
Schema	`l4-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/default/{default-address-type}/l4-type

l4-type attributes

Create List

POST

/axapi/v3/ddos/dst/default/{default-address-type}/l4-type

l4-type attributes

Get Object

GET

/axapi/v3/ddos/dst/default/{default-address-type}/l4-type/{protocol}

l4-type attributes

Get List

GET

/axapi/v3/ddos/dst/default/{default-address-type}/l4-type

l4-type-list

Modify Object

POST

/axapi/v3/ddos/dst/default/{default-address-type}/l4-type/{protocol}

l4-type attributes

Replace Object

PUT

/axapi/v3/ddos/dst/default/{default-address-type}/l4-type/{protocol}

l4-type attributes

Replace List

PUT

/axapi/v3/ddos/dst/default/{default-address-type}/l4-type

l4-type-list

Delete Object

DELETE

/axapi/v3/ddos/dst/default/{default-address-type}/l4-type/{protocol}

l4-type attributes

l4-type-list

l4-type-list is **JSON List** of *l4-type attributes*

```
l4-type-list : [
        { l4-type attributes },
        { l4-type attributes },
        ...
    ]
```

l4-type attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-syn-auth

Description Disable TCP SYN Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-port-match

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow. Exceed action set to Drop

Type: number

Range: 1-6

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-client

Description Send reset to client when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-server

Description Send reset to server when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

2.33.58 ddos dst default port

DDOS Port & Protocol configuration

port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num, protocol*
Collection Name	*port-list*
Collection URI	/axapi/v3/ddos/dst/default/{default-address-type}/port
Element Name	port
Element URI	/axapi/v3/ddos/dst/default/{default-address-type}/port/{port-num}+{protocol}
Element Attributes	port_attributes
Partition Visibility	shared
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/default/{default-address-type}/port

port attributes

Create List

POST

/axapi/v3/ddos/dst/default/{default-address-type}/port

port attributes

Get Object

GET

/axapi/v3/ddos/dst/default/{default-address-type}/port/{port-num}+{protocol}

port attributes

Get List

GET

/axapi/v3/ddos/dst/default/{default-address-type}/port

port-list

Modify Object

POST

/axapi/v3/ddos/dst/default/{default-address-type}/port/{port-num}+{protocol}

port attributes

Replace Object

PUT

/axapi/v3/ddos/dst/default/{default-address-type}/port/{port-num}+{protocol}

port attributes

Replace List

PUT

/axapi/v3/ddos/dst/default/{default-address-type}/port

port-list

Delete Object

DELETE

/axapi/v3/ddos/dst/default/{default-address-type}/port/{port-num}+{protocol}

port attributes

port-list

port-list is **JSON List** of *port attributes*

port-list : [

{ *port attributes* },

{ *port attributes* },

...

]

port attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-tcp': dns-tcp; 'dns-udp': dns-udp; 'http': http; 'tcp': tcp; 'udp': udp; 'ssl-l4': ssl-l4; 'sip-udp': sip-udp; 'sip-tcp': sip-tcp;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.59 ddos dst default src-port

DDOS Source Port & Protocol configuration

src-port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num, protocol*
Collection Name	*src-port-list*
Collection URI	/axapi/v3/ddos/dst/default/{default-address-type}/src-port
Element Name	src-port
Element URI	/axapi/v3/ddos/dst/default/{default-address-type}/src-port/{port-num}+{protocol}
Element Attributes	src-port_attributes
Partition Visibility	shared
Schema	`src-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/default/{default-address-type}/src-port

src-port attributes

Create List

POST

/axapi/v3/ddos/dst/default/{default-address-type}/src-port

src-port attributes

Get Object

GET

/axapi/v3/ddos/dst/default/{default-address-type}/src-port/{port-num}+{protocol}

src-port attributes

Get List

GET

/axapi/v3/ddos/dst/default/{default-address-type}/src-port

src-port-list

Modify Object

POST

/axapi/v3/ddos/dst/default/{default-address-type}/src-port/{port-num}+{protocol}

src-port attributes

Replace Object

PUT

/axapi/v3/ddos/dst/default/{default-address-type}/src-port/{port-num}+{protocol}

src-port attributes

Replace List

PUT

/axapi/v3/ddos/dst/default/{default-address-type}/src-port

src-port-list

Delete Object

DELETE

/axapi/v3/ddos/dst/default/{default-address-type}/src-port/{port-num}+{protocol}

src-port attributes

src-port-list

src-port-list is **JSON List** of *src-port attributes*

src-port-list : [

{ *src-port attributes* },

{ *src-port attributes* },

...

]

src-port attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'udp': udp; 'tcp': tcp;

Type: string

Supported Values: udp, tcp

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.60 ddos dst dynamic-entries-resource-usage

Dst dynamic entry all-entries resource usage

dynamic-entries-resource-usage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dynamic-entries-resource-usage
Element URI	/axapi/v3/ddos/dst/dynamic-entries-resource-usage
Element Attributes	dynamic-entries-resource-usage_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/dynamic-entries-resource-usage/oper
Schema	`dynamic-entries-resource-usage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/dynamic-entries-resource-usage

dynamic-entries-resource-usage attributes

Get Object

GET

/axapi/v3/ddos/dst/dynamic-entries-resource-usage

dynamic-entries-resource-usage attributes

Modify Object

POST

/axapi/v3/ddos/dst/dynamic-entries-resource-usage

dynamic-entries-resource-usage attributes

Replace Object

PUT

/axapi/v3/ddos/dst/dynamic-entries-resource-usage

dynamic-entries-resource-usage attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/dynamic-entries-resource-usage

dynamic-entries-resource-usage attributes

dynamic-entries-resource-usage attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.61 ddos dst dynamic-entries-resource-usage oper

Operational Status for the object dynamic-entries-resource-usage

dynamic-entries-resource-usage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dynamic-entries-resource-usage
Element URI	/axapi/v3/ddos/dst/dynamic-entries-resource-usage/oper
Element Attributes	dynamic-entries-resource-usage_attributes
Partition Visibility	None
Schema	`dynamic-entries-resource-usage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/dynamic-entries-resource-usage/oper

dynamic-entries-resource-usage attributes

Get Object

GET

/axapi/v3/ddos/dst/dynamic-entries-resource-usage/oper

dynamic-entries-resource-usage attributes

Modify Object

POST

/axapi/v3/ddos/dst/dynamic-entries-resource-usage/oper

dynamic-entries-resource-usage attributes

Replace Object

PUT

/axapi/v3/ddos/dst/dynamic-entries-resource-usage/oper

dynamic-entries-resource-usage attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/dynamic-entries-resource-usage/oper

dynamic-entries-resource-usage attributes

dynamic-entries-resource-usage attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

conn_total_ip

Description

Type: number

conn_total_ipv6

Description

Type: number

dst_entry_ip_allocated

Description

Type: number

dst_entry_ip_limit

Description

Type: number

dst_entry_ip_remaining

Description

Type: string

dst_entry_ipv6_allocated

Description

Type: number

dst_entry_ipv6_limit

Description

Type: number

dst_entry_ipv6_remaining

Description

Type: string

2.33.62 ddos dst dynamic-entry all-entries stats

Statistics for the object all-entries

all-entries Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	all-entries
Element URI	/axapi/v3/ddos/dst/dynamic-entry/all-entries/stats
Element Attributes	all-entries_attributes
Partition Visibility	None
Schema	`all-entries schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/dynamic-entry/all-entries/stats

all-entries attributes

Get Object

GET

/axapi/v3/ddos/dst/dynamic-entry/all-entries/stats

all-entries attributes

Modify Object

POST

/axapi/v3/ddos/dst/dynamic-entry/all-entries/stats

all-entries attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/dynamic-entry/all-entries/stats

all-entries attributes

all-entries attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dns_outbound_query_malformed

Description DNS Outbound Query Malformed

Type: number

Format: counter

dns_outbound_query_resp_chk_blacklisted

Description DNS Outbound Query Resp Check Blacklisted

Type: number

Format: counter

dns_outbound_query_resp_chk_failed

Description DNS Outbound Query Resp Check Failed

Type: number

Format: counter

dns_outbound_query_resp_chk_no_resp_sent

Description DNS Outbound Query Resp Check No Response Sent

Type: number

Format: counter

dns_outbound_query_resp_chk_refused_sent

Description DNS Outbound Query Resp Check REFUSED Sent

Type: number

Format: counter

dns_outbound_query_resp_chk_reset_sent

Description DNS Outbound Query Resp Check RESET Sent

Type: number

Format: counter

dns_outbound_query_resp_size_exceed

Description DNS Outbound Query Response Size Exceed

Type: number

Format: counter

dns_outbound_query_sess_timed_out

Description DNS Outbound Query Session Timed Out

Type: number

Format: counter

dns_outbound_total_query

Description DNS Outbound Total Query

Type: number

Format: counter

dst_blackhole_inject

Description Dst Blackhole Inject

Type: number

Format: counter

dst_blackhole_withdraw

Description Dst Blackhole Withdraw

Type: number

Format: counter

dst_clist_overflow_policy_at_learning

Description Dst Src-Based Overflow Policy Hit

Type: number

Format: counter

dst_entry_conn_limit_exceed

Description Entry Limit: Conn Exceeded

Type: number

Format: counter

dst_entry_conn_rate_exceed

Description Entry Rate: Conn Exceeded

Type: number

Format: counter

dst_entry_frag_pkt_rate_exceed

Description Entry Rate: Frag Packet Exceeded

Type: number

Format: counter

dst_entry_kbit_rate_exceed

Description Entry Rate: KiBit Exceeded

Type: number

Format: counter

dst_entry_kbit_rate_exceed_count

Description Entry Rate: KiBit Exceeded Count

Type: number

Format: counter

dst_entry_pkt_rate_exceed

Description Entry Rate: Packet Exceeded

Type: number

Format: counter

dst_exceed_action_drop

Description Entry Exceed Action: Dropped

Type: number

Format: counter

dst_exceed_action_tunnel

Description Entry Exceed Action: Tunnel

Type: number

Format: counter

dst_frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

dst_frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

dst_hw_drop_rule_insert

Description Dst Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_rule_remove

Description Dst Hardware Drop Rules Removed

Type: number

Format: counter

dst_icmp_any_exceed

Description ICMP Rate: Total Exceed

Type: number

Format: counter

dst_icmp_bytes_drop

Description ICMP Total Bytes Dropped

Type: number

Format: counter

dst_icmp_bytes_rcv

Description ICMP Total Bytes Received

Type: number

Format: counter

dst_icmp_bytes_sent

Description ICMP Total Bytes Forwarded

Type: number

Format: counter

dst_icmp_drop

Description ICMP Total Packets Dropped

Type: number

Format: counter

dst_icmp_frag_pkt_rate_exceed

Description ICMP Dst L4-Type Rate: Frag Exceeded

Type: number

Format: counter

dst_icmp_frag_src_rate_drop

Description ICMP Src Rate: Frag Exceeded

Type: number

Format: counter

dst_icmp_kibit_rate_drop

Description ICMP Dst Rate: KiBit Exceeded

Type: number

Format: counter

dst_icmp_pkt_rate_exceed

Description ICMP Dst Rate: Packet Exceeded

Type: number

Format: counter

dst_icmp_pkt_rcvd

Description ICMP Total Packets Received

Type: number

Format: counter

dst_icmp_pkt_sent

Description ICMP Total Packets Forwarded

Type: number

Format: counter

dst_icmp_src_drop

Description ICMP Src Packets Dropped

Type: number

Format: counter

dst_icmp_src_rate_drop

Description ICMP Src Rate: Total Exceeded

Type: number

Format: counter

dst_ip_proto_kbit_rate_exceed

Description IP-Proto Rate: KiBit Exceeded

Type: number

Format: counter

dst_ip_proto_pkt_rate_exceed

Description IP-Proto Rate: Packet Exceeded

Type: number

Format: counter

dst_l4_icmp_blacklist_drop

Description No Policy Class-list Match

Type: number

Format: counter

dst_l4_other_blacklist_drop

Description Dst L4-type OTHER Blacklist Dropped

Type: number

Format: counter

dst_l4_tcp_auth

Description TCP Dst L4-Type Auth: SYN Cookie Sent

Type: number

Format: counter

dst_l4_tcp_blacklist_drop

Description Dst L4-type TCP Blacklist Dropped

Type: number

Format: counter

dst_l4_udp_blacklist_drop

Description Dst L4-type UDP Blacklist Dropped

Type: number

Format: counter

dst_other_any_exceed

Description OTHER Rate: Total Exceed

Type: number

Format: counter

dst_other_bytes_drop

Description OTHER Total Bytes Dropped

Type: number

Format: counter

dst_other_bytes_rcv

Description OTHER Total Bytes Received

Type: number

Format: counter

dst_other_bytes_sent

Description OTHER Total Bytes Forwarded

Type: number

Format: counter

dst_other_drop

Description OTHER Total Packets Dropped

Type: number

Format: counter

dst_other_filter_action_blacklist

Description OTHER Filter Action Blacklist

Type: number

Format: counter

dst_other_filter_action_default_pass

Description OTHER Filter Action Default Pass

Type: number

Format: counter

dst_other_filter_action_drop

Description OTHER Filter Action Drop

Type: number

Format: counter

dst_other_filter_action_whitelist

Description OTHER Filter Action WL

Type: number

Format: counter

dst_other_filter_match

Description OTHER Filter Match

Type: number

Format: counter

dst_other_filter_not_match

Description OTHER Filter Not Matched on Pkt

Type: number

Format: counter

dst_other_frag_pkt_rate_exceed

Description OTHER Dst L4-Type Rate: Frag Exceeded

Type: number

Format: counter

dst_other_frag_src_rate_drop

Description OTHER Src Rate: Frag Exceeded

Type: number

Format: counter

dst_other_kibit_rate_drop

Description OTHER Dst L4-Type Rate: KiBit Exceeded

Type: number

Format: counter

dst_other_pkt_rate_exceed

Description OTHER Dst L4-Type Rate: Packet Exceeded

Type: number

Format: counter

dst_other_pkt_rcvd

Description OTHER Total Packets Received

Type: number

Format: counter

dst_other_pkt_sent

Description OTHER Total Packets Forwarded

Type: number

Format: counter

dst_other_src_drop

Description OTHER Src Packets Dropped

Type: number

Format: counter

dst_other_src_rate_drop

Description OTHER Src Rate: Total Exceeded

Type: number

Format: counter

dst_out_no_route

Description Dst IPv4/v6 Out No Route

Type: number

Format: counter

dst_pkt_sent

Description Inbound: Packets Forwarded

Type: number

Format: counter

dst_port_bl

Description Dst Port Blacklist Packets Dropped

Type: number

Format: counter

dst_port_conn_limit_exceed

Description Port Limit: Conn Exceeded

Type: number

Format: counter

dst_port_conn_rate_exceed

Description Port Rate: Conn Exceeded

Type: number

Format: counter

dst_port_kbit_rate_exceed

Description Port Rate: KiBit Exceeded

Type: number

Format: counter

dst_port_kbit_rate_exceed_pkt

Description Port Rate: KiBit Pkt Exceeded

Type: number

Format: counter

dst_port_pkt_rate_exceed

Description Port Rate: Packet Exceeded

Type: number

Format: counter

dst_port_undef_drop

Description Dst Port Undefined Dropped

Type: number

Format: counter

dst_port_undef_hit

Description Dst Port Undefined Hit

Type: number

Format: counter

dst_src_learn_overflow

Description Src Dynamic Entry Count Overflow

Type: number

Format: counter

dst_src_port_bl

Description Dst SrcPort Blacklist Packets Dropped

Type: number

Format: counter

dst_src_port_conn_limit_exceed

Description SrcPort Limit: Conn Exceeded

Type: number

Format: counter

dst_src_port_conn_rate_exceed

Description SrcPort Rate: Conn Exceeded

Type: number

Format: counter

dst_src_port_kbit_rate_exceed

Description SrcPort Rate: KiBit Exceeded

Type: number

Format: counter

dst_src_port_pkt_rate_exceed

Description SrcPort Rate: Packet Exceeded

Type: number

Format: counter

dst_tcp_action_on_ack_blacklist

Description TCP Auth: ACK Retry Timeout Blacklisted

Type: number

Format: counter

dst_tcp_action_on_ack_fail

Description TCP Auth: ACK Retry Dropped

Type: number

Format: counter

dst_tcp_action_on_ack_gap_drop

Description TCP Auth: ACK Retry Retry-Gap Dropped

Type: number

Format: counter

dst_tcp_action_on_ack_init

Description TCP Auth: ACK Retry Init

Type: number

Format: counter

dst_tcp_action_on_ack_pass

Description TCP Auth: ACK Retry Passed

Type: number

Format: counter

dst_tcp_action_on_ack_reset

Description TCP Auth: ACK Retry Timeout Reset

Type: number

Format: counter

dst_tcp_action_on_ack_timeout

Description TCP Auth: ACK Retry Timeout

Type: number

Format: counter

dst_tcp_action_on_syn_blacklist

Description TCP Auth: SYN Retry Timeout Blacklisted

Type: number

Format: counter

dst_tcp_action_on_syn_fail

Description TCP Auth: SYN Retry Dropped

Type: number

Format: counter

dst_tcp_action_on_syn_gap_drop

Description TCP Auth: SYN Retry-Gap Dropped

Type: number

Format: counter

dst_tcp_action_on_syn_init

Description TCP Auth: SYN Retry Init

Type: number

Format: counter

dst_tcp_action_on_syn_pass

Description TCP Auth: SYN Retry Passed

Type: number

Format: counter

dst_tcp_action_on_syn_reset

Description TCP Auth: SYN Retry Timeout Reset

Type: number

Format: counter

dst_tcp_action_on_syn_timeout

Description TCP Auth: SYN Retry Timeout

Type: number

Format: counter

dst_tcp_any_exceed

Description TCP Dst L4-Type Rate: Total Exceeded

Type: number

Format: counter

dst_tcp_auth

Description TCP Auth: SYN Cookie Sent

Type: number

Format: counter

dst_tcp_auth_drop

Description TCP Auth: Dropped

Type: number

Format: counter

dst_tcp_auth_pass

Description TCP Auth: SYN Auth Passed

Type: number

Format: counter

dst_tcp_auth_resp

Description TCP Auth: Responded

Type: number

Format: counter

dst_tcp_auth_rst

Description TCP Auth: Reset

Type: number

Format: counter

dst_tcp_bytes_drop

Description TCP Total Bytes Dropped

Type: number

Format: counter

dst_tcp_bytes_rcv

Description TCP Total Bytes Received

Type: number

Format: counter

dst_tcp_bytes_sent

Description TCP Total Bytes Forwarded

Type: number

Format: counter

dst_tcp_conn_close

Description TCP Connections Closed

Type: number

Format: counter

dst_tcp_conn_close_half_open

Description TCP Half Open Connections Closed

Type: number

Format: counter

dst_tcp_conn_close_w_fin

Description TCP FIN Connections Closed

Type: number

Format: counter

dst_tcp_conn_close_w_idle

Description TCP Idle Connections Closed

Type: number

Format: counter

dst_tcp_conn_close_w_rst

Description TCP RST Connections Closed

Type: number

Format: counter

dst_tcp_conn_create_from_ack

Description TCP Connections Created From ACK

Type: number

Format: counter

dst_tcp_conn_create_from_syn

Description TCP Connections Created From SYN

Type: number

Format: counter

dst_tcp_conn_limit_exceed

Description TCP Dst L4-Type Limit: Conn Exceeded

Type: number

Format: counter

dst_tcp_conn_prate_excd

Description TCP Rate: Conn Pkt Exceeded

Type: number

Format: counter

dst_tcp_conn_rate_exceed

Description TCP Dst L4-Type Rate: Conn Exceeded

Type: number

Format: counter

dst_tcp_drop

Description TCP Total Packets Dropped

Type: number

Format: counter

dst_tcp_filter_action_blacklist

Description TCP Filter Action Blacklist

Type: number

Format: counter

dst_tcp_filter_action_default_pass

Description TCP Filter Action Default Pass

Type: number

Format: counter

dst_tcp_filter_action_drop

Description TCP Filter Action Drop

Type: number

Format: counter

dst_tcp_filter_action_whitelist

Description TCP Filter Action WL

Type: number

Format: counter

dst_tcp_filter_match

Description TCP Filter Match

Type: number

Format: counter

dst_tcp_filter_not_match

Description TCP Filter Not Matched on Pkt

Type: number

Format: counter

dst_tcp_frag_pkt_rate_exceed

Description TCP Dst L4-Type Rate: Frag Exceeded

Type: number

Format: counter

dst_tcp_frag_src_rate_drop

Description TCP Src Rate: Frag Exceeded

Type: number

Format: counter

dst_tcp_kibit_rate_drop

Description TCP Dst L4-Type Rate: KiBit Exceeded

Type: number

Format: counter

dst_tcp_out_of_seq_excd

Description TCP Out-Of-Seq Exceeded

Type: number

Format: counter

dst_tcp_pkt_rate_exceed

Description TCP Dst L4-Type Rate: Packet Exceeded

Type: number

Format: counter

dst_tcp_pkt_rcvd

Description TCP Total Packets Received

Type: number

Format: counter

dst_tcp_pkt_sent

Description TCP Total Packets Forwarded

Type: number

Format: counter

dst_tcp_port_any_exceed

Description TCP Port Rate: Total Exceed

Type: number

Format: counter

dst_tcp_retransmit_excd

Description TCP Retransmit Exceeded

Type: number

Format: counter

dst_tcp_rst_cookie_fail

Description TCP Auth: RST Cookie Failed

Type: number

Format: counter

dst_tcp_session_aged

Description TCP Sessions Aged

Type: number

Format: counter

dst_tcp_session_created

Description TCP Sessions Created

Type: number

Format: counter

dst_tcp_src_drop

Description TCP Src Packets Dropped

Type: number

Format: counter

dst_tcp_src_rate_drop

Description TCP Src Rate: Total Exceeded

Type: number

Format: counter

dst_tcp_syn

Description TCP Total SYN Received

Type: number

Format: counter

dst_tcp_syn_drop

Description TCP SYN Packets Dropped

Type: number

Format: counter

dst_tcp_unauth_drop

Description TCP Auth: Unauth Dropped

Type: number

Format: counter

dst_tcp_wellknown_sport_drop

Description TCP SrcPort Wellknown

Type: number

Format: counter

dst_tcp_zero_window_excd

Description TCP Zero-Window Exceeded

Type: number

Format: counter

dst_udp_any_exceed

Description UDP Dst L4-Type Rate: Total Exceeded

Type: number

Format: counter

dst_udp_auth_drop

Description UDP Auth: Dropped

Type: number

Format: counter

dst_udp_bytes_drop

Description UDP Total Bytes Dropped

Type: number

Format: counter

dst_udp_bytes_rcv

Description UDP Total Bytes Received

Type: number

Format: counter

dst_udp_bytes_sent

Description UDP Total Bytes Forwarded

Type: number

Format: counter

dst_udp_conn_limit_exceed

Description UDP Dst L4-Type Limit: Conn Exceeded

Type: number

Format: counter

dst_udp_conn_prate_excd

Description UDP Rate: Conn Pkt Exceeded

Type: number

Format: counter

dst_udp_conn_rate_exceed

Description UDP Dst L4-Type Rate: Conn Exceeded

Type: number

Format: counter

dst_udp_drop

Description UDP Total Packets Dropped

Type: number

Format: counter

dst_udp_filter_action_blacklist

Description UDP Filter Action Blacklist

Type: number

Format: counter

dst_udp_filter_action_default_pass

Description UDP Filter Action Default Pass

Type: number

Format: counter

dst_udp_filter_action_drop

Description UDP Filter Action Drop

Type: number

Format: counter

dst_udp_filter_action_whitelist

Description UDP Filter Action WL

Type: number

Format: counter

dst_udp_filter_match

Description UDP Filter Match

Type: number

Format: counter

dst_udp_filter_not_match

Description UDP Filter Not Matched on Pkt

Type: number

Format: counter

dst_udp_frag_pkt_rate_exceed

Description UDP Dst L4-Type Rate: Frag Exceeded

Type: number

Format: counter

dst_udp_frag_src_rate_drop

Description UDP Src Rate: Frag Exceeded

Type: number

Format: counter

dst_udp_kibit_rate_drop

Description UDP Dst L4-Type Rate: KiBit Exceeded

Type: number

Format: counter

dst_udp_ntp_monlist_req

Description UDP NTP Monlist Request

Type: number

Format: counter

dst_udp_ntp_monlist_resp

Description UDP NTP Monlist Response

Type: number

Format: counter

dst_udp_pkt_rate_exceed

Description UDP Dst L4-Type Rate: Packet Exceeded

Type: number

Format: counter

dst_udp_pkt_rcvd

Description UDP Total Packets Received

Type: number

Format: counter

dst_udp_pkt_sent

Description UDP Total Packets Forwarded

Type: number

Format: counter

dst_udp_port_any_exceed

Description UDP Port Rate: Total Exceed

Type: number

Format: counter

dst_udp_retry_fail

Description UDP P Sessions Aged

Type: number

Format: counter

dst_udp_retry_gap_drop

Description UDP Auth: Retry-Gap Dropped

Type: number

Format: counter

dst_udp_retry_init

Description UDP Auth: Retry Init

Type: number

Format: counter

dst_udp_retry_pass

Description UDP Auth: Retry Passed

Type: number

Format: counter

dst_udp_session_aged

Description UDP Sessions Aged

Type: number

Format: counter

dst_udp_session_created

Description UDP Sessions Created

Type: number

Format: counter

dst_udp_src_drop

Description UDP Src Packets Dropped

Type: number

Format: counter

dst_udp_src_rate_drop

Description UDP Src Rate: Total Exceeded

Type: number

Format: counter

dst_udp_wellknown_sport_drop

Description UDP SrcPort Wellknown

Type: number

Format: counter

egress_bytes

Description Outbound: Bytes Received

Type: number

Format: counter

egress_packets

Description Outbound: Packets Received

Type: number

Format: counter

entry_sync_message_received

Description Entry Sync Message Received

Type: number

Format: counter

entry_sync_message_sent

Description Entry Sync Message Sent

Type: number

Format: counter

icmp_fwd_recv

Description ICMP Inbound Packets Received

Type: number

Format: counter

inbound_bytes_drop

Description Inbound: Bytes Dropped

Type: number

Format: counter

inbound_bytes_sent

Description Inbound: Bytes Forwarded

Type: number

Format: counter

inbound_pkt_drop

Description Inbound: Packets Dropped

Type: number

Format: counter

ingress_bytes

Description Inbound: Bytes Received

Type: number

Format: counter

ingress_packets

Description Inbound: Packets Received

Type: number

Format: counter

no_policy_class_list_match

Description No Policy Class-list Match

Type: number

Format: counter

outbound_bytes_drop

Description Outbound: Bytes Dropped

Type: number

Format: counter

outbound_bytes_sent

Description Outbound: Bytes Forwarded

Type: number

Format: counter

outbound_pkt_drop

Description Outbound: Packets Dropped

Type: number

Format: counter

outbound_pkt_sent

Description Outbound: Packets Forwarded

Type: number

Format: counter

prog_conn_exceed_bl

Description Connection: Violation Exceed Blacklisted

Type: number

Format: counter

prog_conn_exceed_drop

Description Connection: Violation Exceed Dropped

Type: number

Format: counter

prog_conn_rcvd_exceed

Description Connection: Received Exceed

Type: number

Format: counter

prog_conn_rcvd_sent_ratio_exceed

Description Connection: Reveived to Sent Ratio Exceed

Type: number

Format: counter

prog_conn_sent_exceed

Description Connection: Sent Exceed

Type: number

Format: counter

prog_conn_time_exceed

Description Connection: Time Exceed

Type: number

Format: counter

prog_exceed_bl

Description Req-Resp: Violation Exceed Blacklisted

Type: number

Format: counter

prog_exceed_drop

Description Req-Resp: Violation Exceed Dropped

Type: number

Format: counter

prog_first_req_time_exceed

Description Req-Resp: First Request Time Exceed

Type: number

Format: counter

prog_query_exceed

Description Req-Resp: Client Query Time Exceed

Type: number

Format: counter

prog_req_resp_time_exceed

Description Req-Resp: Request to Response Time Exceed

Type: number

Format: counter

prog_request_len_exceed

Description Req-Resp: Request Length Exceed

Type: number

Format: counter

prog_resp_pkt_rate_exceed

Description Req-Resp: Response Packet Rate Exceed

Type: number

Format: counter

prog_resp_req_time_exceed

Description Req-Resp: Response to Request Time Exceed

Type: number

Format: counter

prog_response_len_exceed

Description Req-Resp: Response Length Exceed

Type: number

Format: counter

prog_think_exceed

Description Req-Resp: Server Think Time Exceed

Type: number

Format: counter

prog_win_exceed_bl

Description Time Window: Violation Exceed Blacklisted

Type: number

Format: counter

prog_win_exceed_drop

Description Time Window: Violation Exceed Dropped

Type: number

Format: counter

prog_win_rcvd_exceed

Description Time Window: Received Exceed

Type: number

Format: counter

prog_win_rcvd_sent_ratio_exceed

Description Time Window: Received to Sent Exceed

Type: number

Format: counter

prog_win_sent_exceed

Description Time Window: Sent Exceed

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

src_dst_pair_entry_icmp

Description Src-Dst Pair Entry ICMP Count

Type: number

Format: counter

src_dst_pair_entry_other

Description Src-Dst Pair Entry OTHER Count

Type: number

Format: counter

src_dst_pair_entry_tcp

Description Src-Dst Pair Entry TCP Count

Type: number

Format: counter

src_dst_pair_entry_total

Description Src-Dst Pair Entry Total Count

Type: number

Format: counter

src_dst_pair_entry_udp

Description Src-Dst Pair Entry UDP Count

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_hw_drop_rule_insert

Description Src Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_rule_remove

Description Src Hardware Drop Rules Removed

Type: number

Format: counter

src_l4_icmp_blacklist_drop

Description Src L4-type ICMP Blacklist Dropped

Type: number

Format: counter

src_l4_other_blacklist_drop

Description Src L4-type OTHER Blacklist Dropped

Type: number

Format: counter

src_l4_tcp_blacklist_drop

Description Src L4-type TCP Blacklist Dropped

Type: number

Format: counter

src_l4_udp_blacklist_drop

Description Src L4-type UDP Blacklist Dropped

Type: number

Format: counter

src_other_filter_action_blacklist

Description Src OTHER Filter Action Blacklist

Type: number

Format: counter

src_other_filter_action_default_pass

Description Src OTHER Filter Action Default Pass

Type: number

Format: counter

src_other_filter_action_drop

Description Src OTHER Filter Action Drop

Type: number

Format: counter

src_other_filter_action_whitelist

Description Src OTHER Filter Action WL

Type: number

Format: counter

src_tcp_action_on_ack_blacklist

Description Src TCP Auth: ACK Retry Timeout Blacklisted

Type: number

Format: counter

src_tcp_action_on_ack_fail

Description Src TCP Auth: ACK Retry Dropped

Type: number

Format: counter

src_tcp_action_on_ack_gap_drop

Description Src TCP Auth: ACK Retry Retry-Gap Dropped

Type: number

Format: counter

src_tcp_action_on_ack_init

Description Src TCP Auth: ACK Retry Init

Type: number

Format: counter

src_tcp_action_on_ack_reset

Description Src TCP Auth: ACK Retry Timeout Reset

Type: number

Format: counter

src_tcp_action_on_ack_timeout

Description Src TCP Auth: ACK Retry Timeout

Type: number

Format: counter

src_tcp_action_on_syn_blacklist

Description Src TCP Auth: SYN Retry Timeout Blacklisted

Type: number

Format: counter

src_tcp_action_on_syn_fail

Description Src TCP Auth: SYN Retry Dropped

Type: number

Format: counter

src_tcp_action_on_syn_gap_drop

Description Src TCP Auth: SYN Retry-Gap Dropped

Type: number

Format: counter

src_tcp_action_on_syn_init

Description Src TCP Auth: SYN Retry Init

Type: number

Format: counter

src_tcp_action_on_syn_reset

Description Src TCP Auth: SYN Retry Timeout Reset

Type: number

Format: counter

src_tcp_action_on_syn_timeout

Description Src TCP Auth: SYN Retry Timeout

Type: number

Format: counter

src_tcp_conn_prate_excd

Description Src TCP Rate: Conn Pkt Exceeded

Type: number

Format: counter

src_tcp_filter_action_blacklist

Description Src TCP Filter Action Blacklist

Type: number

Format: counter

src_tcp_filter_action_default_pass

Description Src TCP Filter Action Default Pass

Type: number

Format: counter

src_tcp_filter_action_drop

Description Src TCP Filter Action Drop

Type: number

Format: counter

src_tcp_filter_action_whitelist

Description Src TCP Filter Action WL

Type: number

Format: counter

src_tcp_out_of_seq_excd

Description Src TCP Out-Of-Seq Exceeded

Type: number

Format: counter

src_tcp_retransmit_excd

Description Src TCP Retransmit Exceeded

Type: number

Format: counter

src_tcp_rst_cookie_fail

Description Src TCP Auth: RST Cookie Failed

Type: number

Format: counter

src_tcp_syn_auth_fail

Description Src TCP Auth: SYN Auth Failed

Type: number

Format: counter

src_tcp_syn_cookie_fail

Description Src TCP Auth: SYN Cookie Failed

Type: number

Format: counter

src_tcp_syn_cookie_sent

Description Src TCP Auth: SYN Cookie Sent

Type: number

Format: counter

src_tcp_unauth_drop

Description Src TCP Auth: Unauth Dropped

Type: number

Format: counter

src_tcp_wellknown_sport_drop

Description Src TCP SrcPort Wellknown

Type: number

Format: counter

src_tcp_zero_window_excd

Description Src TCP Zero-Window Exceeded

Type: number

Format: counter

src_udp_auth_timeout

Description Src UDP Auth: Retry Timeout

Type: number

Format: counter

src_udp_conn_prate_excd

Description Src UDP Rate: Conn Pkt Exceeded

Type: number

Format: counter

src_udp_filter_action_blacklist

Description Src UDP Filter Action Blacklist

Type: number

Format: counter

src_udp_filter_action_default_pass

Description Src UDP Filter Action Default Pass

Type: number

Format: counter

src_udp_filter_action_drop

Description Src UDP Filter Action Drop

Type: number

Format: counter

src_udp_filter_action_whitelist

Description Src UDP Filter Action WL

Type: number

Format: counter

src_udp_max_payload

Description Src UDP Payload Too Large

Type: number

Format: counter

src_udp_min_payload

Description Src UDP Payload Too Small

Type: number

Format: counter

src_udp_ntp_monlist_req

Description Src UDP NTP Monlist Request

Type: number

Format: counter

src_udp_ntp_monlist_resp

Description Src UDP NTP Monlist Response

Type: number

Format: counter

src_udp_retry_gap_drop

Description Src UDP Auth: Retry-Gap Dropped

Type: number

Format: counter

src_udp_retry_init

Description Src UDP Auth: Retry Init

Type: number

Format: counter

src_udp_retry_pass

Description Src UDP Retry Passed

Type: number

Format: counter

src_udp_wellknown_sport_drop

Description Src UDP SrcPort Wellknown

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_fwd_recv

Description TCP Inbound Packets Received

Type: number

Format: counter

tcp_fwd_sent

Description TCP Inbound Packets Forwarded

Type: number

Format: counter

tcp_invalid_syn

Description TCP Invalid SYN Received

Type: number

Format: counter

tcp_l4_rst_cookie_fail

Description TCP Dst L4-Type Auth: RST Cookie Failed

Type: number

Format: counter

tcp_l4_syn_cookie_fail

Description TCP Dst L4-Type Auth: SYN Cookie Failed

Type: number

Format: counter

tcp_l4_unauth_drop

Description TCP Dst L4-Type Auth: Unauth Dropped

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP SYN Retransmit Exceeded Blacklist

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP SYN Retransmit Exceeded Drop

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_cookie_fail

Description TCP Auth: SYN Cookie Failed

Type: number

Format: counter

tcp_syn_rcvd

Description TCP Inbound SYN Received

Type: number

Format: counter

udp_fwd_recv

Description UDP Inbound Packets Received

Type: number

Format: counter

udp_fwd_sent

Description UDP Inbound Packets Forwarded

Type: number

Format: counter

udp_payload_too_big

Description UDP Payload Too Large

Type: number

Format: counter

udp_payload_too_small

Description UDP Payload Too Small

Type: number

Format: counter

2.33.63 ddos dst dynamic-entry oper

Operational Status for the object dynamic-entry

dynamic-entry Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dynamic-entry
Element URI	/axapi/v3/ddos/dst/dynamic-entry/oper
Element Attributes	dynamic-entry_attributes
Partition Visibility	None
Schema	`dynamic-entry schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/dynamic-entry/oper

dynamic-entry attributes

Get Object

GET

/axapi/v3/ddos/dst/dynamic-entry/oper

dynamic-entry attributes

Modify Object

POST

/axapi/v3/ddos/dst/dynamic-entry/oper

dynamic-entry attributes

Replace Object

PUT

/axapi/v3/ddos/dst/dynamic-entry/oper

dynamic-entry attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/dynamic-entry/oper

dynamic-entry attributes

dynamic-entry attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ip-protos

Description

Type: boolean

Supported Values: true, false, 1, 0

all-l4-types

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

all-src-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

black-holed

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

ip-proto-num

Description

Type: number

ip_conn_total

Description

Type: number

ipv6

Description

Type: string

Format: ipv6-address

ipv6_conn_total

Description

Type: number

l4-type-str

Description

Type: string

max-count

Description

Type: number

overflow-policy

Description

Type: string

port-num

Description

Type: number

port-range-end

Description

Type: number

port-range-start

Description

Type: number

protocol

Description

Type: string

resource-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

service-displayed-count

Description

Type: number

sport-protocol

Description

Type: string

src-port-num

Description

Type: number

src-port-range-end

Description

Type: number

src-port-range-start

Description

Type: number

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

2.33.64 ddos dst dynamic-entry-overflow-policy

Configure IP/IPv6 Policy Used When Dynamic Dst Entry Count overflows

dynamic-entry-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*default-address-type*
Collection Name	*dynamic-entry-overflow-policy-list*
Collection URI	/axapi/v3/ddos/dst/dynamic-entry-overflow-policy
Element Name	dynamic-entry-overflow-policy
Element URI	/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}
Element Attributes	dynamic-entry-overflow-policy_attributes
Partition Visibility	shared
Schema	`dynamic-entry-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}

dynamic-entry-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}

dynamic-entry-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}

dynamic-entry-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}

dynamic-entry-overflow-policy attributes

dynamic-entry-overflow-policy-list

dynamic-entry-overflow-policy-list is **JSON List** of *dynamic-entry-overflow-policy attributes*

dynamic-entry-overflow-policy-list : [

{ *dynamic-entry-overflow-policy attributes* },

{ *dynamic-entry-overflow-policy attributes* },

...

]

dynamic-entry-overflow-policy attributes

default-address-type

Description 'ip': ip; 'ipv6': ipv6;

Type: string

Supported Values: ip, ipv6

drop-disable

Description Disable certain drops during packet processing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-disable-fwd-immediate

Description Immediately forward L4 drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *exceed-log-cfg*

Type: Object

exceed-log-dep-cfg

Description: exceed-log-dep-cfg is a **JSON Block**. Please see below for *exceed-log-dep-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

inbound-forward-dscp

Description To set dscp value for inbound packets (DSCP Value for the clear traffic marking)

Type: number

Range: 1-63

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/ip-proto/{port-num}*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

outbound-forward-dscp

Description To set dscp value for outbound

Type: number

Range: 1-63

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/port/{port-num}+{protocol}*

src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/src-port/{port-num}+{protocol}*

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-tcp': dns-tcp; 'dns-udp': dns-udp; 'http': http; 'tcp': tcp; 'udp': udp; 'ssl-l4': ssl-l4; 'sip-udp': sip-udp; 'sip-tcp': sip-tcp;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

template

Description: template is a **JSON Block**. Please see below for *port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Protocol Number

Type: number

Range: 0-255

template

Description: template is a **JSON Block**. Please see below for *ip-proto-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto-list_template

Specification	Value
Type	*object*

other

Description DDOS other template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

with-sflow-sample

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-dep-cfg

Specification	Value
Type	*object*

exceed-log-enable

Description (Deprecated)Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-with-sflow-dep

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'udp': udp; 'tcp': tcp;

Type: string

Supported Values: udp, tcp

template

Description: template is a **JSON Block**. Please see below for *src-port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port-list_template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-port-match

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow. Exceed action set to Drop

Type: number

Range: 1-6

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-client

Description Send reset to client when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-server

Description Send reset to server when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *l4-type-list_tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

2.33.65 ddos dst dynamic-entry-overflow-policy ip-proto

DDOS IP protocol configuration

ip-proto Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num*
Collection Name	*ip-proto-list*
Collection URI	/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/ip-proto
Element Name	ip-proto
Element URI	/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/ip-proto/{port-num}
Element Attributes	ip-proto_attributes
Partition Visibility	shared
Schema	`ip-proto schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/ip-proto

ip-proto attributes

Create List

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/ip-proto

ip-proto attributes

Get Object

GET

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/ip-proto/{port-num}

ip-proto attributes

Get List

GET

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/ip-proto

ip-proto-list

Modify Object

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/ip-proto/{port-num}

ip-proto attributes

Replace Object

PUT

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/ip-proto/{port-num}

ip-proto attributes

Replace List

PUT

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/ip-proto

ip-proto-list

Delete Object

DELETE

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/ip-proto/{port-num}

ip-proto attributes

ip-proto-list

ip-proto-list is **JSON List** of *ip-proto attributes*

ip-proto-list : [

{ *ip-proto attributes* },

{ *ip-proto attributes* },

...

]

ip-proto attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Protocol Number

Type: number

Range: 0-255

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

other

Description DDOS other template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.66 ddos dst dynamic-entry-overflow-policy l4-type

DDOS L4 type

l4-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-list*
Collection URI	/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/l4-type
Element Name	l4-type
Element URI	/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}
Element Attributes	l4-type_attributes
Partition Visibility	shared
Schema	`l4-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/l4-type

l4-type attributes

Create List

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/l4-type

l4-type attributes

Get Object

GET

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}

l4-type attributes

Get List

GET

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/l4-type

l4-type-list

Modify Object

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}

l4-type attributes

Replace Object

PUT

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}

l4-type attributes

Replace List

PUT

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/l4-type

l4-type-list

Delete Object

DELETE

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}

l4-type attributes

l4-type-list

l4-type-list is **JSON List** of *l4-type attributes*

```
l4-type-list : [
        { l4-type attributes },
        { l4-type attributes },
        ...
    ]
```

l4-type attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-port-match

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow. Exceed action set to Drop

Type: number

Range: 1-6

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-client

Description Send reset to client when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-server

Description Send reset to server when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

2.33.67 ddos dst dynamic-entry-overflow-policy port

DDOS Port & Protocol configuration

port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num, protocol*
Collection Name	*port-list*
Collection URI	/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/port
Element Name	port
Element URI	/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/port/{port-num}+{protocol}
Element Attributes	port_attributes
Partition Visibility	shared
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/port

port attributes

Create List

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/port

port attributes

Get Object

GET

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/port/{port-num}+{protocol}

port attributes

Get List

GET

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/port

port-list

Modify Object

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/port/{port-num}+{protocol}

port attributes

Replace Object

PUT

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/port/{port-num}+{protocol}

port attributes

Replace List

PUT

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/port

port-list

Delete Object

DELETE

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/port/{port-num}+{protocol}

port attributes

port-list

port-list is **JSON List** of *port attributes*

```
port-list : [
        { port attributes },
        { port attributes },
        ...
    ]
```

port attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-tcp': dns-tcp; 'dns-udp': dns-udp; 'http': http; 'tcp': tcp; 'udp': udp; 'ssl-l4': ssl-l4; 'sip-udp': sip-udp; 'sip-tcp': sip-tcp;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.68 ddos dst dynamic-entry-overflow-policy src-port

DDOS Source Port & Protocol configuration

src-port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num, protocol*
Collection Name	*src-port-list*
Collection URI	/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/src-port
Element Name	src-port
Element URI	/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/src-port/{port-num}+{protocol}
Element Attributes	src-port_attributes
Partition Visibility	shared
Schema	`src-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/src-port

src-port attributes

Create List

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/src-port

src-port attributes

Get Object

GET

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/src-port/{port-num}+{protocol}

src-port attributes

Get List

GET

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/src-port

src-port-list

Modify Object

POST

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/src-port/{port-num}+{protocol}

src-port attributes

Replace Object

PUT

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/src-port/{port-num}+{protocol}

src-port attributes

Replace List

PUT

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/src-port

src-port-list

Delete Object

DELETE

/axapi/v3/ddos/dst/dynamic-entry-overflow-policy/{default-address-type}/src-port/{port-num}+{protocol}

src-port attributes

src-port-list

src-port-list is **JSON List** of *src-port attributes*

```
src-port-list : [
        { src-port attributes },
        { src-port attributes },
        ...
    ]
```

src-port attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'udp': udp; 'tcp': tcp;

Type: string

Supported Values: udp, tcp

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.69 ddos dst entry

Configure IP/IPv6 static entry

entry Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dst-entry-name*
Collection Name	*entry-list*
Collection URI	/axapi/v3/ddos/dst/entry
Element Name	entry
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}
Element Attributes	entry_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/stats
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/oper
Schema	`entry schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry

entry attributes

```
POST /axapi/v3/ddos/dst/entry/
Payload:
{
    "entry": {
        "dst-entry-name": "a",
```

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```
        "ipv6-addr": "2003::1"
    }
}
```

Create List

POST

/axapi/v3/ddos/dst/entry

entry attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}

entry attributes

```
GET /axapi/v3/ddos/dst/entry/a
Reponse:
{
    "entry": {
        "dst-entry-name": "a",
        "ipv6-addr": "2003::1",
        "exceed-log-cfg": {
            "log-enable": 0,
            "log-high-frequency": 0
        },
        "log-periodic": 0,
        "drop-frag-pkt": 0,
        "sflow": {
            "polling": {
                "sflow-packets": 0,
                "sflow-layer-4": 0,
                "sflow-tcp": {
                    "sflow-tcp-basic": 0,
                    "sflow-tcp-stateful": 0
                },
                "sflow-http": 0,
                "sflow-undef-port-hit-stats": 0,
                "sflow-undef-port-hit-stats-brief": 0
            }
        },
        "drop-on-no-src-dst-default": 0,
        "drop-disable": 0,
        "operational-mode": "protection",
        "reporting-disabled": 0,
        "advertised-enable": 0,
        "uuid": "663433da-085d-11f0-bc03-3dc8e3bd18dc",
        "topk-destinations": {
            "uuid": "66345b1c-085d-11f0-bc03-3dc8e3bd18dc",
            "a10-url": "/axapi/v3/ddos/dst/entry/a/topk-destinations"
        },
```

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```
        "a10-url": "/axapi/v3/ddos/dst/entry/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/dst/entry

entry-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}

entry attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}

entry attributes

```
PUT /axapi/v3/ddos/dst/entry/a
Payload:
{
    "entry": {
        "dst-entry-name": "a",
        "ipv6-addr": "2003::1"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/dst/entry

entry-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}

entry attributes

```
DELETE /axapi/v3/ddos/dst/entry/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
```

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```
        "msg": "Success"
    }
}
```

entry-list

entry-list is **JSON List** of *entry attributes*

entry-list : [

{ *entry attributes* },

{ *entry attributes* },

...

]

entry attributes

advertised-enable

Description BGP advertised

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

blackhole-on-glid-exceed

Description Blackhole destination entry for X minutes upon glid limit exceeded

Type: number

Range: 1-30

capture-config-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/capture-config/{name}*

description

Description Description for this Destination Entry

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dest-nat-ip

Description Destination NAT IP address

Type: string

Format: ipv4-address

dest-nat-ipv6

Description Destination NAT IPv6 address

Type: string

Format: ipv6-address

drop-disable

Description Disable certain drops during packet processing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-disable-fwd-immediate

Description Immediately forward L4 drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-src-dst-default

Description Drop if no match with src-based-policy class-list, and default is not configured

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-entry-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}*

enable-top-k

Type: List

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *exceed-log-cfg*

Type: Object

exceed-log-dep-cfg

Description: exceed-log-dep-cfg is a **JSON Block**. Please see below for *exceed-log-dep-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *glid-exceed-action*

Type: Object

hw-blacklist-blocking

Description: hw-blacklist-blocking is a **JSON Block**. Please see below for *hw-blacklist-blocking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/hw-blacklist-blocking*

inbound-forward-dscp

Description To set dscp value for inbound packets (DSCP Value for the clear traffic marking)

Type: number

Range: 1-63

ip-addr

Description

Type: string

Format: ipv4-address

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}*

ipv6-addr

Description

Type: string

Format: ipv6-address

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

operational-mode

Description 'protection': Protection mode; 'bypass': Bypass mode;

Type: string

Supported Values: protection, bypass

Default: protection

outbound-forward-dscp

Description To set dscp value for outbound

Type: number

Range: 1-63

pattern-recognition-hw-filter-enable

Description to enable pattern recognition hardware filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition-sensitivity

Description 'high': High sensitive pattern recognition; 'medium': Medium sensitive pattern recognition; 'low': Low sensitive pattern recognition;

Type: string

Supported Values: high, medium, low

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}*

reporting-disabled

Description Disable Reporting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Type: List

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow

Description: sflow is a **JSON Block**. Please see below for *sflow*

Type: Object

source-nat-pool

Description Configure source NAT

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-dst-pair

Description: src-dst-pair is a **JSON Block**. Please see below for *src-dst-pair*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair*

src-dst-pair-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}*

src-dst-pair-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}*

src-dst-pair-settings-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}*

src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}*

src-port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}*

subnet-ip-addr

Description IP Subnet

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description IPV6 Subnet

Type: string

Format: ipv6-address-plen

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description: capture-config is a **JSON Block**. Please see below for *port-list_capture-config*

Type: Object

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detection-enable

Description Enable ddos detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-cache

Description DNS Cache Instance

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/dns-cache*

enable-top-k

Description Enable ddos top-k entries

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *port-list_glid-exceed-action*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *port-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *port-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind*

port-num

Description Port Number

Type: number

Range: 0-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *port-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow

Description: sflow is a **JSON Block**. Please see below for *port-list_sflow*

Type: Object

signature-extraction

Description: signature-extraction is a **JSON Block**. Please see below for *port-list_signature-extraction*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/signature-extraction*

template

Description: template is a **JSON Block**. Please see below for *port-list_template*

Type: Object

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *port-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list_signature-extraction

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

manual-mode

Description Enable manual mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

port-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *port-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

port-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

port-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_bit_rate_current':

Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max

port-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list_sflow

Specification	Value
Type	*object*

polling

Description: polling is a **JSON Block**. Please see below for *port-list_sflow_polling*

Type: Object

port-list_sflow_polling

Specification	Value
Type	*object*

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *port-list_sflow_polling_sflow-tcp*

Type: Object

port-list_sflow_polling_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

capture-config-list

Specification	Value
Type	*list*
Block object keys	

mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dummy-name

Description 'configuration': Configure src dst dynamic entry count overflow policy;

Type: string

Supported Values: configuration

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-range-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description: capture-config is a **JSON Block**. Please see below for *port-range-list_capture-config*

Type: Object

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detection-enable

Description Enable ddos detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k entries

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *port-range-list_glid-exceed-action*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *port-range-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *port-range-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-range-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *port-range-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow

Description: sflow is a **JSON Block**. Please see below for *port-range-list_sflow*

Type: Object

template

Description: template is a **JSON Block**. Please see below for *port-range-list_template*

Type: Object

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *port-range-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

port-range-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *port-range-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

port-range-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

port-range-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max':

Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current,

ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max

port-range-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_sflow

Specification	Value
Type	*object*

polling

Description: polling is a **JSON Block**. Please see below for *port-range-list_sflow_polling*

Type: Object

port-range-list_sflow_polling

Specification	Value
Type	*object*

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *port-range-list_sflow_polling_sflow-tcp*

Type: Object

port-range-list_sflow_polling_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-range-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

hw-blacklist-blocking

Specification	Value
Type	*object*

dst-enable

Description Enable Dst side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-enable

Description Enable Src side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-class-list-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst/{protocol}*

cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}*

class-list-name

Description Class-list name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *src-dst-pair-class-list-list_exceed-log-cfg*

Type: Object

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-class-list-list_cid-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid/{protocol}*

cid-num

Description Class-list id

Type: number

Range: 1-32

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *src-dst-pair-class-list-list_cid-list_exceed-log-cfg*

Type: Object

l4-type-src-dst-cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-class-list-list_cid-list_app-type-src-dst-cid-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *src-dst-pair-class-list-list_cid-list_app-type-src-dst-cid-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-class-list-list_cid-list_app-type-src-dst-cid-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-dst-pair-class-list-list_cid-list_l4-type-src-dst-cid-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *src-dst-pair-class-list-list_cid-list_l4-type-src-dst-cid-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-class-list-list_cid-list_l4-type-src-dst-cid-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-dst-pair-class-list-list_cid-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dst-pair-class-list-list_app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *src-dst-pair-class-list-list_app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-class-list-list_app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-dst-pair-class-list-list_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *src-dst-pair-class-list-list_l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-class-list-list_l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-dst-pair-class-list-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *glid-exceed-action_stateless-encap-action-cfg*

Type: Object

glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detection-enable

Description Enable ddos detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-syn-auth

Description Disable TCP SYN Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-port-match

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

enable-top-k

Description Enable ddos top-k entries

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *l4-type-list_glid-exceed-action*

Type: Object

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow

Type: number

Range: 1-6

max-rexmit-syn-per-flow-exceed-action

Description 'drop': Drop the packet; 'black-list': Add the source IP into black list;

Type: string

Supported Values: drop, black-list

port-ind

Description: port-ind is a **JSON Block**. Please see below for *l4-type-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *l4-type-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking*

protocol

Description 'tcp': L4-Type TCP; 'udp': L4-Type UDP; 'icmp': L4-Type ICMP; 'other': L4-Type OTHER;

Type: string

Supported Values: tcp, udp, icmp, other

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-client

Description Send reset to client when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-server

Description Send reset to server when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *l4-type-list_template*

Type: Object

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *l4-type-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources*

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *l4-type-list_tunnel-rate-limit*

Type: Object

undefined-port-hit-statistics

Description: undefined-port-hit-statistics is a **JSON Block**. Please see below for *l4-type-list_undefined-port-hit-statistics*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list_undefined-port-hit-statistics

Specification	Value
Type	*object*

reset-interval

Description Configure port scanning counter reset interval (minutes), Default 60 mins

Type: number

Range: 1-64000

Default: 60

undefined-port-hit-statistics

Description Enable port scanning statistics

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

l4-type-list_template

Specification	Value
Type	*object*

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

l4-type-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *l4-type-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

l4-type-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

l4-type-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_bit_rate_current':

Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max

l4-type-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

l4-type-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-settings-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

all-types

Description 'all-types': Settings for all types (default or class-list);

Type: string

Supported Values: all-types

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for DST entry or each class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst/{protocol}*

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry

Type: number

Range: 0-2147483647

src-prefix-len

Description Specify src prefix length for IPv6 (default: not set)

Type: number

Range: 32-127

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-settings-list_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry

Type: number

Range: 0-2147483647

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port-range-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'udp': UDP Port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

src-port-range-end

Description Src Port-Range End Port Number

Type: number

Range: 2-65535

src-port-range-start

Description Src Port-Range Start Port Number

Type: number

Range: 1-65535

template

Description: template is a **JSON Block**. Please see below for *src-port-range-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port-range-list_template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

esp-inspect

Description: esp-inspect is a **JSON Block**. Please see below for *ip-proto-list_esp-inspect*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *ip-proto-list_glid-exceed-action*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

port-num

Description Protocol Number

Type: number

Range: 0-255

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

template

Description: template is a **JSON Block**. Please see below for *ip-proto-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto-list_esp-inspect

Specification	Value
Type	*object*

auth-algorithm

Description 'AUTH_NULL': No Integrity Check Value; 'HMAC-SHA-1-96': 96 bit Auth Algo; 'HMAC-SHA-256-96': 96 bit Auth Algo; 'HMAC-SHA-256-128': 128 bit Auth Algo; 'HMAC-SHA-384-192': 192 bit Auth Algo; 'HMAC-SHA-512-256': 256 bit Auth Algo; 'HMAC-MD5-96': 96 bit Auth Algo; 'MAC-RIPEMD-160-96': 96 bit Auth Algo;

Type: string

Supported Values: AUTH_NULL, HMAC-SHA-1-96, HMAC-SHA-256-96, HMAC-SHA-256-128, HMAC-SHA-384-192, HMAC-SHA-512-256, HMAC-MD5-96, MAC-RIPEMD-160-96

encrypt-algorithm

Description 'NULL': Null Encryption Algorithm;

Type: string

Supported Values: NULL

mode

Description 'transport': Transport mode;

Type: string

Supported Values: transport

ip-proto-list_template

Specification	Value
Type	*object*

other

Description DDOS other template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ip-proto-list_glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *ip-proto-list_glid-exceed-action_stateless-encap-action-cfg*

Type: Object

ip-proto-list_glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

src-port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

outbound-src-tracking

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-udp': DNS-UDP Port; 'dns-tcp': DNS-TCP Port; 'udp': UDP Port; 'tcp': TCP Port;

Type: string

Supported Values: dns-udp, dns-tcp, udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

template

Description: template is a **JSON Block**. Please see below for *src-port-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port-list_template

Specification	Value
Type	*object*

src-dns

Description DDOS dns src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-high-frequency

Description Enable High frequency logging for non-event logs per entry

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-with-sflow

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

rate-limit

Description Rate limit per second per entry(Default : 1 per second)

Type: number

Range: 1-1000

Default: 1

sflow

Specification	Value
Type	*object*

collector

Type: List

polling

Description: polling is a **JSON Block**. Please see below for *sflow_polling*

Type: Object

sflow_collector

Specification	Value
Type	*list*
Block object keys	

sflow-name

Description Name of configured custom sFlow collector

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/sflow/collector/custom*

sflow_polling

Specification	Value
Type	*object*

sflow-http

Description Enable sFlow HTTP counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the total number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-layer-4

Description Enable sFlow Layer 4 counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the total num

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-packets

Description Enable sFlow packet-level counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the tota

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *sflow_polling_sflow-tcp*

Type: Object

sflow-undef-port-hit-stats

Description Enable sFlow undefined-port-hit-statistics polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-undef-port-hit-stats-brief

Description Enable sFlow undefined-port-hit-statistics polling in brief mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow_polling_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the total n

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling. WARNING: Entry level Sflow polling might induce heavy CPU load depending on the tota

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dst-pair

Specification	Value
Type	*object*

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default

Description Configure default

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *src-dst-pair_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *src-dst-pair_template*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-dst-pair_app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *src-dst-pair_app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair_app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-dst-pair_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *src-dst-pair_l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair_l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-dst-pair_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dst-pair-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Src-based-policy name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *src-dst-pair-policy-list_policy-class-list-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry under class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

template

Description: template is a **JSON Block**. Please see below for *src-dst-pair-policy-list_policy-class-list-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-policy-list_policy-class-list-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-dst-pair-policy-list_policy-class-list-list_app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *src-dst-pair-policy-list_policy-class-list-list_app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-policy-list_policy-class-list-list_app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-dst-pair-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow

src-dst-pair-policy-list_policy-class-list-list_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *src-dst-pair-policy-list_policy-class-list-list_l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-policy-list_policy-class-list-list_l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-overflow-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dummy-name

Description 'configuration': Configure src dst dynamic entry count overflow policy for class-list;

Type: string

Supported Values: configuration

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-overflow-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_l4-type-src-dst-overflow-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_l4-type-src-dst-overflow-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_l4-type-src-dst-overflow-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_app-type-src-dst-overflow-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_app-type-src-dst-overflow-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_app-type-src-dst-overflow-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-dst-pair-policy-list_policy-class-list-list_class-list-overflow-policy-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dst-pair-policy-list_policy-class-list-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'dst_tcp_any_exceed': TCP Dst L4-Type Rate: Total Exceeded; 'dst_tcp_pkt_rate_exceed': TCP Dst L4-Type Rate: Packet Exceeded; 'dst_tcp_conn_rate_exceed': TCP Dst L4-Type Rate: Conn Exceeded; 'dst_udp_any_exceed': UDP Dst L4-Type Rate: Total Exceeded; 'dst_udp_pkt_rate_exceed': UDP Dst L4-Type Rate: Packet Exceeded; 'dst_udp_conn_limit_exceed': UDP Dst L4-Type Limit: Conn Exceeded; 'dst_udp_conn_rate_exceed': UDP Dst L4-Type Rate: Conn Exceeded; 'dst_icmp_pkt_rate_exceed': ICMP Dst Rate: Packet Exceeded; 'dst_other_pkt_rate_exceed': OTHER Dst L4-Type Rate: Packet Exceeded; 'dst_other_frag_pkt_rate_exceed': OTHER Dst L4-Type Rate: Frag Exceeded; 'dst_port_pkt_rate_exceed': Port Rate: Packet Exceeded; 'dst_port_conn_limit_exceed': Port Limit: Conn Exceeded; 'dst_port_conn_rate_exceed': Port Rate: Conn Exceeded; 'dst_pkt_sent': Inbound: Packets Forwarded; 'dst_udp_pkt_sent': UDP Total Packets Forwarded; 'dst_tcp_pkt_sent': TCP Total Packets Forwarded; 'dst_icmp_pkt_sent': ICMP Total Packets Forwarded; 'dst_other_pkt_sent': OTHER Total Packets Forwarded; 'dst_tcp_conn_limit_exceed': TCP Dst L4-Type Limit: Conn Exceeded; 'dst_tcp_pkt_rcvd': TCP Total Packets Received; 'dst_udp_pkt_rcvd': UDP Total Packets Received; 'dst_icmp_pkt_rcvd': ICMP Total Packets Received; 'dst_other_pkt_rcvd': OTHER Total Packets Received; 'dst_udp_filter_match': UDP Filter Match; 'dst_udp_filter_not_match': UDP Filter Not Matched on Pkt; 'dst_udp_filter_action_blacklist': UDP Filter Action Blacklist; 'dst_udp_filter_action_drop': UDP Filter Action Drop; 'dst_tcp_syn': TCP Total SYN Received; 'dst_tcp_syn_drop': TCP SYN Packets Dropped; 'dst_tcp_src_rate_drop': TCP Src Rate: Total Exceeded; 'dst_udp_src_rate_drop': UDP Src Rate: Total Exceeded; 'dst_icmp_src_rate_drop': ICMP Src Rate: Total Exceeded; 'dst_other_frag_src_rate_drop': OTHER Src Rate: Frag Exceeded; 'dst_other_src_rate_drop': OTHER Src Rate: Total Exceeded; 'dst_tcp_drop': TCP Total Packets Dropped; 'dst_udp_drop': UDP Total Packets Dropped; 'dst_icmp_drop': ICMP Total Packets Dropped; 'dst_frag_drop': Fragmented Packets Dropped; 'dst_other_drop': OTHER Total Packets Dropped; 'dst_tcp_auth': TCP Auth: SYN Cookie Sent; 'dst_udp_filter_action_default_pass': UDP Filter Action Default Pass; 'dst_tcp_filter_match': TCP Filter Match; 'dst_tcp_filter_not_match': TCP Filter Not Matched on Pkt; 'dst_tcp_filter_action_blacklist': TCP Filter Action Blacklist;

'dst_tcp_filter_action_drop': TCP Filter Action Drop; 'dst_tcp_filter_action_default_pass': TCP Filter Action Default Pass; 'dst_udp_filter_action_whitelist': UDP Filter Action WL; 'dst_over_limit_on': DST overlimit Trigger ON; 'dst_over_limit_off': DST overlimit Trigger OFF; 'dst_port_over_limit_on': DST port overlimit Trigger ON; 'dst_port_over_limit_off': DST port overlimit Trigger OFF; 'dst_over_limit_action': DST overlimit action; 'dst_port_over_limit_action': DST port overlimit action; 'scanning_detected_drop': Scanning Detected drop (deprecated); 'scanning_detected_blacklist': Scanning Detected blacklist (deprecated); 'dst_udp_kibit_rate_drop': UDP Dst L4-Type Rate: KiBit Exceeded; 'dst_tcp_kibit_rate_drop': TCP Dst L4-Type Rate: KiBit Exceeded; 'dst_icmp_kibit_rate_drop': ICMP Dst Rate: KiBit Exceeded; 'dst_other_kibit_rate_drop': OTHER Dst L4-Type Rate: KiBit Exceeded; 'dst_port_undef_drop': Dst Port Undefined Dropped; 'dst_port_bl': Dst Port Blacklist Packets Dropped; 'dst_src_port_bl': Dst Src-Port Blacklist Packets Dropped; 'dst_port_kbit_rate_exceed': Port Rate: KiBit Exceeded; 'dst_tcp_src_drop': TCP Src Packets Dropped; 'dst_udp_src_drop': UDP Src Packets Dropped; 'dst_icmp_src_drop': ICMP Src Packets Dropped; 'dst_other_src_drop': OTHER Src Packets Dropped; 'tcp_syn_rcvd': TCP Inbound SYN Received; 'tcp_syn_ack_rcvd': TCP SYN ACK Received; 'tcp_ack_rcvd': TCP ACK Received; 'tcp_fin_rcvd': TCP FIN Received; 'tcp_rst_rcvd': TCP RST Received; 'ingress_bytes': Inbound: Bytes Received; 'egress_bytes': Outbound: Bytes Received; 'ingress_packets': Inbound: Packets Received; 'egress_packets': Outbound: Packets Received; 'tcp_fwd_recv': TCP Inbound Packets Received; 'udp_fwd_recv': UDP Inbound Packets Received; 'icmp_fwd_recv': ICMP Inbound Packets Received; 'tcp_syn_cookie_fail': TCP Auth: SYN Cookie Failed; 'dst_tcp_session_created': TCP Sessions Created; 'dst_udp_session_created': UDP Sessions Created; 'dst_tcp_filter_action_whitelist': TCP Filter Action WL; 'dst_other_filter_match': OTHER Filter Match; 'dst_other_filter_not_match': OTHER Filter Not Matched on Pkt; 'dst_other_filter_action_blacklist': OTHER Filter Action Blacklist; 'dst_other_filter_action_drop': OTHER Filter Action Drop; 'dst_other_filter_action_whitelist': OTHER Filter Action WL; 'dst_other_filter_action_default_pass': OTHER Filter Action Default Pass; 'dst_blackhole_inject': Dst Blackhole Inject; 'dst_blackhole_withdraw': Dst Blackhole Withdraw; 'dst_tcp_out_of_seq_excd': TCP Out-Of-Seq Exceeded; 'dst_tcp_retransmit_excd': TCP Retransmit Exceeded; 'dst_tcp_zero_window_excd': TCP Zero-Window Exceeded; 'dst_tcp_conn_prate_excd': TCP Rate: Conn Pkt Exceeded; 'dst_tcp_action_on_ack_init': TCP Auth: ACK Retry Init; 'dst_tcp_action_on_ack_gap_drop': TCP Auth: ACK Retry Retry-Gap Dropped; 'dst_tcp_action_on_ack_fail': TCP Auth: ACK Retry Dropped; 'dst_tcp_action_on_ack_pass': TCP Auth: ACK Retry Passed; 'dst_tcp_action_on_syn_init': TCP Auth: SYN Retry Init; 'dst_tcp_action_on_syn_gap_drop': TCP Auth: SYN Retry-Gap Dropped; 'dst_tcp_action_on_syn_fail': TCP Auth: SYN Retry Dropped; 'dst_tcp_action_on_syn_pass': TCP Auth: SYN Retry Passed; 'udp_payload_too_small': UDP Payload Too Small; 'udp_payload_too_big': UDP Payload Too Large; 'dst_udp_conn_prate_excd': UDP Rate: Conn Pkt Exceeded; 'dst_udp_ntp_monlist_req': UDP NTP Monlist Request; 'dst_udp_ntp_monlist_resp': UDP NTP Monlist Response; 'dst_udp_wellknown_sport_drop': UDP SrcPort Wellknown; 'dst_udp_retry_init': UDP Auth: Retry Init; 'dst_udp_retry_pass': UDP Auth: Retry Passed; 'dst_tcp_bytes_drop': TCP Total Bytes Dropped; 'dst_udp_bytes_drop': UDP Total Bytes Dropped; 'dst_icmp_bytes_drop': ICMP Total Bytes Dropped; 'dst_other_bytes_drop': OTHER Total Bytes Dropped; 'dst_out_no_route': Dst IPv4/v6 Out No Route; 'outbound_bytes_sent': Outbound: Bytes Forwarded; 'outbound_pkt_drop': Outbound: Packets Dropped; 'outbound_bytes_drop': Outbound: Bytes Dropped; 'outbound_pkt_sent': Outbound: Packets Forwarded; 'inbound_bytes_sent': Inbound: Bytes Forwarded; 'inbound_bytes_drop': Inbound: Bytes Dropped; 'dst_src_port_pkt_rate_exceed': SrcPort Rate: Packet Exceeded; 'dst_src_port_kbit_rate_exceed': SrcPort Rate: KiBit Exceeded; 'dst_src_port_conn_limit_exceed': SrcPort Limit: Conn Exceeded; 'dst_src_port_conn_rate_exceed': SrcPort Rate: Conn Ex-

ceeded; 'dst_ip_proto_pkt_rate_exceed': IP-Proto Rate: Packet Exceeded; 'dst_ip_proto_kbit_rate_exceed': IP-Proto Rate: KiBit Exceeded; 'dst_tcp_port_any_exceed': TCP Port Rate: Total Exceed; 'dst_udp_port_any_exceed': UDP Port Rate: Total Exceed; 'dst_tcp_auth_pass': TCP Auth: SYN Auth Passed; 'dst_tcp_rst_cookie_fail': TCP Auth: RST Cookie Failed; 'dst_tcp_unauth_drop': TCP Auth: Unauth Dropped; 'src_tcp_syn_auth_fail': Src TCP Auth: SYN Auth Failed; 'src_tcp_syn_cookie_sent': Src TCP Auth: SYN Cookie Sent; 'src_tcp_syn_cookie_fail': Src TCP Auth: SYN Cookie Failed; 'src_tcp_rst_cookie_fail': Src TCP Auth: RST Cookie Failed; 'src_tcp_unauth_drop': Src TCP Auth: Unauth Dropped; 'src_tcp_action_on_syn_init': Src TCP Auth: SYN Retry Init;

Type: string

Supported Values: all, dst_tcp_any_exceed, dst_tcp_pkt_rate_exceed, dst_tcp_conn_rate_exceed, dst_udp_any_exceed, dst_udp_pkt_rate_exceed, dst_udp_conn_limit_exceed, dst_udp_conn_rate_exceed, dst_icmp_pkt_rate_exceed, dst_other_pkt_rate_exceed, dst_other_frag_pkt_rate_exceed, dst_port_pkt_rate_exceed, dst_port_conn_limit_exceed, dst_port_conn_rate_exceed, dst_pkt_sent, dst_udp_pkt_sent, dst_tcp_pkt_sent, dst_icmp_pkt_sent, dst_other_pkt_sent, dst_tcp_conn_limit_exceed, dst_tcp_pkt_rcvd, dst_udp_pkt_rcvd, dst_icmp_pkt_rcvd, dst_other_pkt_rcvd, dst_udp_filter_match, dst_udp_filter_not_match, dst_udp_filter_action_blacklist, dst_udp_filter_action_drop, dst_tcp_syn, dst_tcp_syn_drop, dst_tcp_src_rate_drop, dst_udp_src_rate_drop, dst_icmp_src_rate_drop, dst_other_frag_src_rate_drop, dst_other_src_rate_drop, dst_tcp_drop, dst_udp_drop, dst_icmp_drop, dst_frag_drop, dst_other_drop, dst_tcp_auth, dst_udp_filter_action_default_pass, dst_tcp_filter_match, dst_tcp_filter_not_match, dst_tcp_filter_action_blacklist, dst_tcp_filter_action_drop, dst_tcp_filter_action_default_pass, dst_udp_filter_action_whitelist, dst_over_limit_on, dst_over_limit_off, dst_port_over_limit_on, dst_port_over_limit_off, dst_over_limit_action, dst_port_over_limit_action, scanning_detected_drop, scanning_detected_blacklist, dst_udp_kibit_rate_drop, dst_tcp_kibit_rate_drop, dst_icmp_kibit_rate_drop, dst_other_kibit_rate_drop, dst_port_undef_drop, dst_port_bl, dst_src_port_bl, dst_port_kbit_rate_exceed, dst_tcp_src_drop, dst_udp_src_drop, dst_icmp_src_drop, dst_other_src_drop, tcp_syn_rcvd, tcp_syn_ack_rcvd, tcp_ack_rcvd, tcp_fin_rcvd, tcp_rst_rcvd, ingress_bytes, egress_bytes, ingress_packets, egress_packets, tcp_fwd_recv, udp_fwd_recv, icmp_fwd_recv, tcp_syn_cookie_fail, dst_tcp_session_created, dst_udp_session_created, dst_tcp_filter_action_whitelist, dst_other_filter_match, dst_other_filter_not_match, dst_other_filter_action_blacklist, dst_other_filter_action_drop, dst_other_filter_action_whitelist, dst_other_filter_action_default_pass, dst_blackhole_inject, dst_blackhole_withdraw, dst_tcp_out_of_seq_excd, dst_tcp_retransmit_excd, dst_tcp_zero_window_excd, dst_tcp_conn_prate_excd, dst_tcp_action_on_ack_init, dst_tcp_action_on_ack_gap_drop, dst_tcp_action_on_ack_fail, dst_tcp_action_on_ack_pass, dst_tcp_action_on_syn_init, dst_tcp_action_on_syn_gap_drop, dst_tcp_action_on_syn_fail, dst_tcp_action_on_syn_pass, udp_payload_too_small, udp_payload_too_big, dst_udp_conn_prate_excd, dst_udp_ntp_monlist_req, dst_udp_ntp_monlist_resp, dst_udp_wellknown_sport_drop, dst_udp_retry_init, dst_udp_retry_pass, dst_tcp_bytes_drop, dst_udp_bytes_drop, dst_icmp_bytes_drop, dst_other_bytes_drop, dst_out_no_route, outbound_bytes_sent, outbound_pkt_drop, outbound_bytes_drop, outbound_pkt_sent, inbound_bytes_sent, inbound_bytes_drop, dst_src_port_pkt_rate_exceed, dst_src_port_kbit_rate_exceed, dst_src_port_conn_limit_exceed, dst_src_port_conn_rate_exceed, dst_ip_proto_pkt_rate_exceed, dst_ip_proto_kbit_rate_exceed, dst_tcp_port_any_exceed, dst_udp_port_any_exceed, dst_tcp_auth_pass, dst_tcp_rst_cookie_fail, dst_tcp_unauth_drop, src_tcp_syn_auth_fail, src_tcp_syn_cookie_sent, src_tcp_syn_cookie_fail, src_tcp_rst_cookie_fail, src_tcp_unauth_drop, src_tcp_action_on_syn_init

counters2

Description 'src_tcp_action_on_syn_gap_drop': Src TCP Auth: SYN Retry-Gap Dropped; 'src_tcp_action_on_syn_fail': Src TCP Auth: SYN Retry Dropped; 'src_tcp_action_on_ack_init': Src TCP Auth: ACK Retry Init; 'src_tcp_action_on_ack_gap_drop': Src TCP Auth: ACK Retry Retry-Gap Dropped; 'src_tcp_action_on_ack_fail': Src TCP Auth: ACK Retry Dropped; 'src_tcp_out_of_seq_excd': Src TCP Out-Of-Seq Exceeded; 'src_tcp_retransmit_excd': Src TCP Retransmit Exceeded; 'src_tcp_zero_window_excd': Src TCP Zero-Window Exceeded; 'src_tcp_conn_prate_excd': Src TCP Rate: Conn Pkt Exceeded; 'src_udp_min_payload': Src UDP Payload Too Small; 'src_udp_max_payload': Src UDP Payload Too Large; 'src_udp_conn_prate_excd': Src UDP Rate: Conn Pkt Exceeded; 'src_udp_ntp_monlist_req': Src UDP NTP Monlist Request; 'src_udp_ntp_monlist_resp': Src UDP NTP Monlist Response; 'src_udp_wellknown_sport_drop': Src UDP SrcPort Wellknown; 'src_udp_retry_init': Src UDP Auth: Retry Init; 'dst_udp_retry_gap_drop': UDP Auth: Retry-Gap Dropped; 'dst_udp_retry_fail': UDP Auth: Retry Timeout; 'dst_tcp_session_aged': TCP Sessions Aged; 'dst_udp_session_aged': UDP Sessions Aged; 'dst_tcp_conn_close': TCP Connections Closed; 'dst_tcp_conn_close_half_open': TCP Half Open Connections Closed; 'dst_l4_tcp_auth': TCP Dst L4-Type Auth: SYN Cookie Sent; 'tcp_l4_syn_cookie_fail': TCP Dst L4-Type Auth: SYN Cookie Failed; 'tcp_l4_rst_cookie_fail': TCP Dst L4-Type Auth: RST Cookie Failed; 'tcp_l4_unauth_drop': TCP Dst L4-Type Auth: Unauth Dropped; 'dst_drop_frag_pkt': Dst Fragmented Packets Dropped; 'src_tcp_filter_action_blacklist': Src TCP Filter Action Blacklist; 'src_tcp_filter_action_whitelist': Src TCP Filter Action WL; 'src_tcp_filter_action_drop': Src TCP Filter Action Drop; 'src_tcp_filter_action_default_pass': Src TCP Filter Action Default Pass; 'src_udp_filter_action_blacklist': Src UDP Filter Action Blacklist; 'src_udp_filter_action_whitelist': Src UDP Filter Action WL; 'src_udp_filter_action_drop': Src UDP Filter Action Drop; 'src_udp_filter_action_default_pass': Src UDP Filter Action Default Pass; 'src_other_filter_action_blacklist': Src OTHER Filter Action Blacklist; 'src_other_filter_action_whitelist': Src OTHER Filter Action WL; 'src_other_filter_action_drop': Src OTHER Filter Action Drop; 'src_other_filter_action_default_pass': Src OTHER Filter Action Default Pass; 'tcp_invalid_syn': TCP Invalid SYN Received; 'dst_tcp_conn_close_w_rst': TCP RST Connections Closed; 'dst_tcp_conn_close_w_fin': TCP FIN Connections Closed; 'dst_tcp_conn_close_w_idle': TCP Idle Connections Closed; 'dst_tcp_conn_create_from_syn': TCP Connections Created From SYN; 'dst_tcp_conn_create_from_ack': TCP Connections Created From ACK; 'src_frag_drop': Src Fragmented Packets Dropped; 'dst_l4_tcp_blacklist_drop': Dst L4-type TCP Blacklist Dropped; 'dst_l4_udp_blacklist_drop': Dst L4-type UDP Blacklist Dropped; 'dst_l4_icmp_blacklist_drop': Dst L4-type ICMP Blacklist Dropped; 'dst_l4_other_blacklist_drop': Dst L4-type OTHER Blacklist Dropped; 'src_l4_tcp_blacklist_drop': Src L4-type TCP Blacklist Dropped; 'src_l4_udp_blacklist_drop': Src L4-type UDP Blacklist Dropped; 'src_l4_icmp_blacklist_drop': Src L4-type ICMP Blacklist Dropped; 'src_l4_other_blacklist_drop': Src L4-type OTHER Blacklist Dropped; 'drop_frag_timeout_drop': Fragment Reassemble Timeout Drop; 'dst_port_kbit_rate_exceed_pkt': Port Rate: KiBit Pkt Exceeded; 'dst_tcp_bytes_rcv': TCP Total Bytes Received; 'dst_udp_bytes_rcv': UDP Total Bytes Received; 'dst_icmp_bytes_rcv': ICMP Total Bytes Received; 'dst_other_bytes_rcv': OTHER Total Bytes Received; 'dst_tcp_bytes_sent': TCP Total Bytes Forwarded; 'dst_udp_bytes_sent': UDP Total Bytes Forwarded; 'dst_icmp_bytes_sent': ICMP Total Bytes Forwarded; 'dst_other_bytes_sent': OTHER Total Bytes Forwarded; 'dst_udp_auth_drop': UDP Auth: Dropped; 'dst_tcp_auth_drop': TCP Auth: Dropped; 'dst_tcp_auth_resp': TCP Auth: Responded; 'inbound_pkt_drop': Inbound: Packets Dropped; 'dst_entry_pkt_rate_exceed': Entry Rate: Packet Exceeded; 'dst_entry_kbit_rate_exceed': Entry Rate: KiBit Exceeded; 'dst_entry_conn_limit_exceed': Entry Limit: Conn Exceeded; 'dst_entry_conn_rate_exceed':

Entry Rate: Conn Exceeded; 'dst_entry_frag_pkt_rate_exceed': Entry Rate: Frag Packet Exceeded; 'dst_icmp_any_exceed': ICMP Rate: Total Exceed; 'dst_other_any_exceed': OTHER Rate: Total Exceed; 'src_dst_pair_entry_total': Src-Dst Pair Entry Total Count; 'src_dst_pair_entry_udp': Src-Dst Pair Entry UDP Count; 'src_dst_pair_entry_tcp': Src-Dst Pair Entry TCP Count; 'src_dst_pair_entry_icmp': Src-Dst Pair Entry ICMP Count; 'src_dst_pair_entry_other': Src-Dst Pair Entry OTHER Count; 'dst_clist_overflow_policy_at_learning': Dst Src-Based Overflow Policy Hit; 'tcp_rexmit_syn_limit_drop': TCP SYN Retransmit Exceeded Drop; 'tcp_rexmit_syn_limit_bl': TCP SYN Retransmit Exceeded Blacklist; 'dst_tcp_wellknown_sport_drop': TCP SrcPort Wellknown; 'src_tcp_wellknown_sport_drop': Src TCP SrcPort Wellknown; 'dst_frag_rcvd': Fragmented Packets Received; 'no_policy_class_list_match': No Policy Class-list Match; 'src_udp_retry_gap_drop': Src UDP Auth: Retry-Gap Dropped; 'dst_entry_kbit_rate_exceed_count': Entry Rate: KiBit Exceeded Count; 'dst_port_undef_hit': Dst Port Undefined Hit; 'dst_tcp_action_on_ack_timeout': TCP Auth: ACK Retry Timeout; 'dst_tcp_action_on_ack_reset': TCP Auth: ACK Retry Timeout Reset; 'dst_tcp_action_on_ack_blacklist': TCP Auth: ACK Retry Timeout Blacklisted; 'src_tcp_action_on_ack_timeout': Src TCP Auth: ACK Retry Timeout; 'src_tcp_action_on_ack_reset': Src TCP Auth: ACK Retry Timeout Reset; 'src_tcp_action_on_ack_blacklist': Src TCP Auth: ACK Retry Timeout Blacklisted; 'dst_tcp_action_on_syn_timeout': TCP Auth: SYN Retry Timeout; 'dst_tcp_action_on_syn_reset': TCP Auth: SYN Retry Timeout Reset; 'dst_tcp_action_on_syn_blacklist': TCP Auth: SYN Retry Timeout Blacklisted; 'src_tcp_action_on_syn_timeout': Src TCP Auth: SYN Retry Timeout; 'src_tcp_action_on_syn_reset': Src TCP Auth: SYN Retry Timeout Reset; 'src_tcp_action_on_syn_blacklist': Src TCP Auth: SYN Retry Timeout Blacklisted; 'dst_udp_frag_pkt_rate_exceed': UDP Dst L4-Type Rate: Frag Exceeded; 'dst_udp_frag_src_rate_drop': UDP Src Rate: Frag Exceeded; 'dst_tcp_frag_pkt_rate_exceed': TCP Dst L4-Type Rate: Frag Exceeded; 'dst_tcp_frag_src_rate_drop': TCP Src Rate: Frag Exceeded; 'dst_icmp_frag_pkt_rate_exceed': ICMP Dst L4-Type Rate: Frag Exceeded; 'dst_icmp_frag_src_rate_drop': ICMP Src Rate: Frag Exceeded; 'sflow_internal_samples_packed': Sflow Internal Samples Packed; 'sflow_external_samples_packed': Sflow External Samples Packed; 'sflow_internal_packets_sent': Sflow Internal Packets Sent; 'sflow_external_packets_sent': Sflow External Packets Sent; 'dns_outbound_total_query': DNS Outbound Total Query; 'dns_outbound_query_malformed': DNS Outbound Query Malformed; 'dns_outbound_query_resp_chk_failed': DNS Outbound Query Resp Check Failed; 'dns_outbound_query_resp_chk_blacklisted': DNS Outbound Query Resp Check Blacklisted; 'dns_outbound_query_resp_chk_refused_sent': DNS Outbound Query Resp Check REFUSED Sent; 'dns_outbound_query_resp_chk_reset_sent': DNS Outbound Query Resp Check RESET Sent; 'dns_outbound_query_resp_chk_no_resp_sent': DNS Outbound Query Resp Check No Response Sent; 'dns_outbound_query_resp_size_exceed': DNS Outbound Query Response Size Exceed; 'dns_outbound_query_sess_timed_out': DNS Outbound Query Session Timed Out; 'dst_exceed_action_tunnel': Entry Exceed Action: Tunnel; 'src_udp_auth_timeout': Src UDP Auth: Retry Timeout; 'src_udp_retry_pass': Src UDP Retry Passed;

Type: string

Supported Values: src_tcp_action_on_syn_gap_drop, src_tcp_action_on_syn_fail, src_tcp_action_on_ack_init, src_tcp_action_on_ack_gap_drop, src_tcp_action_on_ack_fail, src_tcp_out_of_seq_excd, src_tcp_retransmit_excd, src_tcp_zero_window_excd, src_tcp_conn_prate_excd, src_udp_min_payload, src_udp_max_payload, src_udp_conn_prate_excd, src_udp_ntp_monlist_req,

src_udp_ntp_monlist_resp, src_udp_wellknown_sport_drop, src_udp_retry_init, dst_udp_retry_gap_drop, dst_udp_retry_fail, dst_tcp_session_aged, dst_udp_session_aged, dst_tcp_conn_close, dst_tcp_conn_close_half_open, dst_l4_tcp_auth, tcp_l4_syn_cookie_fail, tcp_l4_rst_cookie_fail, tcp_l4_unauth_drop, dst_drop_frag_pkt, src_tcp_filter_action_blacklist, src_tcp_filter_action_whitelist, src_tcp_filter_action_drop, src_tcp_filter_action_default_pass, src_udp_filter_action_blacklist, src_udp_filter_action_whitelist, src_udp_filter_action_drop, src_udp_filter_action_default_pass, src_other_filter_action_blacklist, src_other_filter_action_whitelist, src_other_filter_action_drop, src_other_filter_action_default_pass, tcp_invalid_syn, dst_tcp_conn_close_w_rst, dst_tcp_conn_close_w_fin, dst_tcp_conn_close_w_idle, dst_tcp_conn_create_from_syn, dst_tcp_conn_create_from_ack, src_frag_drop, dst_l4_tcp_blacklist_drop, dst_l4_udp_blacklist_drop, dst_l4_icmp_blacklist_drop, dst_l4_other_blacklist_drop, src_l4_tcp_blacklist_drop, src_l4_udp_blacklist_drop, src_l4_icmp_blacklist_drop, src_l4_other_blacklist_drop, drop_frag_timeout_drop, dst_port_kbit_rate_exceed_pkt, dst_tcp_bytes_rcv, dst_udp_bytes_rcv, dst_icmp_bytes_rcv, dst_other_bytes_rcv, dst_tcp_bytes_sent, dst_udp_bytes_sent, dst_icmp_bytes_sent, dst_other_bytes_sent, dst_udp_auth_drop, dst_tcp_auth_drop, dst_tcp_auth_resp, inbound_pkt_drop, dst_entry_pkt_rate_exceed, dst_entry_kbit_rate_exceed, dst_entry_conn_limit_exceed, dst_entry_conn_rate_exceed, dst_entry_frag_pkt_rate_exceed, dst_icmp_any_exceed, dst_other_any_exceed, src_dst_pair_entry_total, src_dst_pair_entry_udp, src_dst_pair_entry_tcp, src_dst_pair_entry_icmp, src_dst_pair_entry_other, dst_clist_overflow_policy_at_learning, tcp_rexmit_syn_limit_drop, tcp_rexmit_syn_limit_bl, dst_tcp_wellknown_sport_drop, src_tcp_wellknown_sport_drop, dst_frag_rcvd, no_policy_class_list_match, src_udp_retry_gap_drop, dst_entry_kbit_rate_exceed_count, dst_port_undef_hit, dst_tcp_action_on_ack_timeout, dst_tcp_action_on_ack_reset, dst_tcp_action_on_ack_blacklist, src_tcp_action_on_ack_timeout, src_tcp_action_on_ack_reset, src_tcp_action_on_ack_blacklist, dst_tcp_action_on_syn_timeout, dst_tcp_action_on_syn_reset, dst_tcp_action_on_syn_blacklist, src_tcp_action_on_syn_timeout, src_tcp_action_on_syn_reset, src_tcp_action_on_syn_blacklist, dst_udp_frag_pkt_rate_exceed, dst_udp_frag_src_rate_drop, dst_tcp_frag_pkt_rate_exceed, dst_tcp_frag_src_rate_drop, dst_icmp_frag_pkt_rate_exceed, dst_icmp_frag_src_rate_drop, sflow_internal_samples_packed, sflow_external_samples_packed, sflow_internal_packets_sent, sflow_external_packets_sent, dns_outbound_total_query, dns_outbound_query_malformed, dns_outbound_query_resp_chk_failed, dns_outbound_query_resp_chk_blacklisted, dns_outbound_query_resp_chk_refused_sent, dns_outbound_query_resp_chk_reset_sent, dns_outbound_query_resp_chk_no_resp_sent, dns_outbound_query_resp_size_exceed, dns_outbound_query_sess_timed_out, dst_exceed_action_tunnel, src_udp_auth_timeout, src_udp_retry_pass

counters3

Description 'dst_hw_drop_rule_insert': Dst Hardware Drop Rules Inserted; 'dst_hw_drop_rule_remove': Dst Hardware Drop Rules Removed; 'src_hw_drop_rule_insert': Src Hardware Drop Rules Inserted; 'src_hw_drop_rule_remove': Src Hardware Drop Rules Removed; 'prog_first_req_time_exceed': Req-Resp: First Request Time Exceed; 'prog_req_resp_time_exceed': Req-Resp: Request to Response Time Exceed; 'prog_request_len_exceed': Req-Resp: Request Length Exceed; 'prog_response_len_exceed': Req-Resp: Response Length Exceed; 'prog_resp_req_ratio_exceed': Req-Resp: Response to Request Ratio Exceed; 'prog_resp_req_time_exceed': Req-Resp: Response to Request Time Exceed; 'entry_sync_message_received': Entry Sync Message Received; 'entry_sync_message_sent': Entry Sync Message Sent; 'prog_conn_sent_exceed': Connection: Sent Exceed; 'prog_conn_rcvd_exceed': Connection: Received Exceed; 'prog_conn_time_exceed': Connection: Time Exceed; 'prog_conn_rcvd_sent_ratio_exceed':

Connection: Reveived to Sent Ratio Exceed; 'prog_win_sent_exceed': Time Window: Sent Exceed; 'prog_win_rcvd_exceed': Time Window: Received Exceed; 'prog_win_rcvd_sent_ratio_exceed': Time Window: Received to Sent Exceed; 'prog_exceed_drop': Req-Resp: Violation Exceed Dropped; 'prog_exceed_bl': Req-Resp: Violation Exceed Blacklisted; 'prog_conn_exceed_drop': Connection: Violation Exceed Dropped; 'prog_conn_exceed_bl': Connection: Violation Exceed Blacklisted; 'prog_win_exceed_drop': Time Window: Violation Exceed Dropped; 'prog_win_exceed_bl': Time Window: Violation Exceed Blacklisted; 'dst_exceed_action_drop': Entry Exceed Action: Dropped; 'prog_conn_samples': Sample Collected: Connection; 'prog_req_samples': Sample Collected: Req-Resp; 'prog_win_samples': Sample Collected: Time Window;

Type: string

Supported Values: dst_hw_drop_rule_insert, dst_hw_drop_rule_remove, src_hw_drop_rule_insert, src_hw_drop_rule_remove, prog_first_req_time_exceed, prog_req_resp_time_exceed, prog_request_len_exceed, prog_response_len_exceed, prog_resp_pkt_rate_exceed, prog_resp_req_time_exceed, entry_sync_message_received, entry_sync_message_sent, prog_conn_sent_exceed, prog_conn_rcvd_exceed, prog_conn_time_exceed, prog_conn_rcvd_sent_ratio_exceed, prog_win_sent_exceed, prog_win_rcvd_exceed, prog_win_rcvd_sent_ratio_exceed, prog_exceed_drop, prog_exceed_bl, prog_conn_exceed_drop, prog_conn_exceed_bl, prog_win_exceed_drop, prog_win_exceed_bl, dst_exceed_action_drop, src_hw_drop, dst_tcp_auth_rst, dst_src_learn_overflow, tcp_fwd_sent, udp_fwd_sent, prog_query_exceed, prog_think_exceed, prog_conn_samples, prog_req_samples, prog_win_samples, prog_conn_samples_processed, prog_req_samples_processed, prog_win_samples_processed, tcp_invalid_synack

enable-top-k

Specification	Value
Type	*list*
Block object keys	

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-type

Description 'destination': Topk destination IP;

Type: string

Supported Values: destination

exceed-log-dep-cfg

Specification	Value
Type	*object*

exceed-log-enable

Description (Deprecated)Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-with-sflow-dep

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.70 ddos dst entry capture-config

Specify packet capture-config

capture-config Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*capture-config-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/capture-config
Element Name	capture-config
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/capture-config/{name}
Element Attributes	capture-config_attributes
Partition Visibility	shared
Schema	`capture-config schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/capture-config

capture-config attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/capture-config

capture-config attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/capture-config/{name}

capture-config attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/capture-config

capture-config-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/capture-config/{name}

capture-config attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/capture-config/{name}

capture-config attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/capture-config

capture-config-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/capture-config/{name}

capture-config attributes

capture-config-list

capture-config-list is **JSON List** of *capture-config attributes*

capture-config-list : [

{ *capture-config attributes* },

{ *capture-config attributes* },

...

]

capture-config attributes

mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.71 ddos dst entry dynamic-entry-overflow-policy

Configure src dst dynamic entry count overflow policy

dynamic-entry-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dummy-name*
Collection Name	*dynamic-entry-overflow-policy-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy
Element Name	dynamic-entry-overflow-policy
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}
Element Attributes	dynamic-entry-overflow-policy_attributes
Partition Visibility	shared
Schema	`dynamic-entry-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

dynamic-entry-overflow-policy-list

dynamic-entry-overflow-policy-list is **JSON List** of *dynamic-entry-overflow-policy attributes*

dynamic-entry-overflow-policy-list : [

{ *dynamic-entry-overflow-policy attributes* },

{ *dynamic-entry-overflow-policy attributes* },

...

]

dynamic-entry-overflow-policy attributes

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dummy-name

Description 'configuration': Configure src dst dynamic entry count overflow policy;

Type: string

Supported Values: configuration

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.72 ddos dst entry dynamic-entry-overflow-policy app-type-src-dst

DDOS APP type

app-type-src-dst Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*app-type-src-dst-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst
Element Name	app-type-src-dst
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst/{protocol}
Element Attributes	app-type-src-dst_attributes
Partition Visibility	shared
Schema	`app-type-src-dst schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst

app-type-src-dst attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst

app-type-src-dst attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst/{protocol}

app-type-src-dst attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst

app-type-src-dst-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst/{protocol}

app-type-src-dst attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst/{protocol}

app-type-src-dst attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst

app-type-src-dst-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/app-type-src-dst/{protocol}

app-type-src-dst attributes

app-type-src-dst-list

app-type-src-dst-list is **JSON List** of *app-type-src-dst attributes*

app-type-src-dst-list : [

{ *app-type-src-dst attributes* },

{ *app-type-src-dst attributes* },

...

]

app-type-src-dst attributes

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.73 ddos dst entry dynamic-entry-overflow-policy l4-type-src-dst

DDOS L4 type

l4-type-src-dst Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-src-dst-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst
Element Name	l4-type-src-dst
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst/{protocol}
Element Attributes	l4-type-src-dst_attributes
Partition Visibility	shared
Schema	`l4-type-src-dst schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst

l4-type-src-dst attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst

l4-type-src-dst attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst

l4-type-src-dst-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst

l4-type-src-dst-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/dynamic-entry-overflow-policy/{dummy-name}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

l4-type-src-dst-list

l4-type-src-dst-list is **JSON List** of *l4-type-src-dst attributes*

```
l4-type-src-dst-list : [
        { l4-type-src-dst attributes },
        { l4-type-src-dst attributes },
        ...
    ]
```

l4-type-src-dst attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.74 ddos dst entry hw-blacklist-blocking

Hardware blacklist blocking over threshold

hw-blacklist-blocking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	hw-blacklist-blocking
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/hw-blacklist-blocking
Element Attributes	hw-blacklist-blocking_attributes
Partition Visibility	shared
Schema	`hw-blacklist-blocking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

```
POST /axapi/v3/ddos/dst/entry/a/hw-blacklist-blocking
Payload:
{
    "hw-blacklist-blocking": {
        "dst-enable": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

hw-blacklist-blocking attributes

dst-enable

Description Enable Dst side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-enable

Description Enable Src side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.75 ddos dst entry ip-proto

DDOS IP protocol configuration

ip-proto Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num*
Collection Name	*ip-proto-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto
Element Name	ip-proto
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}
Element Attributes	ip-proto_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}/stats
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}/oper
Schema	`ip-proto schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto

ip-proto attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto

ip-proto attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}

ip-proto attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto

ip-proto-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}

ip-proto attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}

ip-proto attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto

ip-proto-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}

ip-proto attributes

ip-proto-list

ip-proto-list is **JSON List** of *ip-proto attributes*

ip-proto-list : [

{ *ip-proto attributes* },

{ *ip-proto attributes* },

...

]

ip-proto attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

esp-inspect

Description: esp-inspect is a **JSON Block**. Please see below for *esp-inspect*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *glid-exceed-action*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

port-num

Description Protocol Number

Type: number

Range: 0-255

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

esp-inspect

Specification	Value
Type	*object*

auth-algorithm

Description 'AUTH_NULL': No Integrity Check Value; 'HMAC-SHA-1-96': 96 bit Auth Algo; 'HMAC-SHA-256-96': 96 bit Auth Algo; 'HMAC-SHA-256-128': 128 bit Auth Algo; 'HMAC-SHA-384-192': 192 bit Auth Algo; 'HMAC-SHA-512-256': 256 bit Auth Algo; 'HMAC-MD5-96': 96 bit Auth Algo; 'MAC-RIPEMD-160-96': 96 bit Auth Algo;

Type: string

Supported Values: AUTH_NULL, HMAC-SHA-1-96, HMAC-SHA-256-96, HMAC-SHA-256-128, HMAC-SHA-384-192, HMAC-SHA-512-256, HMAC-MD5-96, MAC-RIPEMD-160-96

encrypt-algorithm

Description 'NULL': Null Encryption Algorithm;

Type: string

Supported Values: NULL

mode

Description 'transport': Transport mode;

Type: string

Supported Values: transport

template

Specification	Value
Type	*object*

other

Description DDOS other template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *glid-exceed-action_stateless-encap-action-cfg*

Type: Object

glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

2.33.76 ddos dst entry ip-proto oper

Operational Status for the object ip-proto

ip-proto Specification

Parameter	Value
Type	*Collection*
Collection Name	*ip-proto-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}
Element Name	ip-proto
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}/oper
Element Attributes	ip-proto_attributes
Partition Visibility	None
Schema	`ip-proto schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}

ip-proto attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}

ip-proto attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}/oper

ip-proto attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}

ip-proto-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}/oper

ip-proto attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}/oper

ip-proto attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}

ip-proto-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/ip-proto/{port-num}/oper

ip-proto attributes

ip-proto-list

ip-proto-list is **JSON List** of *ip-proto attributes*

ip-proto-list : [

{ *ip-proto attributes* },

{ *ip-proto attributes* },

…

]

ip-proto attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port-num

Description Protocol Number

Type: number

Range: 0-255

oper

Specification	Value
Type	*object*

all-ip-protos

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

all-src-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: string

port-protocol

Description

Type: string

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sflow-source-id

Description

Type: boolean

Supported Values: true, false, 1, 0

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

2.33.77 ddos dst entry l4-type

DDOS L4 type

l4-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type
Element Name	l4-type
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}
Element Attributes	l4-type_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/stats
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/oper
Schema	`l4-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type

l4-type attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type

l4-type attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}

l4-type attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type

l4-type-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}

l4-type attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}

l4-type attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type

l4-type-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}

l4-type attributes

l4-type-list

l4-type-list is **JSON List** of *l4-type attributes*

```
l4-type-list : [
        { l4-type attributes },
        { l4-type attributes },
        ...
    ]
```

l4-type attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detection-enable

Description Enable ddos detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-syn-auth

Description Disable TCP SYN Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-on-no-port-match

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

enable-top-k

Description Enable ddos top-k entries

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *glid-exceed-action*

Type: Object

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow

Type: number

Range: 1-6

max-rexmit-syn-per-flow-exceed-action

Description 'drop': Drop the packet; 'black-list': Add the source IP into black list;

Type: string

Supported Values: drop, black-list

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking*

protocol

Description 'tcp': L4-Type TCP; 'udp': L4-Type UDP; 'icmp': L4-Type ICMP; 'other': L4-Type OTHER;

Type: string

Supported Values: tcp, udp, icmp, other

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-client

Description Send reset to client when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-reset-server

Description Send reset to server when rate exceeds or session ages out

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources*

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *tunnel-rate-limit*

Type: Object

undefined-port-hit-statistics

Description: undefined-port-hit-statistics is a **JSON Block**. Please see below for *undefined-port-hit-statistics*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

undefined-port-hit-statistics

Specification	Value
Type	*object*

reset-interval

Description Configure port scanning counter reset interval (minutes), Default 60 mins

Type: number

Range: 1-64000

Default: 60

undefined-port-hit-statistics

Description Enable port scanning statistics

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Specification	Value
Type	*object*

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *glid-exceed-action_stateless-encap-action-cfg*

Type: Object

glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_bit_rate_current':

Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max

topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

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Operational Status for the object l4-type

l4-type Specification

Parameter	Value
Type	*Collection*
Collection Name	*l4-type-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}
Element Name	l4-type
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/oper
Element Attributes	l4-type_attributes
Partition Visibility	None
Schema	`l4-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}

l4-type attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}

l4-type attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/oper

l4-type attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}

l4-type-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/oper

l4-type attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/oper

l4-type attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}

l4-type-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/oper

l4-type attributes

l4-type-list

l4-type-list is **JSON List** of *l4-type attributes*

```
l4-type-list : [
        { l4-type attributes },
        { l4-type attributes },
        ...
    ]
```

l4-type attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/topk-sources/progression-tracking*

protocol

Description 'tcp': L4-Type TCP; 'udp': L4-Type UDP; 'icmp': L4-Type ICMP; 'other': L4-Type OTHER;

Type: string

Supported Values: tcp, udp, icmp, other

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/topk-sources*

oper

Specification	Value
Type	*object*

all-l4-types

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: string

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

undefined-port-hit-statistics

Description

Type: boolean

Supported Values: true, false, 1, 0

undefined-port-hit-stats-non-wellknown

Type: List

undefined-port-hit-stats-wellknown

Type: List

undefined-stats-port-num

Description

Type: number

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

oper_undefined-port-hit-stats-wellknown

Specification	Value
Type	*list*
Block object keys	

counter

Description

Type: string

port

Description

Type: string

oper_undefined-port-hit-stats-non-wellknown

Specification	Value
Type	*list*
Block object keys	

port-end

Description

Type: string

port-start

Description

Type: string

status

Description

Type: string

port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-ind_oper*

Type: Object

port-ind_oper

Specification	Value
Type	*object*

detection-data-source

Description

Type: string

indicators

Type: List

port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

entry-average

Description

Type: string

entry-maximum

Description

Type: string

entry-minimum

Description

Type: string

entry-non-zero-minimum

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

src-maximum

Description

Type: string

topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-sources_oper*

Type: Object

topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *progression-tracking_oper*

Type: Object

progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

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DDos dst entry l4-type indicators

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind
Element Attributes	port-ind_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/stats
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/oper
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind

port-ind attributes

port-ind attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Ses-

sions Max; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max

2.33.80 ddos dst entry l4-type port-ind oper

Operational Status for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/oper
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/oper

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/oper

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/oper

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/oper

port-ind attributes

port-ind attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

detection-data-source

Description

Type: string

indicators

Type: List

oper_indicators

Specification	Value
Type	*list*
Block object keys	

entry-average

Description

Type: string

entry-maximum

Description

Type: string

entry-minimum

Description

Type: string

entry-non-zero-minimum

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

src-maximum

Description

Type: string

2.33.81 ddos dst entry l4-type port-ind stats

Statistics for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/stats
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/stats

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/stats

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/stats

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/port-ind/stats

port-ind attributes

port-ind attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ddet_ind_bit_rate_current

Description Bit Rate Current

Type: number

Format: counter

ddet_ind_bit_rate_max

Description Bit Rate Max

Type: number

Format: counter

ddet_ind_bit_rate_min

Description Bit Rate Min

Type: number

Format: counter

ddet_ind_concurrent_conns_current

Description TCP/UDP Concurrent Sessions Current

Type: number

Format: counter

ddet_ind_concurrent_conns_max

Description TCP/UDP Concurrent Sessions Max

Type: number

Format: counter

ddet_ind_concurrent_conns_min

Description TCP/UDP Concurrent Sessions Min

Type: number

Format: counter

ddet_ind_conn_miss_rate_current

Description TCP Session Miss Rate Current

Type: number

Format: counter

ddet_ind_conn_miss_rate_max

Description TCP Session Miss Rate Max

Type: number

Format: counter

ddet_ind_conn_miss_rate_min

Description TCP Session Miss Rate Min

Type: number

Format: counter

ddet_ind_data_cpu_util_current

Description Data CPU Utilization Current

Type: number

Format: counter

ddet_ind_data_cpu_util_max

Description Data CPU Utilization Max

Type: number

Format: counter

ddet_ind_data_cpu_util_min

Description Data CPU Utilization Min

Type: number

Format: counter

ddet_ind_empty_ack_rate_current

Description TCP Empty ACK Rate Current

Type: number

Format: counter

ddet_ind_empty_ack_rate_max

Description TCP Empty ACK Rate Max

Type: number

Format: counter

ddet_ind_empty_ack_rate_min

Description TCP Empty ACK Rate Min

Type: number

Format: counter

ddet_ind_fin_rate_current

Description TCP FIN Rate Current

Type: number

Format: counter

ddet_ind_fin_rate_max

Description TCP FIN Rate Max

Type: number

Format: counter

ddet_ind_fin_rate_min

Description TCP FIN Rate Min

Type: number

Format: counter

ddet_ind_frag_rate_current

Description Frag Pkt Rate Current

Type: number

Format: counter

ddet_ind_frag_rate_max

Description Frag Pkt Rate Max

Type: number

Format: counter

ddet_ind_frag_rate_min

Description Frag Pkt Rate Min

Type: number

Format: counter

ddet_ind_inb_per_outb_current

Description Bytes-to / Bytes-from Current

Type: number

Format: counter

ddet_ind_inb_per_outb_max

Description Bytes-to / Bytes-from Max

Type: number

Format: counter

ddet_ind_inb_per_outb_min

Description Bytes-to / Bytes-from Min

Type: number

Format: counter

ddet_ind_outside_intf_util_current

Description Outside Interface Utilization Current

Type: number

Format: counter

ddet_ind_outside_intf_util_max

Description Outside Interface Utilization Max

Type: number

Format: counter

ddet_ind_outside_intf_util_min

Description Outside Interface Utilization Min

Type: number

Format: counter

ddet_ind_pkt_drop_rate_current

Description Pkt Drop Rate Current

Type: number

Format: counter

ddet_ind_pkt_drop_rate_max

Description Pkt Drop Rate Max

Type: number

Format: counter

ddet_ind_pkt_drop_rate_min

Description Pkt Drop Rate Min

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_current

Description Pkt Drop / Pkt Rcvd Current

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_max

Description Pkt Drop / Pkt Rcvd Max

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_min

Description Pkt Drop / Pkt Rcvd Min

Type: number

Format: counter

ddet_ind_pkt_rate_current

Description Pkt Rate Current

Type: number

Format: counter

ddet_ind_pkt_rate_max

Description Pkt Rate Max

Type: number

Format: counter

ddet_ind_pkt_rate_min

Description Pkt Rate Min

Type: number

Format: counter

ddet_ind_rst_rate_current

Description TCP RST Rate Current

Type: number

Format: counter

ddet_ind_rst_rate_max

Description TCP RST Rate Max

Type: number

Format: counter

ddet_ind_rst_rate_min

Description TCP RST Rate Min

Type: number

Format: counter

ddet_ind_small_payload_rate_current

Description TCP Small Payload Rate Current

Type: number

Format: counter

ddet_ind_small_payload_rate_max

Description TCP Small Payload Rate Max

Type: number

Format: counter

ddet_ind_small_payload_rate_min

Description TCP Small Payload Rate Min

Type: number

Format: counter

ddet_ind_small_window_ack_rate_current

Description TCP Small Window ACK Rate Current

Type: number

Format: counter

ddet_ind_small_window_ack_rate_max

Description TCP Small Window ACK Rate Max

Type: number

Format: counter

ddet_ind_small_window_ack_rate_min

Description TCP Small Window ACK Rate Min

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_current

Description TCP SYN Rate / FIN Rate Current

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_max

Description TCP SYN Rate / FIN Rate Max

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_min

Description TCP SYN Rate / FIN Rate Min

Type: number

Format: counter

ddet_ind_syn_rate_current

Description TCP SYN Rate Current

Type: number

Format: counter

ddet_ind_syn_rate_max

Description TCP SYN Rate Max

Type: number

Format: counter

ddet_ind_syn_rate_min

Description TCP SYN Rate Min

Type: number

Format: counter

ip-proto-type

Description IP Protocol Type

Type: number

Format: counter

2.33.82 ddos dst entry l4-type progression-tracking

DDos dst l4-type progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking
Element Attributes	progression-tracking_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking/oper
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking

progression-tracking attributes

progression-tracking attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.83 ddos dst entry l4-type progression-tracking oper

Operational Status for the object progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking/oper
Element Attributes	progression-tracking_attributes
Partition Visibility	None
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking/oper

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking/oper

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking/oper

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/progression-tracking/oper

progression-tracking attributes

progression-tracking attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

indicators

Type: List

oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

2.33.84 ddos dst entry l4-type topk-sources

DDoS dst entry topk

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources
Element Attributes	topk-sources_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources/oper
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources

topk-sources attributes

topk-sources attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.85 ddos dst entry l4-type topk-sources oper

Operational Status for the object topk-sources

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources/oper
Element Attributes	topk-sources_attributes
Partition Visibility	None
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources/oper

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources/oper

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources/oper

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/l4-type/{protocol}/topk-sources/oper

topk-sources attributes

topk-sources attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.86 ddos dst entry oper

Operational Status for the object entry

entry Specification

Parameter	Value
Type	*Collection*
Collection Name	*entry-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}
Element Name	entry
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/oper
Element Attributes	entry_attributes
Partition Visibility	None
Schema	`entry schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}

entry attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}

entry attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/oper

entry attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}

entry-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/oper

entry attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/oper

entry attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}

entry-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/oper

entry attributes

entry-list

entry-list is **JSON List** of *entry attributes*

```
entry-list : [
        { entry attributes },
        { entry attributes },
        ...
    ]
```

entry attributes

dst-entry-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/topk-sources/progression-tracking/src-port/{port-num}+{protocol}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/ip-proto/{port-num}*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}*

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking/port-range/{port-range-start}+{port-range-end}+{protocol}*

src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/topk-sources/progression-tracking/src-port/{port-num}+{protocol}*

src-port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/topk-sources/progression-tracking/src-port/{port-num}+{protocol}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations*

oper

Specification	Value
Type	*object*

all-ip-protos

Description

Type: boolean

Supported Values: true, false, 1, 0

all-l4-types

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

all-src-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

app-type

Description

Type: string

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-holed

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

display-traffic-distribution-status

Description

Type: boolean

Supported Values: true, false, 1, 0

dst-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

dst-entry-name

Description

Type: string

Format: string-rlx

dst-service-alloc

Description

Type: string

Format: string-rlx

dst-service-limit

Description

Type: string

Format: string-rlx

dst-service-remain

Description

Type: string

Format: string-rlx

entry-address-str

Description

Type: string

Format: string-rlx

entry-count

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-displayed-count

Description

Type: number

entry-status

Description

Type: boolean

Supported Values: true, false, 1, 0

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: string

icmp-dynamic-entry-count

Description

Type: string

icmp-dynamic-entry-limit

Description

Type: string

ip-proto-num

Description

Type: number

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

l4-type-str

Description

Type: string

no-t2-idx-port-count

Description

Type: number

operational-mode

Description

Type: string

opt-protocol

Description

Type: string

opt-sport-protocol

Description

Type: string

other-dynamic-entry-count

Description

Type: string

other-dynamic-entry-limit

Description

Type: string

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

port-app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

port-num

Description

Type: number

port-range-end

Description

Type: number

port-range-start

Description

Type: number

protocol

Description

Type: string

resource-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

service-displayed-count

Description

Type: number

sflow-source-id

Description

Type: boolean

Supported Values: true, false, 1, 0

source-entry-alloc

Description

Type: string

Format: string-rlx

source-entry-limit

Description

Type: string

Format: string-rlx

source-entry-remain

Description

Type: string

Format: string-rlx

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

sport-protocol

Description

Type: string

src-port-num

Description

Type: number

src-port-range-end

Description

Type: number

src-port-range-start

Description

Type: number

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

tcp-dynamic-entry-count

Description

Type: string

tcp-dynamic-entry-limit

Description

Type: string

total-dynamic-entry-count

Description

Type: string

total-dynamic-entry-limit

Description

Type: string

traffic-distribution-status

Type: List

udp-dynamic-entry-count

Description

Type: string

udp-dynamic-entry-limit

Description

Type: string

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_traffic-distribution-status

Specification	Value
Type	*list*
Block object keys	

active-pu

Type: List

master-pu

Description

Type: string

oper_traffic-distribution-status_active-pu

Specification	Value
Type	*list*
Block object keys	

pu-id

Description

Type: string

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

port-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *port-list_oper*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *port-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *port-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind*

port-num

Description Port Number

Type: number

Range: 0-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *port-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *port-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind/topk-sources*

port-list_oper

Specification	Value
Type	*object*

all-ip-protos

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

all-src-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: string

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

port-protocol

Description

Type: string

reource-limit-alloc

Description

Type: string

reporting-status

Description

Type: number

resource-limit-config

Description

Type: string

resource-limit-remain

Description

Type: string

resource-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

service-displayed-count

Description

Type: number

sflow-source-id

Description

Type: boolean

Supported Values: true, false, 1, 0

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

port-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

port-list_pattern-recognition

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-list_pattern-recognition_oper*

Type: Object

port-list_pattern-recognition_oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

port-list_pattern-recognition_oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

port-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-list_pattern-recognition-pu-details_oper*

Type: Object

port-list_pattern-recognition-pu-details_oper

Specification	Value
Type	*object*

all-filters

Type: List

port-list_pattern-recognition-pu-details_oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

port-list_pattern-recognition-pu-details_oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

port-list_port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-list_port-ind_oper*

Type: Object

port-list_port-ind_oper

Specification	Value
Type	*object*

detection-data-source

Description

Type: string

indicators

Type: List

port-list_port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

entry-average

Description

Type: string

entry-maximum

Description

Type: string

entry-minimum

Description

Type: string

entry-non-zero-minimum

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

src-maximum

Description

Type: string

port-list_progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-list_progression-tracking_oper*

Type: Object

port-list_progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

port-list_progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

port-list_topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-list_topk-sources_oper*

Type: Object

port-list_topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

port-list_topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

port-list_topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

port-list_topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

port-list_topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

src-port-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *src-port-list_oper*

Type: Object

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-udp': DNS-UDP Port; 'dns-tcp': DNS-TCP Port; 'udp': UDP Port; 'tcp': TCP Port;

Type: string

Supported Values: dns-udp, dns-tcp, udp, tcp

src-port-list_oper

Specification	Value
Type	*object*

all-ip-protos

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

all-src-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: string

port-protocol

Description

Type: string

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sflow-source-id

Description

Type: boolean

Supported Values: true, false, 1, 0

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

src-port-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

ip-proto-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto-list_oper*

Type: Object

port-num

Description Protocol Number

Type: number

Range: 0-255

ip-proto-list_oper

Specification	Value
Type	*object*

all-ip-protos

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

all-src-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: string

port-protocol

Description

Type: string

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sflow-source-id

Description

Type: boolean

Supported Values: true, false, 1, 0

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

ip-proto-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

src-port-range-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *src-port-range-list_oper*

Type: Object

protocol

Description 'udp': UDP Port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

src-port-range-end

Description Src Port-Range End Port Number

Type: number

Range: 2-65535

src-port-range-start

Description Src Port-Range Start Port Number

Type: number

Range: 1-65535

src-port-range-list_oper

Specification	Value
Type	*object*

all-ip-protos

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

all-src-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: string

port-protocol

Description

Type: string

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sflow-source-id

Description

Type: boolean

Supported Values: true, false, 1, 0

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

src-port-range-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

port-range-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_oper*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *port-range-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/topk-sources/progression-tracking/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *port-range-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/topk-sources/progression-tracking/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-range-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *port-range-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/topk-sources/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *port-range-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/topk-sources*

port-range-list_oper

Specification	Value
Type	*object*

all-ip-protos

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

all-src-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: string

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

port-protocol

Description

Type: string

reource-limit-alloc

Description

Type: string

reporting-status

Description

Type: number

resource-limit-config

Description

Type: string

resource-limit-remain

Description

Type: string

resource-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

service-displayed-count

Description

Type: number

sflow-source-id

Description

Type: boolean

Supported Values: true, false, 1, 0

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

port-range-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

port-range-list_pattern-recognition

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_pattern-recognition_oper*

Type: Object

port-range-list_pattern-recognition_oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

port-range-list_pattern-recognition_oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

port-range-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_pattern-recognition-pu-details_oper*

Type: Object

port-range-list_pattern-recognition-pu-details_oper

Specification	Value
Type	*object*

all-filters

Type: List

port-range-list_pattern-recognition-pu-details_oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

port-range-list_pattern-recognition-pu-details_oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

port-range-list_port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_port-ind_oper*

Type: Object

port-range-list_port-ind_oper

Specification	Value
Type	*object*

detection-data-source

Description

Type: string

indicators

Type: List

port-range-list_port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

entry-average

Description

Type: string

entry-maximum

Description

Type: string

entry-minimum

Description

Type: string

entry-non-zero-minimum

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

src-maximum

Description

Type: string

port-range-list_progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_progression-tracking_oper*

Type: Object

port-range-list_progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

port-range-list_progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

port-range-list_topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_topk-sources_oper*

Type: Object

port-range-list_topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

port-range-list_topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

port-range-list_topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

port-range-list_topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

port-range-list_topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

l4-type-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *l4-type-list_oper*

Type: Object

port-ind

Description: port-ind is a **JSON Block**. Please see below for *l4-type-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *l4-type-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources/progression-tracking*

protocol

Description 'tcp': L4-Type TCP; 'udp': L4-Type UDP; 'icmp': L4-Type ICMP; 'other': L4-Type OTHER;

Type: string

Supported Values: tcp, udp, icmp, other

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *l4-type-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/l4-type/{protocol}/port-ind/topk-sources*

l4-type-list_oper

Specification	Value
Type	*object*

all-l4-types

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: string

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

undefined-port-hit-statistics

Description

Type: boolean

Supported Values: true, false, 1, 0

undefined-port-hit-stats-non-wellknown

Type: List

undefined-port-hit-stats-wellknown

Type: List

undefined-stats-port-num

Description

Type: number

l4-type-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

l4-type-list_oper_undefined-port-hit-stats-wellknown

Specification	Value
Type	*list*
Block object keys	

counter

Description

Type: string

port

Description

Type: string

l4-type-list_oper_undefined-port-hit-stats-non-wellknown

Specification	Value
Type	*list*
Block object keys	

port-end

Description

Type: string

port-start

Description

Type: string

status

Description

Type: string

l4-type-list_port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *l4-type-list_port-ind_oper*

Type: Object

l4-type-list_port-ind_oper

Specification	Value
Type	*object*

detection-data-source

Description

Type: string

indicators

Type: List

l4-type-list_port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

entry-average

Description

Type: string

entry-maximum

Description

Type: string

entry-minimum

Description

Type: string

entry-non-zero-minimum

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

src-maximum

Description

Type: string

l4-type-list_topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *l4-type-list_topk-sources_oper*

Type: Object

l4-type-list_topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

l4-type-list_topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

l4-type-list_topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

l4-type-list_topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

l4-type-list_topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

l4-type-list_progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *l4-type-list_progression-tracking_oper*

Type: Object

l4-type-list_progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

l4-type-list_progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

topk-destinations

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-destinations_oper*

Type: Object

topk-destinations_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-destinations_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-destinations_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-destinations_oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

topk-destinations_oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.87 ddos dst entry port

DDOS Port & Protocol configuration

port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num, protocol*
Collection Name	*port-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port
Element Name	port
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}
Element Attributes	port_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/stats
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/oper
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port

port attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port

port attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}

port attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port

port-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}

port attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}

port attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port

port-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}

port attributes

port-list

port-list is **JSON List** of *port attributes*

port-list : [

{ *port attributes* },

{ *port attributes* },

...

]

port attributes

capture-config

Description: capture-config is a **JSON Block**. Please see below for *capture-config*

Type: Object

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detection-enable

Description Enable ddos detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-cache

Description DNS Cache Instance

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/dns-cache*

enable-top-k

Description Enable ddos top-k entries

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *glid-exceed-action*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind*

port-num

Description Port Number

Type: number

Range: 0-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow

Description: sflow is a **JSON Block**. Please see below for *sflow*

Type: Object

signature-extraction

Description: signature-extraction is a **JSON Block**. Please see below for *signature-extraction*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/signature-extraction*

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

signature-extraction

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

manual-mode

Description Enable manual mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *glid-exceed-action_stateless-encap-action-cfg*

Type: Object

glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max':

TCP Small Window ACK Rate Max; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max

progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sflow

Specification	Value
Type	*object*

polling

Description: polling is a **JSON Block**. Please see below for *sflow_polling*

Type: Object

sflow_polling

Specification	Value
Type	*object*

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *sflow_polling_sflow-tcp*

Type: Object

sflow_polling_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.88 ddos dst entry port oper

Operational Status for the object port

port Specification

Parameter	Value
Type	*Collection*
Collection Name	*port-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}
Element Name	port
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/oper
Element Attributes	port_attributes
Partition Visibility	None
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}

port attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}

port attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/oper

port attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}

port-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/oper

port attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/oper

port attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}

port-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/oper

port attributes

port-list

port-list is **JSON List** of *port attributes*

port-list : [

{ *port attributes* },

{ *port attributes* },

...

]

port attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind*

port-num

Description Port Number

Type: number

Range: 0-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/topk-sources/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/topk-sources*

oper

Specification	Value
Type	*object*

all-ip-protos

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

all-src-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: string

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

port-protocol

Description

Type: string

reource-limit-alloc

Description

Type: string

reporting-status

Description

Type: number

resource-limit-config

Description

Type: string

resource-limit-remain

Description

Type: string

resource-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

service-displayed-count

Description

Type: number

sflow-source-id

Description

Type: boolean

Supported Values: true, false, 1, 0

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

pattern-recognition

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *pattern-recognition_oper*

Type: Object

pattern-recognition_oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

pattern-recognition_oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

pattern-recognition-pu-details

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *pattern-recognition-pu-details_oper*

Type: Object

pattern-recognition-pu-details_oper

Specification	Value
Type	*object*

all-filters

Type: List

pattern-recognition-pu-details_oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

pattern-recognition-pu-details_oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-ind_oper*

Type: Object

port-ind_oper

Specification	Value
Type	*object*

detection-data-source

Description

Type: string

indicators

Type: List

port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

entry-average

Description

Type: string

entry-maximum

Description

Type: string

entry-minimum

Description

Type: string

entry-non-zero-minimum

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

src-maximum

Description

Type: string

progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *progression-tracking_oper*

Type: Object

progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-sources_oper*

Type: Object

topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.89 ddos dst entry port pattern-recognition

Enable Pattern Recognition

pattern-recognition Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition
Element Attributes	pattern-recognition_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition/oper
Schema	`pattern-recognition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition

pattern-recognition attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition

pattern-recognition attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition

pattern-recognition attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition

pattern-recognition attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition

pattern-recognition attributes

pattern-recognition attributes

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.90 ddos dst entry port pattern-recognition oper

Operational Status for the object pattern-recognition

pattern-recognition Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition/oper
Element Attributes	pattern-recognition_attributes
Partition Visibility	None
Schema	`pattern-recognition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

pattern-recognition attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

2.33.91 ddos dst entry port pattern-recognition-pu-details

pattern-recognition-pu-details Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition-pu-details
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details
Element Attributes	pattern-recognition-pu-details_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details/oper
Schema	`pattern-recognition-pu-details schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

pattern-recognition-pu-details attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.92 ddos dst entry port pattern-recognition-pu-details oper

Operational Status for the object pattern-recognition-pu-details

pattern-recognition-pu-details Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition-pu-details
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details/oper
Element Attributes	pattern-recognition-pu-details_attributes
Partition Visibility	None
Schema	`pattern-recognition-pu-details schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

pattern-recognition-pu-details attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-filters

Type: List

oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

2.33.93 ddos dst entry port port-ind

DDos dst entry port indicators

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind
Element Attributes	port-ind_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/stats
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/oper
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind

port-ind attributes

port-ind attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Ses-

sions Max; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max

2.33.94 ddos dst entry port port-ind oper

Operational Status for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/oper
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/oper

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/oper

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/oper

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/oper

port-ind attributes

port-ind attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

detection-data-source

Description

Type: string

indicators

Type: List

oper_indicators

Specification	Value
Type	*list*
Block object keys	

entry-average

Description

Type: string

entry-maximum

Description

Type: string

entry-minimum

Description

Type: string

entry-non-zero-minimum

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

src-maximum

Description

Type: string

2.33.95 ddos dst entry port port-ind stats

Statistics for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/stats
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/stats

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/stats

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/stats

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/port-ind/stats

port-ind attributes

port-ind attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ddet_ind_bit_rate_current

Description Bit Rate Current

Type: number

Format: counter

ddet_ind_bit_rate_max

Description Bit Rate Max

Type: number

Format: counter

ddet_ind_bit_rate_min

Description Bit Rate Min

Type: number

Format: counter

ddet_ind_concurrent_conns_current

Description TCP/UDP Concurrent Sessions Current

Type: number

Format: counter

ddet_ind_concurrent_conns_max

Description TCP/UDP Concurrent Sessions Max

Type: number

Format: counter

ddet_ind_concurrent_conns_min

Description TCP/UDP Concurrent Sessions Min

Type: number

Format: counter

ddet_ind_conn_miss_rate_current

Description TCP Session Miss Rate Current

Type: number

Format: counter

ddet_ind_conn_miss_rate_max

Description TCP Session Miss Rate Max

Type: number

Format: counter

ddet_ind_conn_miss_rate_min

Description TCP Session Miss Rate Min

Type: number

Format: counter

ddet_ind_data_cpu_util_current

Description Data CPU Utilization Current

Type: number

Format: counter

ddet_ind_data_cpu_util_max

Description Data CPU Utilization Max

Type: number

Format: counter

ddet_ind_data_cpu_util_min

Description Data CPU Utilization Min

Type: number

Format: counter

ddet_ind_empty_ack_rate_current

Description TCP Empty ACK Rate Current

Type: number

Format: counter

ddet_ind_empty_ack_rate_max

Description TCP Empty ACK Rate Max

Type: number

Format: counter

ddet_ind_empty_ack_rate_min

Description TCP Empty ACK Rate Min

Type: number

Format: counter

ddet_ind_fin_rate_current

Description TCP FIN Rate Current

Type: number

Format: counter

ddet_ind_fin_rate_max

Description TCP FIN Rate Max

Type: number

Format: counter

ddet_ind_fin_rate_min

Description TCP FIN Rate Min

Type: number

Format: counter

ddet_ind_frag_rate_current

Description Frag Pkt Rate Current

Type: number

Format: counter

ddet_ind_frag_rate_max

Description Frag Pkt Rate Max

Type: number

Format: counter

ddet_ind_frag_rate_min

Description Frag Pkt Rate Min

Type: number

Format: counter

ddet_ind_inb_per_outb_current

Description Bytes-to / Bytes-from Current

Type: number

Format: counter

ddet_ind_inb_per_outb_max

Description Bytes-to / Bytes-from Max

Type: number

Format: counter

ddet_ind_inb_per_outb_min

Description Bytes-to / Bytes-from Min

Type: number

Format: counter

ddet_ind_outside_intf_util_current

Description Outside Interface Utilization Current

Type: number

Format: counter

ddet_ind_outside_intf_util_max

Description Outside Interface Utilization Max

Type: number

Format: counter

ddet_ind_outside_intf_util_min

Description Outside Interface Utilization Min

Type: number

Format: counter

ddet_ind_pkt_drop_rate_current

Description Pkt Drop Rate Current

Type: number

Format: counter

ddet_ind_pkt_drop_rate_max

Description Pkt Drop Rate Max

Type: number

Format: counter

ddet_ind_pkt_drop_rate_min

Description Pkt Drop Rate Min

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_current

Description Pkt Drop / Pkt Rcvd Current

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_max

Description Pkt Drop / Pkt Rcvd Max

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_min

Description Pkt Drop / Pkt Rcvd Min

Type: number

Format: counter

ddet_ind_pkt_rate_current

Description Pkt Rate Current

Type: number

Format: counter

ddet_ind_pkt_rate_max

Description Pkt Rate Max

Type: number

Format: counter

ddet_ind_pkt_rate_min

Description Pkt Rate Min

Type: number

Format: counter

ddet_ind_rst_rate_current

Description TCP RST Rate Current

Type: number

Format: counter

ddet_ind_rst_rate_max

Description TCP RST Rate Max

Type: number

Format: counter

ddet_ind_rst_rate_min

Description TCP RST Rate Min

Type: number

Format: counter

ddet_ind_small_payload_rate_current

Description TCP Small Payload Rate Current

Type: number

Format: counter

ddet_ind_small_payload_rate_max

Description TCP Small Payload Rate Max

Type: number

Format: counter

ddet_ind_small_payload_rate_min

Description TCP Small Payload Rate Min

Type: number

Format: counter

ddet_ind_small_window_ack_rate_current

Description TCP Small Window ACK Rate Current

Type: number

Format: counter

ddet_ind_small_window_ack_rate_max

Description TCP Small Window ACK Rate Max

Type: number

Format: counter

ddet_ind_small_window_ack_rate_min

Description TCP Small Window ACK Rate Min

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_current

Description TCP SYN Rate / FIN Rate Current

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_max

Description TCP SYN Rate / FIN Rate Max

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_min

Description TCP SYN Rate / FIN Rate Min

Type: number

Format: counter

ddet_ind_syn_rate_current

Description TCP SYN Rate Current

Type: number

Format: counter

ddet_ind_syn_rate_max

Description TCP SYN Rate Max

Type: number

Format: counter

ddet_ind_syn_rate_min

Description TCP SYN Rate Min

Type: number

Format: counter

ip-proto-type

Description IP Protocol Type

Type: number

Format: counter

2.33.96 ddos dst entry port progression-tracking

DDos dst port progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking
Element Attributes	progression-tracking_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking/oper
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking

progression-tracking attributes

progression-tracking attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.97 ddos dst entry port progression-tracking oper

Operational Status for the object progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking/oper
Element Attributes	progression-tracking_attributes
Partition Visibility	None
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking/oper

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking/oper

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking/oper

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/progression-tracking/oper

progression-tracking attributes

progression-tracking attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

indicators

Type: List

oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

2.33.98 ddos dst entry port-range

DDOS Port-Range & Protocol configuration

port-range Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-range-start, port-range-end, protocol*
Collection Name	*port-range-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range
Element Name	port-range
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}
Element Attributes	port-range_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/stats
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/oper
Schema	`port-range schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range

port-range attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range

port-range attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range

port-range-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range

port-range-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

port-range-list

port-range-list is **JSON List** of *port-range attributes*

port-range-list : [

{ *port-range attributes* },

{ *port-range attributes* },

...

]

port-range attributes

capture-config

Description: capture-config is a **JSON Block**. Please see below for *capture-config*

Type: Object

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detection-enable

Description Enable ddos detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k entries

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-exceed-action

Description: glid-exceed-action is a **JSON Block**. Please see below for *glid-exceed-action*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow

Description: sflow is a **JSON Block**. Please see below for *sflow*

Type: Object

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

glid-exceed-action

Specification	Value
Type	*object*

stateless-encap-action-cfg

Description: stateless-encap-action-cfg is a **JSON Block**. Please see below for *glid-exceed-action_stateless-encap-action-cfg*

Type: Object

glid-exceed-action_stateless-encap-action-cfg

Specification	Value
Type	*object*

encap-template

Description Apply legacy encap template for encap action

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/template/encap*

stateless-encap-action

Description 'stateless-tunnel-encap': Encapsulate all packets; 'stateless-tunnel-encap-scrubbed': Encapsulate all packets and allow packets to go through other DDoS checks before sent (conn-limit exceeded packet can not be scrubbed, it will default to stateless-tunnel-encap);

Type: string

Supported Values: stateless-tunnel-encap, stateless-tunnel-encap-scrubbed

pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max':

TCP Small Window ACK Rate Max; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max

progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sflow

Specification	Value
Type	*object*

polling

Description: polling is a **JSON Block**. Please see below for *sflow_polling*

Type: Object

sflow_polling

Specification	Value
Type	*object*

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *sflow_polling_sflow-tcp*

Type: Object

sflow_polling_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.99 ddos dst entry port-range oper

Operational Status for the object port-range

port-range Specification

Parameter	Value
Type	*Collection*
Collection Name	*port-range-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}
Element Name	port-range
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/oper
Element Attributes	port-range_attributes
Partition Visibility	None
Schema	`port-range schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/oper

port-range attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/oper

port-range attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/oper

port-range attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/oper

port-range attributes

port-range-list

port-range-list is **JSON List** of *port-range attributes*

port-range-list : [

{ *port-range attributes* },

{ *port-range attributes* },

...

]

port-range attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/topk-sources/progression-tracking/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/topk-sources/progression-tracking/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/topk-sources/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/topk-sources*

oper

Specification	Value
Type	*object*

all-ip-protos

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

all-src-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: string

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

port-protocol

Description

Type: string

reource-limit-alloc

Description

Type: string

reporting-status

Description

Type: number

resource-limit-config

Description

Type: string

resource-limit-remain

Description

Type: string

resource-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

service-displayed-count

Description

Type: number

sflow-source-id

Description

Type: boolean

Supported Values: true, false, 1, 0

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

pattern-recognition

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *pattern-recognition_oper*

Type: Object

pattern-recognition_oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

pattern-recognition_oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

pattern-recognition-pu-details

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *pattern-recognition-pu-details_oper*

Type: Object

pattern-recognition-pu-details_oper

Specification	Value
Type	*object*

all-filters

Type: List

pattern-recognition-pu-details_oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

pattern-recognition-pu-details_oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-ind_oper*

Type: Object

port-ind_oper

Specification	Value
Type	*object*

detection-data-source

Description

Type: string

indicators

Type: List

port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

entry-average

Description

Type: string

entry-maximum

Description

Type: string

entry-minimum

Description

Type: string

entry-non-zero-minimum

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

src-maximum

Description

Type: string

progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *progression-tracking_oper*

Type: Object

progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-sources_oper*

Type: Object

topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.100 ddos dst entry port-range pattern-recognition

Enable Pattern Recognition

pattern-recognition Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition
Element Attributes	pattern-recognition_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper
Schema	`pattern-recognition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition

pattern-recognition attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition

pattern-recognition attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition

pattern-recognition attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition

pattern-recognition attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition

pattern-recognition attributes

pattern-recognition attributes

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.101 ddos dst entry port-range pattern-recognition oper

Operational Status for the object pattern-recognition

pattern-recognition Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper
Element Attributes	pattern-recognition_attributes
Partition Visibility	None
Schema	`pattern-recognition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

pattern-recognition attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

2.33.102 ddos dst entry port-range pattern-recognition-pu-details

pattern-recognition-pu-details Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition-pu-details
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details
Element Attributes	pattern-recognition-pu-details_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details/oper
Schema	`pattern-recognition-pu-details schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

pattern-recognition-pu-details attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.103 ddos dst entry port-range pattern-recognition-pu-details oper

Operational Status for the object pattern-recognition-pu-details

pattern-recognition-pu-details Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition-pu-details
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details/oper
Element Attributes	pattern-recognition-pu-details_attributes
Partition Visibility	None
Schema	`pattern-recognition-pu-details schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

pattern-recognition-pu-details attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-filters

Type: List

oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

2.33.104 ddos dst entry port-range port-ind

DDos dst entry port-range indicators

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind
Element Attributes	port-ind_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/stats
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/oper
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind

port-ind attributes

port-ind attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Ses-

sions Max; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max

2.33.105 ddos dst entry port-range port-ind oper

Operational Status for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/oper
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/oper

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/oper

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/oper

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/oper

port-ind attributes

port-ind attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

detection-data-source

Description

Type: string

indicators

Type: List

oper_indicators

Specification	Value
Type	*list*
Block object keys	

entry-average

Description

Type: string

entry-maximum

Description

Type: string

entry-minimum

Description

Type: string

entry-non-zero-minimum

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

src-maximum

Description

Type: string

2.33.106 ddos dst entry port-range port-ind stats

Statistics for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/stats
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/stats

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/stats

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/stats

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/stats

port-ind attributes

port-ind attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ddet_ind_bit_rate_current

Description Bit Rate Current

Type: number

Format: counter

ddet_ind_bit_rate_max

Description Bit Rate Max

Type: number

Format: counter

ddet_ind_bit_rate_min

Description Bit Rate Min

Type: number

Format: counter

ddet_ind_concurrent_conns_current

Description TCP/UDP Concurrent Sessions Current

Type: number

Format: counter

ddet_ind_concurrent_conns_max

Description TCP/UDP Concurrent Sessions Max

Type: number

Format: counter

ddet_ind_concurrent_conns_min

Description TCP/UDP Concurrent Sessions Min

Type: number

Format: counter

ddet_ind_conn_miss_rate_current

Description TCP Session Miss Rate Current

Type: number

Format: counter

ddet_ind_conn_miss_rate_max

Description TCP Session Miss Rate Max

Type: number

Format: counter

ddet_ind_conn_miss_rate_min

Description TCP Session Miss Rate Min

Type: number

Format: counter

ddet_ind_data_cpu_util_current

Description Data CPU Utilization Current

Type: number

Format: counter

ddet_ind_data_cpu_util_max

Description Data CPU Utilization Max

Type: number

Format: counter

ddet_ind_data_cpu_util_min

Description Data CPU Utilization Min

Type: number

Format: counter

ddet_ind_empty_ack_rate_current

Description TCP Empty ACK Rate Current

Type: number

Format: counter

ddet_ind_empty_ack_rate_max

Description TCP Empty ACK Rate Max

Type: number

Format: counter

ddet_ind_empty_ack_rate_min

Description TCP Empty ACK Rate Min

Type: number

Format: counter

ddet_ind_fin_rate_current

Description TCP FIN Rate Current

Type: number

Format: counter

ddet_ind_fin_rate_max

Description TCP FIN Rate Max

Type: number

Format: counter

ddet_ind_fin_rate_min

Description TCP FIN Rate Min

Type: number

Format: counter

ddet_ind_frag_rate_current

Description Frag Pkt Rate Current

Type: number

Format: counter

ddet_ind_frag_rate_max

Description Frag Pkt Rate Max

Type: number

Format: counter

ddet_ind_frag_rate_min

Description Frag Pkt Rate Min

Type: number

Format: counter

ddet_ind_inb_per_outb_current

Description Bytes-to / Bytes-from Current

Type: number

Format: counter

ddet_ind_inb_per_outb_max

Description Bytes-to / Bytes-from Max

Type: number

Format: counter

ddet_ind_inb_per_outb_min

Description Bytes-to / Bytes-from Min

Type: number

Format: counter

ddet_ind_outside_intf_util_current

Description Outside Interface Utilization Current

Type: number

Format: counter

ddet_ind_outside_intf_util_max

Description Outside Interface Utilization Max

Type: number

Format: counter

ddet_ind_outside_intf_util_min

Description Outside Interface Utilization Min

Type: number

Format: counter

ddet_ind_pkt_drop_rate_current

Description Pkt Drop Rate Current

Type: number

Format: counter

ddet_ind_pkt_drop_rate_max

Description Pkt Drop Rate Max

Type: number

Format: counter

ddet_ind_pkt_drop_rate_min

Description Pkt Drop Rate Min

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_current

Description Pkt Drop / Pkt Rcvd Current

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_max

Description Pkt Drop / Pkt Rcvd Max

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_min

Description Pkt Drop / Pkt Rcvd Min

Type: number

Format: counter

ddet_ind_pkt_rate_current

Description Pkt Rate Current

Type: number

Format: counter

ddet_ind_pkt_rate_max

Description Pkt Rate Max

Type: number

Format: counter

ddet_ind_pkt_rate_min

Description Pkt Rate Min

Type: number

Format: counter

ddet_ind_rst_rate_current

Description TCP RST Rate Current

Type: number

Format: counter

ddet_ind_rst_rate_max

Description TCP RST Rate Max

Type: number

Format: counter

ddet_ind_rst_rate_min

Description TCP RST Rate Min

Type: number

Format: counter

ddet_ind_small_payload_rate_current

Description TCP Small Payload Rate Current

Type: number

Format: counter

ddet_ind_small_payload_rate_max

Description TCP Small Payload Rate Max

Type: number

Format: counter

ddet_ind_small_payload_rate_min

Description TCP Small Payload Rate Min

Type: number

Format: counter

ddet_ind_small_window_ack_rate_current

Description TCP Small Window ACK Rate Current

Type: number

Format: counter

ddet_ind_small_window_ack_rate_max

Description TCP Small Window ACK Rate Max

Type: number

Format: counter

ddet_ind_small_window_ack_rate_min

Description TCP Small Window ACK Rate Min

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_current

Description TCP SYN Rate / FIN Rate Current

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_max

Description TCP SYN Rate / FIN Rate Max

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_min

Description TCP SYN Rate / FIN Rate Min

Type: number

Format: counter

ddet_ind_syn_rate_current

Description TCP SYN Rate Current

Type: number

Format: counter

ddet_ind_syn_rate_max

Description TCP SYN Rate Max

Type: number

Format: counter

ddet_ind_syn_rate_min

Description TCP SYN Rate Min

Type: number

Format: counter

ip-proto-type

Description IP Protocol Type

Type: number

Format: counter

2.33.107 ddos dst entry port-range progression-tracking

DDos dst port-range progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking
Element Attributes	progression-tracking_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking/oper
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking

progression-tracking attributes

progression-tracking attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.108 ddos dst entry port-range progression-tracking oper

Operational Status for the object progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking/oper
Element Attributes	progression-tracking_attributes
Partition Visibility	None
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking/oper

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking/oper

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking/oper

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking/oper

progression-tracking attributes

progression-tracking attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

indicators

Type: List

oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

2.33.109 ddos dst entry port-range topk-sources

DDoS dst entry topk

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources
Element Attributes	topk-sources_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources/oper
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources

topk-sources attributes

topk-sources attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.110 ddos dst entry port-range topk-sources oper

Operational Status for the object topk-sources

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources/oper
Element Attributes	topk-sources_attributes
Partition Visibility	None
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources/oper

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources/oper

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources/oper

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources/oper

topk-sources attributes

topk-sources attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.111 ddos dst entry port signature-extraction

Enable Signature Extraction

signature-extraction Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	signature-extraction
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/signature-extraction
Element Attributes	signature-extraction_attributes
Partition Visibility	shared
Schema	`signature-extraction schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/signature-extraction

signature-extraction attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/signature-extraction

signature-extraction attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/signature-extraction

signature-extraction attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/signature-extraction

signature-extraction attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/signature-extraction

signature-extraction attributes

signature-extraction attributes

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

manual-mode

Description Enable manual mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.112 ddos dst entry port topk-sources

DDoS dst entry topk

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources
Element Attributes	topk-sources_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources/oper
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources

topk-sources attributes

topk-sources attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.113 ddos dst entry port topk-sources oper

Operational Status for the object topk-sources

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources/oper
Element Attributes	topk-sources_attributes
Partition Visibility	None
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources/oper

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources/oper

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources/oper

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/port/{port-num}+{protocol}/topk-sources/oper

topk-sources attributes

topk-sources attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.114 ddos dst entry src-dst-pair

per-Source-Destination pair Source-limiting configuration

src-dst-pair Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	src-dst-pair
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair
Element Attributes	src-dst-pair_attributes
Partition Visibility	shared
Schema	`src-dst-pair schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair

src-dst-pair attributes

```
POST /axapi/v3/ddos/dst/entry/a/src-dst-pair
Payload:
{
    "src-dst-pair": {
        "default": 1,
        "bypass": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair

src-dst-pair attributes

```
GET /axapi/v3/ddos/dst/entry/a/src-dst-pair
Reponse:
{
    "src-dst-pair": {
        "default": 1,
        "bypass": 1,
        "exceed-log-cfg": {
            "log-enable": 0
        },
        "log-periodic": 0,
        "uuid": "850bf1b4-0860-11f0-bc03-3dc8e3bd18dc",
        "a10-url": "/axapi/v3/ddos/dst/entry/a/src-dst-pair"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair

src-dst-pair attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair

src-dst-pair attributes

```
PUT /axapi/v3/ddos/dst/entry/a/src-dst-pair
Payload:
{
    "src-dst-pair": {
        "default": 1,
        "bypass": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair

src-dst-pair attributes

```
DELETE /axapi/v3/ddos/dst/entry/a/src-dst-pair
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

src-dst-pair attributes

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default

Description Configure default

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.115 ddos dst entry src-dst-pair app-type-src-dst

DDOS APP type

app-type-src-dst Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*app-type-src-dst-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst
Element Name	app-type-src-dst
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst/{protocol}
Element Attributes	app-type-src-dst_attributes
Partition Visibility	shared
Schema	`app-type-src-dst schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst

app-type-src-dst attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst

app-type-src-dst attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst/{protocol}

app-type-src-dst attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst

app-type-src-dst-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst/{protocol}

app-type-src-dst attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst/{protocol}

app-type-src-dst attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst

app-type-src-dst-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/app-type-src-dst/{protocol}

app-type-src-dst attributes

app-type-src-dst-list

app-type-src-dst-list is **JSON List** of *app-type-src-dst attributes*

app-type-src-dst-list : [

{ *app-type-src-dst attributes* },

{ *app-type-src-dst attributes* },

...

]

app-type-src-dst attributes

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.116 ddos dst entry src-dst-pair-class-list

Configure class-list

src-dst-pair-class-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*class-list-name*
Collection Name	*src-dst-pair-class-list-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list
Element Name	src-dst-pair-class-list
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}
Element Attributes	src-dst-pair-class-list_attributes
Partition Visibility	shared
Schema	`src-dst-pair-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list

src-dst-pair-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list

src-dst-pair-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}

src-dst-pair-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list

src-dst-pair-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}

src-dst-pair-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}

src-dst-pair-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list

src-dst-pair-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}

src-dst-pair-class-list attributes

src-dst-pair-class-list-list

src-dst-pair-class-list-list is **JSON List** of *src-dst-pair-class-list attributes*

```
src-dst-pair-class-list-list : [
        { src-dst-pair-class-list attributes },
        { src-dst-pair-class-list attributes },
        ...
    ]
```

src-dst-pair-class-list attributes

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst/{protocol}*

cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}*

class-list-name

Description Class-list name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *exceed-log-cfg*

Type: Object

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cid-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid/{protocol}*

cid-num

Description Class-list id

Type: number

Range: 1-32

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *cid-list_exceed-log-cfg*

Type: Object

l4-type-src-dst-cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cid-list_app-type-src-dst-cid-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *cid-list_app-type-src-dst-cid-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cid-list_app-type-src-dst-cid-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

cid-list_l4-type-src-dst-cid-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *cid-list_l4-type-src-dst-cid-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cid-list_l4-type-src-dst-cid-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

cid-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.117 ddos dst entry src-dst-pair-class-list app-type-src-dst

DDOS APP type

app-type-src-dst Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*app-type-src-dst-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst
Element Name	app-type-src-dst
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst/{protocol}
Element Attributes	app-type-src-dst_attributes
Partition Visibility	shared
Schema	`app-type-src-dst schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst

app-type-src-dst attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst

app-type-src-dst attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst/{protocol}

app-type-src-dst attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst

app-type-src-dst-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst/{protocol}

app-type-src-dst attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst/{protocol}

app-type-src-dst attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst

app-type-src-dst-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/app-type-src-dst/{protocol}

app-type-src-dst attributes

app-type-src-dst-list

app-type-src-dst-list is **JSON List** of *app-type-src-dst attributes*

app-type-src-dst-list : [

{ *app-type-src-dst attributes* },

{ *app-type-src-dst attributes* },

...

]

app-type-src-dst attributes

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.118 ddos dst entry src-dst-pair-class-list cid

Class-list id

cid Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*cid-num*
Collection Name	*cid-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid
Element Name	cid
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}
Element Attributes	cid_attributes
Partition Visibility	shared
Schema	`cid schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid

cid attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid

cid attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}

cid attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid

cid-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}

cid attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}

cid attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid

cid-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}

cid attributes

cid-list

cid-list is **JSON List** of *cid attributes*

```
cid-list : [
        { cid attributes },
        { cid attributes },
        ...
    ]
```

cid attributes

app-type-src-dst-cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid/{protocol}*

cid-num

Description Class-list id

Type: number

Range: 1-32

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *exceed-log-cfg*

Type: Object

l4-type-src-dst-cid-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-src-dst-cid-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *app-type-src-dst-cid-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-src-dst-cid-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

l4-type-src-dst-cid-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *l4-type-src-dst-cid-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-src-dst-cid-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.119 ddos dst entry src-dst-pair-class-list cid app-type-src-dst-cid

DDOS APP type

app-type-src-dst-cid Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*app-type-src-dst-cid-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid
Element Name	app-type-src-dst-cid
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid/{protocol}
Element Attributes	app-type-src-dst-cid_attributes
Partition Visibility	shared
Schema	`app-type-src-dst-cid schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid

app-type-src-dst-cid attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid

app-type-src-dst-cid attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid/{protocol}

app-type-src-dst-cid attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid

app-type-src-dst-cid-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid/{protocol}

app-type-src-dst-cid attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid/{protocol}

app-type-src-dst-cid attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid

app-type-src-dst-cid-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/app-type-src-dst-cid/{protocol}

app-type-src-dst-cid attributes

app-type-src-dst-cid-list

app-type-src-dst-cid-list is **JSON List** of *app-type-src-dst-cid attributes*

app-type-src-dst-cid-list : [

{ *app-type-src-dst-cid attributes* },

{ *app-type-src-dst-cid attributes* },

...

]

app-type-src-dst-cid attributes

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.120 ddos dst entry src-dst-pair-class-list cid l4-type-src-dst-cid

DDOS L4 type

l4-type-src-dst-cid Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-src-dst-cid-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid
Element Name	l4-type-src-dst-cid
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid/{protocol}
Element Attributes	l4-type-src-dst-cid_attributes
Partition Visibility	shared
Schema	`l4-type-src-dst-cid schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid

l4-type-src-dst-cid attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid

l4-type-src-dst-cid attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid/{protocol}

l4-type-src-dst-cid attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid

l4-type-src-dst-cid-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid/{protocol}

l4-type-src-dst-cid attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid/{protocol}

l4-type-src-dst-cid attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid

l4-type-src-dst-cid-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/cid/{cid-num}/l4-type-src-dst-cid/{protocol}

l4-type-src-dst-cid attributes

l4-type-src-dst-cid-list

l4-type-src-dst-cid-list is **JSON List** of *l4-type-src-dst-cid attributes*

l4-type-src-dst-cid-list : [

{ *l4-type-src-dst-cid attributes* },

{ *l4-type-src-dst-cid attributes* },

...

]

l4-type-src-dst-cid attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.121 ddos dst entry src-dst-pair-class-list l4-type-src-dst

DDOS L4 type

l4-type-src-dst Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-src-dst-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst
Element Name	l4-type-src-dst
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst/{protocol}
Element Attributes	l4-type-src-dst_attributes
Partition Visibility	shared
Schema	`l4-type-src-dst schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst

l4-type-src-dst attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst

l4-type-src-dst attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst

l4-type-src-dst-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst

l4-type-src-dst-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-class-list/{class-list-name}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

l4-type-src-dst-list

l4-type-src-dst-list is **JSON List** of *l4-type-src-dst attributes*

```
l4-type-src-dst-list : [
        { l4-type-src-dst attributes },
        { l4-type-src-dst attributes },
        ...
    ]
```

l4-type-src-dst attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.122 ddos dst entry src-dst-pair l4-type-src-dst

DDOS L4 type

l4-type-src-dst Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-src-dst-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst
Element Name	l4-type-src-dst
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst/{protocol}
Element Attributes	l4-type-src-dst_attributes
Partition Visibility	shared
Schema	`l4-type-src-dst schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst

l4-type-src-dst attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst

l4-type-src-dst attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst

l4-type-src-dst-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst

l4-type-src-dst-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

l4-type-src-dst-list

l4-type-src-dst-list is **JSON List** of *l4-type-src-dst attributes*

```
l4-type-src-dst-list : [
        { l4-type-src-dst attributes },
        { l4-type-src-dst attributes },
        ...
    ]
```

l4-type-src-dst attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.123 ddos dst entry src-dst-pair-policy

Configure class-list

src-dst-pair-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*src-based-policy-name*
Collection Name	*src-dst-pair-policy-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy
Element Name	src-dst-pair-policy
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}
Element Attributes	src-dst-pair-policy_attributes
Partition Visibility	shared
Schema	`src-dst-pair-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy

src-dst-pair-policy attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy

src-dst-pair-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}

src-dst-pair-policy attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy

src-dst-pair-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}

src-dst-pair-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}

src-dst-pair-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy

src-dst-pair-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}

src-dst-pair-policy attributes

src-dst-pair-policy-list

src-dst-pair-policy-list is **JSON List** of *src-dst-pair-policy attributes*

```
src-dst-pair-policy-list : [
        { src-dst-pair-policy attributes },
        { src-dst-pair-policy attributes },
        ...
    ]
```

src-dst-pair-policy attributes

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Src-based-policy name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *policy-class-list-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry under class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

template

Description: template is a **JSON Block**. Please see below for *policy-class-list-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

policy-class-list-list_app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *policy-class-list-list_app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list_app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow

policy-class-list-list_l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *policy-class-list-list_l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list_l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-overflow-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dummy-name

Description 'configuration': Configure src dst dynamic entry count overflow policy for class-list;

Type: string

Supported Values: configuration

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *policy-class-list-list_class-list-overflow-policy-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-overflow-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *policy-class-list-list_class-list-overflow-policy-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list_class-list-overflow-policy-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

policy-class-list-list_class-list-overflow-policy-list_l4-type-src-dst-overflow-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description ‘tcp’: tcp; ‘udp’: udp; ‘icmp’: icmp; ‘other’: other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *policy-class-list-list_class-list-overflow-policy-list_l4-type-src-dst-overflow-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list_class-list-overflow-policy-list_l4-type-src-dst-overflow-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

policy-class-list-list_class-list-overflow-policy-list_app-type-src-dst-overflow-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *policy-class-list-list_class-list-overflow-policy-list_app-type-src-dst-overflow-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list_class-list-overflow-policy-list_app-type-src-dst-overflow-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

policy-class-list-list_class-list-overflow-policy-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

policy-class-list-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.124 ddos dst entry src-dst-pair-policy policy-class-list

Configure class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*class-list-name*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Attributes	policy-class-list_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

app-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry under class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

app-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *app-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-src-dst-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow

l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *l4-type-src-dst-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-src-dst-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

app-type-src-dst-overflow-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dummy-name

Description 'configuration': Configure src dst dynamic entry count overflow policy for class-list;

Type: string

Supported Values: configuration

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *class-list-overflow-policy-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-overflow-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *class-list-overflow-policy-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

class-list-overflow-policy-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

class-list-overflow-policy-list_l4-type-src-dst-overflow-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *class-list-overflow-policy-list_l4-type-src-dst-overflow-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

class-list-overflow-policy-list_l4-type-src-dst-overflow-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

class-list-overflow-policy-list_app-type-src-dst-overflow-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *class-list-overflow-policy-list_app-type-src-dst-overflow-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

class-list-overflow-policy-list_app-type-src-dst-overflow-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

class-list-overflow-policy-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.125 ddos dst entry src-dst-pair-policy policy-class-list app-type-src-dst

DDOS APP type

app-type-src-dst Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*app-type-src-dst-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst
Element Name	app-type-src-dst
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst/{protocol}
Element Attributes	app-type-src-dst_attributes
Partition Visibility	shared
Schema	`app-type-src-dst schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst

app-type-src-dst attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst

app-type-src-dst attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst/{protocol}

app-type-src-dst attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst

app-type-src-dst-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst/{protocol}

app-type-src-dst attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst/{protocol}

app-type-src-dst attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst

app-type-src-dst-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/app-type-src-dst/{protocol}

app-type-src-dst attributes

app-type-src-dst-list

app-type-src-dst-list is **JSON List** of *app-type-src-dst attributes*

app-type-src-dst-list : [

{ *app-type-src-dst attributes* },

{ *app-type-src-dst attributes* },

...

]

app-type-src-dst attributes

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.126 ddos dst entry src-dst-pair-policy policy-class-list class-list-overflow-policy

Configure src dst dynamic entry count overflow policy for class-list

class-list-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dummy-name*
Collection Name	*class-list-overflow-policy-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy
Element Name	class-list-overflow-policy
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}
Element Attributes	class-list-overflow-policy_attributes
Partition Visibility	shared
Schema	`class-list-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

class-list-overflow-policy-list

class-list-overflow-policy-list is **JSON List** of *class-list-overflow-policy attributes*

```
class-list-overflow-policy-list : [
        { class-list-overflow-policy attributes },
        { class-list-overflow-policy attributes },
        ...
    ]
```

class-list-overflow-policy attributes

app-type-src-dst-overflow-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dummy-name

Description 'configuration': Configure src dst dynamic entry count overflow policy for class-list;

Type: string

Supported Values: configuration

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-src-dst-overflow-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

l4-type-src-dst-overflow-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *l4-type-src-dst-overflow-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-src-dst-overflow-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

app-type-src-dst-overflow-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description ‘dns’: dns; ‘http’: http; ‘ssl-l4’: ssl-l4; ‘sip’: sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *app-type-src-dst-overflow-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-src-dst-overflow-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.127 ddos dst entry src-dst-pair-policy policy-class-list class-list-overflow-policy app-type-src-dst-overflow

DDOS APP type

app-type-src-dst-overflow Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*app-type-src-dst-overflow-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow
Element Name	app-type-src-dst-overflow
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow/{protocol}
Element Attributes	app-type-src-dst-overflow_attributes
Partition Visibility	shared
Schema	`app-type-src-dst-overflow schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow

app-type-src-dst-overflow attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow

app-type-src-dst-overflow attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow/{protocol}

app-type-src-dst-overflow attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow

app-type-src-dst-overflow-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow/{protocol}

app-type-src-dst-overflow attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow/{protocol}

app-type-src-dst-overflow attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow

app-type-src-dst-overflow-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/app-type-src-dst-overflow/{protocol}

app-type-src-dst-overflow attributes

app-type-src-dst-overflow-list

app-type-src-dst-overflow-list is **JSON List** of *app-type-src-dst-overflow attributes*

app-type-src-dst-overflow-list : [

{ *app-type-src-dst-overflow attributes* },

{ *app-type-src-dst-overflow attributes* },

...

]

app-type-src-dst-overflow attributes

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.128 ddos dst entry src-dst-pair-policy policy-class-list class-list-overflow-policy l4-type-src-dst-overflow

DDOS L4 type

l4-type-src-dst-overflow Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-src-dst-overflow-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow
Element Name	l4-type-src-dst-overflow
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow/{protocol}
Element Attributes	l4-type-src-dst-overflow_attributes
Partition Visibility	shared
Schema	`l4-type-src-dst-overflow schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow

l4-type-src-dst-overflow attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow

l4-type-src-dst-overflow attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow/{protocol}

l4-type-src-dst-overflow attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow

l4-type-src-dst-overflow-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow/{protocol}

l4-type-src-dst-overflow attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow/{protocol}

l4-type-src-dst-overflow attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow

l4-type-src-dst-overflow-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}/l4-type-src-dst-overflow/{protocol}

l4-type-src-dst-overflow attributes

l4-type-src-dst-overflow-list

l4-type-src-dst-overflow-list is **JSON List** of *l4-type-src-dst-overflow attributes*

```
l4-type-src-dst-overflow-list : [
        { l4-type-src-dst-overflow attributes },
        { l4-type-src-dst-overflow attributes },
        ...
    ]
```

l4-type-src-dst-overflow attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.129 ddos dst entry src-dst-pair-policy policy-class-list l4-type-src-dst

DDOS L4 type

l4-type-src-dst Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-src-dst-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst
Element Name	l4-type-src-dst
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst/{protocol}
Element Attributes	l4-type-src-dst_attributes
Partition Visibility	shared
Schema	`l4-type-src-dst schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst

l4-type-src-dst attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst

l4-type-src-dst attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst

l4-type-src-dst-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst

l4-type-src-dst-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

l4-type-src-dst-list

l4-type-src-dst-list is **JSON List** of *l4-type-src-dst attributes*

l4-type-src-dst-list : [

{ *l4-type-src-dst attributes* },

{ *l4-type-src-dst attributes* },

...

]

l4-type-src-dst attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.130 ddos dst entry src-dst-pair-policy policy-class-list stats

Statistics for the object policy-class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats
Element Attributes	policy-class-list_attributes
Partition Visibility	None
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

entry_count_overflow

Description Entry Count Overflow

Type: number

Format: counter

entry_learned

Description Entry Learned

Type: number

Format: counter

packet_dropped

Description Packets Dropped

Type: number

Format: counter

packet_received

Description Packets Received

Type: number

Format: counter

2.33.131 ddos dst entry src-dst-pair-settings

Configure src-dst-pair settings

src-dst-pair-settings Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*all-types*
Collection Name	*src-dst-pair-settings-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings
Element Name	src-dst-pair-settings
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}
Element Attributes	src-dst-pair-settings_attributes
Partition Visibility	shared
Schema	`src-dst-pair-settings schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings

src-dst-pair-settings attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings

src-dst-pair-settings attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}

src-dst-pair-settings attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings

src-dst-pair-settings-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}

src-dst-pair-settings attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}

src-dst-pair-settings attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings

src-dst-pair-settings-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}

src-dst-pair-settings attributes

src-dst-pair-settings-list

src-dst-pair-settings-list is **JSON List** of *src-dst-pair-settings attributes*

src-dst-pair-settings-list : [

{ *src-dst-pair-settings attributes* },

{ *src-dst-pair-settings attributes* },

...

]

src-dst-pair-settings attributes

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

all-types

Description 'all-types': Settings for all types (default or class-list);

Type: string

Supported Values: all-types

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for DST entry or each class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

l4-type-src-dst-list

Type: List

Reference Object: */axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst/{protocol}*

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry

Type: number

Range: 0-2147483647

src-prefix-len

Description Specify src prefix length for IPv6 (default: not set)

Type: number

Range: 32-127

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-src-dst-list

Specification	Value
Type	*list*
Block object keys	

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry

Type: number

Range: 0-2147483647

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.132 ddos dst entry src-dst-pair-settings l4-type-src-dst

DDOS L4 type

l4-type-src-dst Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-src-dst-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst
Element Name	l4-type-src-dst
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst/{protocol}
Element Attributes	l4-type-src-dst_attributes
Partition Visibility	shared
Schema	`l4-type-src-dst schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst

l4-type-src-dst attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst

l4-type-src-dst attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst

l4-type-src-dst-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst

l4-type-src-dst-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-dst-pair-settings/{all-types}/l4-type-src-dst/{protocol}

l4-type-src-dst attributes

l4-type-src-dst-list

l4-type-src-dst-list is **JSON List** of *l4-type-src-dst attributes*

```
l4-type-src-dst-list : [
        { l4-type-src-dst attributes },
        { l4-type-src-dst attributes },
        ...
    ]
```

l4-type-src-dst attributes

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic src-dst entry

Type: number

Range: 0-2147483647

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.133 ddos dst entry src-port

DDOS Port & Protocol configuration

src-port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num, protocol*
Collection Name	*src-port-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port
Element Name	src-port
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}
Element Attributes	src-port_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}/stats
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}/oper
Schema	`src-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port

src-port attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port

src-port attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}

src-port attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port

src-port-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}

src-port attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}

src-port attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port

src-port-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}

src-port attributes

src-port-list

src-port-list is **JSON List** of *src-port attributes*

```
src-port-list : [
        { src-port attributes },
        { src-port attributes },
        ...
    ]
```

src-port attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

outbound-src-tracking

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-udp': DNS-UDP Port; 'dns-tcp': DNS-TCP Port; 'udp': UDP Port; 'tcp': TCP Port;

Type: string

Supported Values: dns-udp, dns-tcp, udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

src-dns

Description DDOS dns src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.134 ddos dst entry src-port oper

Operational Status for the object src-port

src-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*src-port-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}
Element Name	src-port
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}/oper
Element Attributes	src-port_attributes
Partition Visibility	None
Schema	`src-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}

src-port attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}

src-port attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}/oper

src-port attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}

src-port-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}/oper

src-port attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}/oper

src-port attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}

src-port-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port/{port-num}+{protocol}/oper

src-port attributes

src-port-list

src-port-list is **JSON List** of *src-port attributes*

src-port-list : [

{ *src-port attributes* },

{ *src-port attributes* },

…

]

src-port attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port-num

Description Port Number

Type: number

Range: 0-65535

protocol

Description 'dns-udp': DNS-UDP Port; 'dns-tcp': DNS-TCP Port; 'udp': UDP Port; 'tcp': TCP Port;

Type: string

Supported Values: dns-udp, dns-tcp, udp, tcp

oper

Specification	Value
Type	*object*

all-ip-protos

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

all-src-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: string

port-protocol

Description

Type: string

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sflow-source-id

Description

Type: boolean

Supported Values: true, false, 1, 0

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

2.33.135 ddos dst entry src-port-range

DDOS SRC Port Range & Protocol configuration

src-port-range Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*src-port-range-start, src-port-range-end, protocol*
Collection Name	*src-port-range-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range
Element Name	src-port-range
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}
Element Attributes	src-port-range_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/stats
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/oper
Schema	`src-port-range schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range

src-port-range attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range

src-port-range attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range

src-port-range-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range

src-port-range-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range attributes

src-port-range-list

src-port-range-list is **JSON List** of *src-port-range attributes*

src-port-range-list : [

{ *src-port-range attributes* },

{ *src-port-range attributes* },

...

]

src-port-range attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'udp': UDP Port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

src-port-range-end

Description Src Port-Range End Port Number

Type: number

Range: 2-65535

src-port-range-start

Description Src Port-Range Start Port Number

Type: number

Range: 1-65535

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.136 ddos dst entry src-port-range oper

Operational Status for the object src-port-range

src-port-range Specification

Parameter	Value
Type	*Collection*
Collection Name	*src-port-range-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}
Element Name	src-port-range
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/oper
Element Attributes	src-port-range_attributes
Partition Visibility	None
Schema	`src-port-range schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/oper

src-port-range attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/oper

src-port-range attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/oper

src-port-range attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/oper

src-port-range attributes

src-port-range-list

src-port-range-list is **JSON List** of *src-port-range attributes*

src-port-range-list : [

{ *src-port-range attributes* },

{ *src-port-range attributes* },

...

]

src-port-range attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

protocol

Description 'udp': UDP Port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

src-port-range-end

Description Src Port-Range End Port Number

Type: number

Range: 2-65535

src-port-range-start

Description Src Port-Range Start Port Number

Type: number

Range: 1-65535

oper

Specification	Value
Type	*object*

all-ip-protos

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

all-src-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: string

port-protocol

Description

Type: string

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sflow-source-id

Description

Type: boolean

Supported Values: true, false, 1, 0

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

2.33.137 ddos dst entry stats

Statistics for the object entry

entry Specification

Parameter	Value
Type	*Collection*
Collection Name	*entry-list*
Collection URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}
Element Name	entry
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/stats
Element Attributes	entry_attributes
Partition Visibility	None
Schema	`entry schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}

entry attributes

Create List

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}

entry attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/stats

entry attributes

Get List

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}

entry-list

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/stats

entry attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/stats

entry attributes

Replace List

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}

entry-list

Delete Object

DELETE

/axapi/v3/ddos/dst/entry/{dst-entry-name}/stats

entry attributes

entry-list

entry-list is **JSON List** of *entry attributes*

entry-list : [

{ *entry attributes* },

{ *entry attributes* },

...

]

entry attributes

dst-entry-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dns_outbound_query_malformed

Description DNS Outbound Query Malformed

Type: number

Format: counter

dns_outbound_query_resp_chk_blacklisted

Description DNS Outbound Query Resp Check Blacklisted

Type: number

Format: counter

dns_outbound_query_resp_chk_failed

Description DNS Outbound Query Resp Check Failed

Type: number

Format: counter

dns_outbound_query_resp_chk_no_resp_sent

Description DNS Outbound Query Resp Check No Response Sent

Type: number

Format: counter

dns_outbound_query_resp_chk_refused_sent

Description DNS Outbound Query Resp Check REFUSED Sent

Type: number

Format: counter

dns_outbound_query_resp_chk_reset_sent

Description DNS Outbound Query Resp Check RESET Sent

Type: number

Format: counter

dns_outbound_query_resp_size_exceed

Description DNS Outbound Query Response Size Exceed

Type: number

Format: counter

dns_outbound_query_sess_timed_out

Description DNS Outbound Query Session Timed Out

Type: number

Format: counter

dns_outbound_total_query

Description DNS Outbound Total Query

Type: number

Format: counter

dst_blackhole_inject

Description Dst Blackhole Inject

Type: number

Format: counter

dst_blackhole_withdraw

Description Dst Blackhole Withdraw

Type: number

Format: counter

dst_clist_overflow_policy_at_learning

Description Dst Src-Based Overflow Policy Hit

Type: number

Format: counter

dst_entry_conn_limit_exceed

Description Entry Limit: Conn Exceeded

Type: number

Format: counter

dst_entry_conn_rate_exceed

Description Entry Rate: Conn Exceeded

Type: number

Format: counter

dst_entry_frag_pkt_rate_exceed

Description Entry Rate: Frag Packet Exceeded

Type: number

Format: counter

dst_entry_kbit_rate_exceed

Description Entry Rate: KiBit Exceeded

Type: number

Format: counter

dst_entry_kbit_rate_exceed_count

Description Entry Rate: KiBit Exceeded Count

Type: number

Format: counter

dst_entry_pkt_rate_exceed

Description Entry Rate: Packet Exceeded

Type: number

Format: counter

dst_exceed_action_drop

Description Entry Exceed Action: Dropped

Type: number

Format: counter

dst_exceed_action_tunnel

Description Entry Exceed Action: Tunnel

Type: number

Format: counter

dst_frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

dst_frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

dst_hw_drop_rule_insert

Description Dst Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_rule_remove

Description Dst Hardware Drop Rules Removed

Type: number

Format: counter

dst_icmp_any_exceed

Description ICMP Rate: Total Exceed

Type: number

Format: counter

dst_icmp_bytes_drop

Description ICMP Total Bytes Dropped

Type: number

Format: counter

dst_icmp_bytes_rcv

Description ICMP Total Bytes Received

Type: number

Format: counter

dst_icmp_bytes_sent

Description ICMP Total Bytes Forwarded

Type: number

Format: counter

dst_icmp_drop

Description ICMP Total Packets Dropped

Type: number

Format: counter

dst_icmp_frag_pkt_rate_exceed

Description ICMP Dst L4-Type Rate: Frag Exceeded

Type: number

Format: counter

dst_icmp_frag_src_rate_drop

Description ICMP Src Rate: Frag Exceeded

Type: number

Format: counter

dst_icmp_kibit_rate_drop

Description ICMP Dst Rate: KiBit Exceeded

Type: number

Format: counter

dst_icmp_pkt_rate_exceed

Description ICMP Dst Rate: Packet Exceeded

Type: number

Format: counter

dst_icmp_pkt_rcvd

Description ICMP Total Packets Received

Type: number

Format: counter

dst_icmp_pkt_sent

Description ICMP Total Packets Forwarded

Type: number

Format: counter

dst_icmp_src_drop

Description ICMP Src Packets Dropped

Type: number

Format: counter

dst_icmp_src_rate_drop

Description ICMP Src Rate: Total Exceeded

Type: number

Format: counter

dst_ip_proto_kbit_rate_exceed

Description IP-Proto Rate: KiBit Exceeded

Type: number

Format: counter

dst_ip_proto_pkt_rate_exceed

Description IP-Proto Rate: Packet Exceeded

Type: number

Format: counter

dst_l4_icmp_blacklist_drop

Description Dst L4-type ICMP Blacklist Dropped

Type: number

Format: counter

dst_l4_other_blacklist_drop

Description Dst L4-type OTHER Blacklist Dropped

Type: number

Format: counter

dst_l4_tcp_auth

Description TCP Dst L4-Type Auth: SYN Cookie Sent

Type: number

Format: counter

dst_l4_tcp_blacklist_drop

Description Dst L4-type TCP Blacklist Dropped

Type: number

Format: counter

dst_l4_udp_blacklist_drop

Description Dst L4-type UDP Blacklist Dropped

Type: number

Format: counter

dst_other_any_exceed

Description OTHER Rate: Total Exceed

Type: number

Format: counter

dst_other_bytes_drop

Description OTHER Total Bytes Dropped

Type: number

Format: counter

dst_other_bytes_rcv

Description OTHER Total Bytes Received

Type: number

Format: counter

dst_other_bytes_sent

Description OTHER Total Bytes Forwarded

Type: number

Format: counter

dst_other_drop

Description OTHER Total Packets Dropped

Type: number

Format: counter

dst_other_filter_action_blacklist

Description OTHER Filter Action Blacklist

Type: number

Format: counter

dst_other_filter_action_default_pass

Description OTHER Filter Action Default Pass

Type: number

Format: counter

dst_other_filter_action_drop

Description OTHER Filter Action Drop

Type: number

Format: counter

dst_other_filter_action_whitelist

Description OTHER Filter Action WL

Type: number

Format: counter

dst_other_filter_match

Description OTHER Filter Match

Type: number

Format: counter

dst_other_filter_not_match

Description OTHER Filter Not Matched on Pkt

Type: number

Format: counter

dst_other_frag_pkt_rate_exceed

Description OTHER Dst L4-Type Rate: Frag Exceeded

Type: number

Format: counter

dst_other_frag_src_rate_drop

Description OTHER Src Rate: Frag Exceeded

Type: number

Format: counter

dst_other_kibit_rate_drop

Description OTHER Dst L4-Type Rate: KiBit Exceeded

Type: number

Format: counter

dst_other_pkt_rate_exceed

Description OTHER Dst L4-Type Rate: Packet Exceeded

Type: number

Format: counter

dst_other_pkt_rcvd

Description OTHER Total Packets Received

Type: number

Format: counter

dst_other_pkt_sent

Description OTHER Total Packets Forwarded

Type: number

Format: counter

dst_other_src_drop

Description OTHER Src Packets Dropped

Type: number

Format: counter

dst_other_src_rate_drop

Description OTHER Src Rate: Total Exceeded

Type: number

Format: counter

dst_out_no_route

Description Dst IPv4/v6 Out No Route

Type: number

Format: counter

dst_pkt_sent

Description Inbound: Packets Forwarded

Type: number

Format: counter

dst_port_bl

Description Dst Port Blacklist Packets Dropped

Type: number

Format: counter

dst_port_conn_limit_exceed

Description Port Limit: Conn Exceeded

Type: number

Format: counter

dst_port_conn_rate_exceed

Description Port Rate: Conn Exceeded

Type: number

Format: counter

dst_port_kbit_rate_exceed

Description Port Rate: KiBit Exceeded

Type: number

Format: counter

dst_port_kbit_rate_exceed_pkt

Description Port Rate: KiBit Pkt Exceeded

Type: number

Format: counter

dst_port_pkt_rate_exceed

Description Port Rate: Packet Exceeded

Type: number

Format: counter

dst_port_undef_drop

Description Dst Port Undefined Dropped

Type: number

Format: counter

dst_port_undef_hit

Description Dst Port Undefined Hit

Type: number

Format: counter

dst_src_learn_overflow

Description Src Dynamic Entry Count Overflow

Type: number

Format: counter

dst_src_port_bl

Description Dst SrcPort Blacklist Packets Dropped

Type: number

Format: counter

dst_src_port_conn_limit_exceed

Description SrcPort Limit: Conn Exceeded

Type: number

Format: counter

dst_src_port_conn_rate_exceed

Description SrcPort Rate: Conn Exceeded

Type: number

Format: counter

dst_src_port_kbit_rate_exceed

Description SrcPort Rate: KiBit Exceeded

Type: number

Format: counter

dst_src_port_pkt_rate_exceed

Description SrcPort Rate: Packet Exceeded

Type: number

Format: counter

dst_tcp_action_on_ack_blacklist

Description TCP Auth: ACK Retry Timeout Blacklisted

Type: number

Format: counter

dst_tcp_action_on_ack_fail

Description TCP Auth: ACK Retry Dropped

Type: number

Format: counter

dst_tcp_action_on_ack_gap_drop

Description TCP Auth: ACK Retry Retry-Gap Dropped

Type: number

Format: counter

dst_tcp_action_on_ack_init

Description TCP Auth: ACK Retry Init

Type: number

Format: counter

dst_tcp_action_on_ack_pass

Description TCP Auth: ACK Retry Passed

Type: number

Format: counter

dst_tcp_action_on_ack_reset

Description TCP Auth: ACK Retry Timeout Reset

Type: number

Format: counter

dst_tcp_action_on_ack_timeout

Description TCP Auth: ACK Retry Timeout

Type: number

Format: counter

dst_tcp_action_on_syn_blacklist

Description TCP Auth: SYN Retry Timeout Blacklisted

Type: number

Format: counter

dst_tcp_action_on_syn_fail

Description TCP Auth: SYN Retry Dropped

Type: number

Format: counter

dst_tcp_action_on_syn_gap_drop

Description TCP Auth: SYN Retry-Gap Dropped

Type: number

Format: counter

dst_tcp_action_on_syn_init

Description TCP Auth: SYN Retry Init

Type: number

Format: counter

dst_tcp_action_on_syn_pass

Description TCP Auth: SYN Retry Passed

Type: number

Format: counter

dst_tcp_action_on_syn_reset

Description TCP Auth: SYN Retry Timeout Reset

Type: number

Format: counter

dst_tcp_action_on_syn_timeout

Description TCP Auth: SYN Retry Timeout

Type: number

Format: counter

dst_tcp_any_exceed

Description TCP Dst L4-Type Rate: Total Exceeded

Type: number

Format: counter

dst_tcp_auth

Description TCP Auth: SYN Cookie Sent

Type: number

Format: counter

dst_tcp_auth_drop

Description TCP Auth: Dropped

Type: number

Format: counter

dst_tcp_auth_pass

Description TCP Auth: SYN Auth Passed

Type: number

Format: counter

dst_tcp_auth_resp

Description TCP Auth: Responded

Type: number

Format: counter

dst_tcp_auth_rst

Description TCP Auth: Reset

Type: number

Format: counter

dst_tcp_bytes_drop

Description TCP Total Bytes Dropped

Type: number

Format: counter

dst_tcp_bytes_rcv

Description TCP Total Bytes Received

Type: number

Format: counter

dst_tcp_bytes_sent

Description TCP Total Bytes Forwarded

Type: number

Format: counter

dst_tcp_conn_close

Description TCP Connections Closed

Type: number

Format: counter

dst_tcp_conn_close_half_open

Description TCP Half Open Connections Closed

Type: number

Format: counter

dst_tcp_conn_close_w_fin

Description TCP FIN Connections Closed

Type: number

Format: counter

dst_tcp_conn_close_w_idle

Description TCP Idle Connections Closed

Type: number

Format: counter

dst_tcp_conn_close_w_rst

Description TCP RST Connections Closed

Type: number

Format: counter

dst_tcp_conn_create_from_ack

Description TCP Connections Created From ACK

Type: number

Format: counter

dst_tcp_conn_create_from_syn

Description TCP Connections Created From SYN

Type: number

Format: counter

dst_tcp_conn_limit_exceed

Description TCP Dst L4-Type Limit: Conn Exceeded

Type: number

Format: counter

dst_tcp_conn_prate_excd

Description TCP Rate: Conn Pkt Exceeded

Type: number

Format: counter

dst_tcp_conn_rate_exceed

Description TCP Dst L4-Type Rate: Conn Exceeded

Type: number

Format: counter

dst_tcp_drop

Description TCP Total Packets Dropped

Type: number

Format: counter

dst_tcp_filter_action_blacklist

Description TCP Filter Action Blacklist

Type: number

Format: counter

dst_tcp_filter_action_default_pass

Description TCP Filter Action Default Pass

Type: number

Format: counter

dst_tcp_filter_action_drop

Description TCP Filter Action Drop

Type: number

Format: counter

dst_tcp_filter_action_whitelist

Description TCP Filter Action WL

Type: number

Format: counter

dst_tcp_filter_match

Description TCP Filter Match

Type: number

Format: counter

dst_tcp_filter_not_match

Description TCP Filter Not Matched on Pkt

Type: number

Format: counter

dst_tcp_frag_pkt_rate_exceed

Description TCP Dst L4-Type Rate: Frag Exceeded

Type: number

Format: counter

dst_tcp_frag_src_rate_drop

Description TCP Src Rate: Frag Exceeded

Type: number

Format: counter

dst_tcp_kibit_rate_drop

Description TCP Dst L4-Type Rate: KiBit Exceeded

Type: number

Format: counter

dst_tcp_out_of_seq_excd

Description TCP Out-Of-Seq Exceeded

Type: number

Format: counter

dst_tcp_pkt_rate_exceed

Description TCP Dst L4-Type Rate: Packet Exceeded

Type: number

Format: counter

dst_tcp_pkt_rcvd

Description TCP Total Packets Received

Type: number

Format: counter

dst_tcp_pkt_sent

Description TCP Total Packets Forwarded

Type: number

Format: counter

dst_tcp_port_any_exceed

Description TCP Port Rate: Total Exceed

Type: number

Format: counter

dst_tcp_retransmit_excd

Description TCP Retransmit Exceeded

Type: number

Format: counter

dst_tcp_rst_cookie_fail

Description TCP Auth: RST Cookie Failed

Type: number

Format: counter

dst_tcp_session_aged

Description TCP Sessions Aged

Type: number

Format: counter

dst_tcp_session_created

Description TCP Sessions Created

Type: number

Format: counter

dst_tcp_src_drop

Description TCP Src Packets Dropped

Type: number

Format: counter

dst_tcp_src_rate_drop

Description TCP Src Rate: Total Exceeded

Type: number

Format: counter

dst_tcp_syn

Description TCP Total SYN Received

Type: number

Format: counter

dst_tcp_syn_drop

Description TCP SYN Packets Dropped

Type: number

Format: counter

dst_tcp_unauth_drop

Description TCP Auth: Unauth Dropped

Type: number

Format: counter

dst_tcp_wellknown_sport_drop

Description TCP SrcPort Wellknown

Type: number

Format: counter

dst_tcp_zero_window_excd

Description TCP Zero-Window Exceeded

Type: number

Format: counter

dst_udp_any_exceed

Description UDP Dst L4-Type Rate: Total Exceeded

Type: number

Format: counter

dst_udp_auth_drop

Description UDP Auth: Dropped

Type: number

Format: counter

dst_udp_bytes_drop

Description UDP Total Bytes Dropped

Type: number

Format: counter

dst_udp_bytes_rcv

Description UDP Total Bytes Received

Type: number

Format: counter

dst_udp_bytes_sent

Description UDP Total Bytes Forwarded

Type: number

Format: counter

dst_udp_conn_limit_exceed

Description UDP Dst L4-Type Limit: Conn Exceeded

Type: number

Format: counter

dst_udp_conn_prate_excd

Description UDP Rate: Conn Pkt Exceeded

Type: number

Format: counter

dst_udp_conn_rate_exceed

Description UDP Dst L4-Type Rate: Conn Exceeded

Type: number

Format: counter

dst_udp_drop

Description UDP Total Packets Dropped

Type: number

Format: counter

dst_udp_filter_action_blacklist

Description UDP Filter Action Blacklist

Type: number

Format: counter

dst_udp_filter_action_default_pass

Description UDP Filter Action Default Pass

Type: number

Format: counter

dst_udp_filter_action_drop

Description UDP Filter Action Drop

Type: number

Format: counter

dst_udp_filter_action_whitelist

Description UDP Filter Action WL

Type: number

Format: counter

dst_udp_filter_match

Description UDP Filter Match

Type: number

Format: counter

dst_udp_filter_not_match

Description UDP Filter Not Matched on Pkt

Type: number

Format: counter

dst_udp_frag_pkt_rate_exceed

Description UDP Dst L4-Type Rate: Frag Exceeded

Type: number

Format: counter

dst_udp_frag_src_rate_drop

Description UDP Src Rate: Frag Exceeded

Type: number

Format: counter

dst_udp_kibit_rate_drop

Description UDP Dst L4-Type Rate: KiBit Exceeded

Type: number

Format: counter

dst_udp_ntp_monlist_req

Description UDP NTP Monlist Request

Type: number

Format: counter

dst_udp_ntp_monlist_resp

Description UDP NTP Monlist Response

Type: number

Format: counter

dst_udp_pkt_rate_exceed

Description UDP Dst L4-Type Rate: Packet Exceeded

Type: number

Format: counter

dst_udp_pkt_rcvd

Description UDP Total Packets Received

Type: number

Format: counter

dst_udp_pkt_sent

Description UDP Total Packets Forwarded

Type: number

Format: counter

dst_udp_port_any_exceed

Description UDP Port Rate: Total Exceed

Type: number

Format: counter

dst_udp_retry_fail

Description UDP Auth: Retry Timeout

Type: number

Format: counter

dst_udp_retry_gap_drop

Description UDP Auth: Retry-Gap Dropped

Type: number

Format: counter

dst_udp_retry_init

Description UDP Auth: Retry Init

Type: number

Format: counter

dst_udp_retry_pass

Description UDP Auth: Retry Passed

Type: number

Format: counter

dst_udp_session_aged

Description UDP Sessions Aged

Type: number

Format: counter

dst_udp_session_created

Description UDP Sessions Created

Type: number

Format: counter

dst_udp_src_drop

Description UDP Src Packets Dropped

Type: number

Format: counter

dst_udp_src_rate_drop

Description UDP Src Rate: Total Exceeded

Type: number

Format: counter

dst_udp_wellknown_sport_drop

Description UDP SrcPort Wellknown

Type: number

Format: counter

egress_bytes

Description Outbound: Bytes Received

Type: number

Format: counter

egress_packets

Description Outbound: Packets Received

Type: number

Format: counter

entry_sync_message_received

Description Entry Sync Message Received

Type: number

Format: counter

entry_sync_message_sent

Description Entry Sync Message Sent

Type: number

Format: counter

icmp_fwd_recv

Description ICMP Inbound Packets Received

Type: number

Format: counter

inbound_bytes_drop

Description Inbound: Bytes Dropped

Type: number

Format: counter

inbound_bytes_sent

Description Inbound: Bytes Forwarded

Type: number

Format: counter

inbound_pkt_drop

Description Inbound: Packets Dropped

Type: number

Format: counter

ingress_bytes

Description Inbound: Bytes Received

Type: number

Format: counter

ingress_packets

Description Inbound: Packets Received

Type: number

Format: counter

no_policy_class_list_match

Description No Policy Class-list Match

Type: number

Format: counter

outbound_bytes_drop

Description Outbound: Bytes Dropped

Type: number

Format: counter

outbound_bytes_sent

Description Outbound: Bytes Forwarded

Type: number

Format: counter

outbound_pkt_drop

Description Outbound: Packets Dropped

Type: number

Format: counter

outbound_pkt_sent

Description Outbound: Packets Forwarded

Type: number

Format: counter

prog_conn_exceed_bl

Description Connection: Violation Exceed Blacklisted

Type: number

Format: counter

prog_conn_exceed_drop

Description Connection: Violation Exceed Dropped

Type: number

Format: counter

prog_conn_rcvd_exceed

Description Connection: Received Exceed

Type: number

Format: counter

prog_conn_rcvd_sent_ratio_exceed

Description Connection: Reveived to Sent Ratio Exceed

Type: number

Format: counter

prog_conn_samples

Description Sample Collected: Connection

Type: number

Format: counter

prog_conn_samples_processed

Description Sample Processed: Connnection

Type: number

Format: counter

prog_conn_sent_exceed

Description Connection: Sent Exceed

Type: number

Format: counter

prog_conn_time_exceed

Description Connection: Time Exceed

Type: number

Format: counter

prog_exceed_bl

Description Req-Resp: Violation Exceed Blacklisted

Type: number

Format: counter

prog_exceed_drop

Description Req-Resp: Violation Exceed Dropped

Type: number

Format: counter

prog_first_req_time_exceed

Description Req-Resp: First Request Time Exceed

Type: number

Format: counter

prog_query_exceed

Description Req-Resp: Client Query Time Exceed

Type: number

Format: counter

prog_req_resp_time_exceed

Description Req-Resp: Request to Response Time Exceed

Type: number

Format: counter

prog_req_samples

Description Sample Collected: Req-Resp

Type: number

Format: counter

prog_req_samples_processed

Description Sample Processed: Req-Resp

Type: number

Format: counter

prog_request_len_exceed

Description Req-Resp: Request Length Exceed

Type: number

Format: counter

prog_resp_pkt_rate_exceed

Description Req-Resp: Response Packet Rate Exceed

Type: number

Format: counter

prog_resp_req_time_exceed

Description Req-Resp: Response to Request Time Exceed

Type: number

Format: counter

prog_response_len_exceed

Description Req-Resp: Response Length Exceed

Type: number

Format: counter

prog_think_exceed

Description Req-Resp: Server Think Time Exceed

Type: number

Format: counter

prog_win_exceed_bl

Description Time Window: Violation Exceed Blacklisted

Type: number

Format: counter

prog_win_exceed_drop

Description Time Window: Violation Exceed Dropped

Type: number

Format: counter

prog_win_rcvd_exceed

Description Time Window: Received Exceed

Type: number

Format: counter

prog_win_rcvd_sent_ratio_exceed

Description Time Window: Received to Sent Exceed

Type: number

Format: counter

prog_win_samples

Description Sample Collected: Time Window

Type: number

Format: counter

prog_win_samples_processed

Description Sample Processed: Time Window

Type: number

Format: counter

prog_win_sent_exceed

Description Time Window: Sent Exceed

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

src_dst_pair_entry_icmp

Description Src-Dst Pair Entry ICMP Count

Type: number

Format: counter

src_dst_pair_entry_other

Description Src-Dst Pair Entry OTHER Count

Type: number

Format: counter

src_dst_pair_entry_tcp

Description Src-Dst Pair Entry TCP Count

Type: number

Format: counter

src_dst_pair_entry_total

Description Src-Dst Pair Entry Total Count

Type: number

Format: counter

src_dst_pair_entry_udp

Description Src-Dst Pair Entry UDP Count

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_hw_drop_rule_insert

Description Src Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_rule_remove

Description Src Hardware Drop Rules Removed

Type: number

Format: counter

src_l4_icmp_blacklist_drop

Description Src L4-type ICMP Blacklist Dropped

Type: number

Format: counter

src_l4_other_blacklist_drop

Description Src L4-type OTHER Blacklist Dropped

Type: number

Format: counter

src_l4_tcp_blacklist_drop

Description Src L4-type TCP Blacklist Dropped

Type: number

Format: counter

src_l4_udp_blacklist_drop

Description Src L4-type UDP Blacklist Dropped

Type: number

Format: counter

src_other_filter_action_blacklist

Description Src OTHER Filter Action Blacklist

Type: number

Format: counter

src_other_filter_action_default_pass

Description Src OTHER Filter Action Default Pass

Type: number

Format: counter

src_other_filter_action_drop

Description Src OTHER Filter Action Drop

Type: number

Format: counter

src_other_filter_action_whitelist

Description Src OTHER Filter Action WL

Type: number

Format: counter

src_tcp_action_on_ack_blacklist

Description Src TCP Auth: ACK Retry Timeout Blacklisted

Type: number

Format: counter

src_tcp_action_on_ack_fail

Description Src TCP Auth: ACK Retry Dropped

Type: number

Format: counter

src_tcp_action_on_ack_gap_drop

Description Src TCP Auth: ACK Retry Retry-Gap Dropped

Type: number

Format: counter

src_tcp_action_on_ack_init

Description Src TCP Auth: ACK Retry Init

Type: number

Format: counter

src_tcp_action_on_ack_reset

Description Src TCP Auth: ACK Retry Timeout Reset

Type: number

Format: counter

src_tcp_action_on_ack_timeout

Description Src TCP Auth: ACK Retry Timeout

Type: number

Format: counter

src_tcp_action_on_syn_blacklist

Description Src TCP Auth: SYN Retry Timeout Blacklisted

Type: number

Format: counter

src_tcp_action_on_syn_fail

Description Src TCP Auth: SYN Retry Dropped

Type: number

Format: counter

src_tcp_action_on_syn_gap_drop

Description Src TCP Auth: SYN Retry-Gap Dropped

Type: number

Format: counter

src_tcp_action_on_syn_init

Description Src TCP Auth: SYN Retry Init

Type: number

Format: counter

src_tcp_action_on_syn_reset

Description Src TCP Auth: SYN Retry Timeout Reset

Type: number

Format: counter

src_tcp_action_on_syn_timeout

Description Src TCP Auth: SYN Retry Timeout

Type: number

Format: counter

src_tcp_conn_prate_excd

Description Src TCP Rate: Conn Pkt Exceeded

Type: number

Format: counter

src_tcp_filter_action_blacklist

Description Src TCP Filter Action Blacklist

Type: number

Format: counter

src_tcp_filter_action_default_pass

Description Src TCP Filter Action Default Pass

Type: number

Format: counter

src_tcp_filter_action_drop

Description Src TCP Filter Action Drop

Type: number

Format: counter

src_tcp_filter_action_whitelist

Description Src TCP Filter Action WL

Type: number

Format: counter

src_tcp_out_of_seq_excd

Description Src TCP Out-Of-Seq Exceeded

Type: number

Format: counter

src_tcp_retransmit_excd

Description Src TCP Retransmit Exceeded

Type: number

Format: counter

src_tcp_rst_cookie_fail

Description Src TCP Auth: RST Cookie Failed

Type: number

Format: counter

src_tcp_syn_auth_fail

Description Src TCP Auth: SYN Auth Failed

Type: number

Format: counter

src_tcp_syn_cookie_fail

Description Src TCP Auth: SYN Cookie Failed

Type: number

Format: counter

src_tcp_syn_cookie_sent

Description Src TCP Auth: SYN Cookie Sent

Type: number

Format: counter

src_tcp_unauth_drop

Description Src TCP Auth: Unauth Dropped

Type: number

Format: counter

src_tcp_wellknown_sport_drop

Description Src TCP SrcPort Wellknown

Type: number

Format: counter

src_tcp_zero_window_excd

Description Src TCP Zero-Window Exceeded

Type: number

Format: counter

src_udp_auth_timeout

Description Src UDP Auth: Retry Timeout

Type: number

Format: counter

src_udp_conn_prate_excd

Description Src UDP Rate: Conn Pkt Exceeded

Type: number

Format: counter

src_udp_filter_action_blacklist

Description Src UDP Filter Action Blacklist

Type: number

Format: counter

src_udp_filter_action_default_pass

Description Src UDP Filter Action Default Pass

Type: number

Format: counter

src_udp_filter_action_drop

Description Src UDP Filter Action Drop

Type: number

Format: counter

src_udp_filter_action_whitelist

Description Src UDP Filter Action WL

Type: number

Format: counter

src_udp_max_payload

Description Src UDP Payload Too Large

Type: number

Format: counter

src_udp_min_payload

Description Src UDP Payload Too Small

Type: number

Format: counter

src_udp_ntp_monlist_req

Description Src UDP NTP Monlist Request

Type: number

Format: counter

src_udp_ntp_monlist_resp

Description Src UDP NTP Monlist Response

Type: number

Format: counter

src_udp_retry_gap_drop

Description Src UDP Auth: Retry-Gap Dropped

Type: number

Format: counter

src_udp_retry_init

Description Src UDP Auth: Retry Init

Type: number

Format: counter

src_udp_retry_pass

Description Src UDP Retry Passed

Type: number

Format: counter

src_udp_wellknown_sport_drop

Description Src UDP SrcPort Wellknown

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_fwd_recv

Description TCP Inbound Packets Received

Type: number

Format: counter

tcp_fwd_sent

Description TCP Inbound Packets Forwarded

Type: number

Format: counter

tcp_invalid_syn

Description TCP Invalid SYN Received

Type: number

Format: counter

tcp_invalid_synack

Description TCP Invalid SYNACK Received

Type: number

Format: counter

tcp_l4_rst_cookie_fail

Description TCP Dst L4-Type Auth: RST Cookie Failed

Type: number

Format: counter

tcp_l4_syn_cookie_fail

Description TCP Dst L4-Type Auth: SYN Cookie Failed

Type: number

Format: counter

tcp_l4_unauth_drop

Description TCP Dst L4-Type Auth: Unauth Dropped

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP SYN Retransmit Exceeded Blacklist

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP SYN Retransmit Exceeded Drop

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_cookie_fail

Description TCP Auth: SYN Cookie Failed

Type: number

Format: counter

tcp_syn_rcvd

Description TCP Inbound SYN Received

Type: number

Format: counter

udp_fwd_recv

Description UDP Inbound Packets Received

Type: number

Format: counter

udp_fwd_sent

Description UDP Inbound Packets Forwarded

Type: number

Format: counter

udp_payload_too_big

Description UDP Payload Too Large

Type: number

Format: counter

udp_payload_too_small

Description UDP Payload Too Small

Type: number

Format: counter

2.33.138 ddos dst entry topk-destinations

DDos dst entry top destination IPs

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations
Element Attributes	topk-destinations_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/oper
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations

topk-destinations attributes

topk-destinations attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.139 ddos dst entry topk-destinations oper

Operational Status for the object topk-destinations

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/oper
Element Attributes	topk-destinations_attributes
Partition Visibility	None
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/oper

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/oper

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/oper

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/entry/{dst-entry-name}/topk-destinations/oper

topk-destinations attributes

topk-destinations attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.140 ddos dst interface-ip

Configure protections on local interface IPs

interface-ip Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*addr*
Collection Name	*interface-ip-list*
Collection URI	/axapi/v3/ddos/dst/interface-ip
Element Name	interface-ip
Element URI	/axapi/v3/ddos/dst/interface-ip/{addr}
Element Attributes	interface-ip_attributes
Partition Visibility	shared
Schema	`interface-ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/interface-ip

interface-ip attributes

```
POST /axapi/v3/ddos/dst/interface-ip/
Payload:
{
    "interface-ip": {
        "addr": "3.3.3.3",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/dst/interface-ip

interface-ip attributes

Get Object

GET

/axapi/v3/ddos/dst/interface-ip/{addr}

interface-ip attributes

```
GET /axapi/v3/ddos/dst/interface-ip/3.3.3.3
Reponse:
{
    "interface-ip": {
        "addr": "3.3.3.3",
        "log-enable": 0,
        "log-periodic": 0,
        "uuid": "4f01cd2a-0863-11f0-bc03-3dc8e3bd18dc",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/dst/interface-ip/3.3.3.3"
    }
}
```

Get List

GET

/axapi/v3/ddos/dst/interface-ip

interface-ip-list

Modify Object

POST

/axapi/v3/ddos/dst/interface-ip/{addr}

interface-ip attributes

Replace Object

PUT

/axapi/v3/ddos/dst/interface-ip/{addr}

interface-ip attributes

```
PUT /axapi/v3/ddos/dst/interface-ip/3.3.3.3
Payload:
{
    "interface-ip": {
        "addr": "3.3.3.3",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/dst/interface-ip

interface-ip-list

Delete Object

DELETE

/axapi/v3/ddos/dst/interface-ip/{addr}

interface-ip attributes

```
DELETE /axapi/v3/ddos/dst/interface-ip/3.3.3.3
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

interface-ip-list

interface-ip-list is **JSON List** of *interface-ip attributes*

interface-ip-list : [

{ *interface-ip attributes* },

{ *interface-ip attributes* },

...

]

interface-ip attributes

addr

Description IP address of interface

Type: string

Format: ipv4-address

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ip/{addr}/ip-proto/{port-num}*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ip/{addr}/l4-type/{protocol}*

log-enable

Description Enable logging of limit exceed drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ip/{addr}/port/{port-num}+{protocol}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'tcp': tcp; 'udp': udp; 'http-probe': http port for interface health check;

Type: string

Supported Values: tcp, udp, http-probe

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description IP protocol number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *l4-type-list_tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.141 ddos dst interface-ip ip-proto

Configure L4 on local interface IPs

ip-proto Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num*
Collection Name	*ip-proto-list*
Collection URI	/axapi/v3/ddos/dst/interface-ip/{addr}/ip-proto
Element Name	ip-proto
Element URI	/axapi/v3/ddos/dst/interface-ip/{addr}/ip-proto/{port-num}
Element Attributes	ip-proto_attributes
Partition Visibility	shared
Schema	`ip-proto schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/interface-ip/{addr}/ip-proto

ip-proto attributes

Create List

POST

/axapi/v3/ddos/dst/interface-ip/{addr}/ip-proto

ip-proto attributes

Get Object

GET

/axapi/v3/ddos/dst/interface-ip/{addr}/ip-proto/{port-num}

ip-proto attributes

Get List

GET

/axapi/v3/ddos/dst/interface-ip/{addr}/ip-proto

ip-proto-list

Modify Object

POST

/axapi/v3/ddos/dst/interface-ip/{addr}/ip-proto/{port-num}

ip-proto attributes

Replace Object

PUT

/axapi/v3/ddos/dst/interface-ip/{addr}/ip-proto/{port-num}

ip-proto attributes

Replace List

PUT

/axapi/v3/ddos/dst/interface-ip/{addr}/ip-proto

ip-proto-list

Delete Object

DELETE

/axapi/v3/ddos/dst/interface-ip/{addr}/ip-proto/{port-num}

ip-proto attributes

ip-proto-list

ip-proto-list is **JSON List** of *ip-proto attributes*

```
ip-proto-list : [
        { ip-proto attributes },
        { ip-proto attributes },
        ...
    ]
```

ip-proto attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description IP protocol number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.142 ddos dst interface-ip l4-type

Configure L4 on local interface IPs

l4-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-list*
Collection URI	/axapi/v3/ddos/dst/interface-ip/{addr}/l4-type
Element Name	l4-type
Element URI	/axapi/v3/ddos/dst/interface-ip/{addr}/l4-type/{protocol}
Element Attributes	l4-type_attributes
Partition Visibility	shared
Schema	`l4-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/interface-ip/{addr}/l4-type

l4-type attributes

Create List

POST

/axapi/v3/ddos/dst/interface-ip/{addr}/l4-type

l4-type attributes

Get Object

GET

/axapi/v3/ddos/dst/interface-ip/{addr}/l4-type/{protocol}

l4-type attributes

Get List

GET

/axapi/v3/ddos/dst/interface-ip/{addr}/l4-type

l4-type-list

Modify Object

POST

/axapi/v3/ddos/dst/interface-ip/{addr}/l4-type/{protocol}

l4-type attributes

Replace Object

PUT

/axapi/v3/ddos/dst/interface-ip/{addr}/l4-type/{protocol}

l4-type attributes

Replace List

PUT

/axapi/v3/ddos/dst/interface-ip/{addr}/l4-type

l4-type-list

Delete Object

DELETE

/axapi/v3/ddos/dst/interface-ip/{addr}/l4-type/{protocol}

l4-type attributes

l4-type-list

l4-type-list is **JSON List** of *l4-type attributes*

```
l4-type-list : [
        { l4-type attributes },
        { l4-type attributes },
        ...
    ]
```

l4-type attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.143 ddos dst interface-ip port

Configure port for local interface IPs

port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num, protocol*
Collection Name	*port-list*
Collection URI	/axapi/v3/ddos/dst/interface-ip/{addr}/port
Element Name	port
Element URI	/axapi/v3/ddos/dst/interface-ip/{addr}/port/{port-num}+{protocol}
Element Attributes	port_attributes
Partition Visibility	shared
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/interface-ip/{addr}/port

port attributes

Create List

POST

/axapi/v3/ddos/dst/interface-ip/{addr}/port

port attributes

Get Object

GET

/axapi/v3/ddos/dst/interface-ip/{addr}/port/{port-num}+{protocol}

port attributes

Get List

GET

/axapi/v3/ddos/dst/interface-ip/{addr}/port

port-list

Modify Object

POST

/axapi/v3/ddos/dst/interface-ip/{addr}/port/{port-num}+{protocol}

port attributes

Replace Object

PUT

/axapi/v3/ddos/dst/interface-ip/{addr}/port/{port-num}+{protocol}

port attributes

Replace List

PUT

/axapi/v3/ddos/dst/interface-ip/{addr}/port

port-list

Delete Object

DELETE

/axapi/v3/ddos/dst/interface-ip/{addr}/port/{port-num}+{protocol}

port attributes

port-list

port-list is **JSON List** of *port attributes*

```
port-list : [
        { port attributes },
        { port attributes },
        ...
    ]
```

port attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'tcp': tcp; 'udp': udp; 'http-probe': http port for interface health check;

Type: string

Supported Values: tcp, udp, http-probe

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.144 ddos dst interface-ipv6

Configure protections on local interface IPs

interface-ipv6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*addr*
Collection Name	*interface-ipv6-list*
Collection URI	/axapi/v3/ddos/dst/interface-ipv6
Element Name	interface-ipv6
Element URI	/axapi/v3/ddos/dst/interface-ipv6/{addr}
Element Attributes	interface-ipv6_attributes
Partition Visibility	shared
Schema	`interface-ipv6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/interface-ipv6

interface-ipv6 attributes

```
POST /axapi/v3/ddos/dst/interface-ipv6/
Payload:
{
    "interface-ipv6": {
        "addr": "2003::1",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/dst/interface-ipv6

interface-ipv6 attributes

Get Object

GET

/axapi/v3/ddos/dst/interface-ipv6/{addr}

interface-ipv6 attributes

```
GET /axapi/v3/ddos/dst/interface-ipv6/2003::1
Reponse:
{
```

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```
    "interface-ipv6": {
        "addr": "2003::1",
        "log-enable": 0,
        "uuid": "a63dfcb2-0863-11f0-bc03-3dc8e3bd18dc",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/dst/interface-ipv6/2003%3A%3A1"
    }
}
```

Get List

GET

/axapi/v3/ddos/dst/interface-ipv6

interface-ipv6-list

Modify Object

POST

/axapi/v3/ddos/dst/interface-ipv6/{addr}

interface-ipv6 attributes

Replace Object

PUT

/axapi/v3/ddos/dst/interface-ipv6/{addr}

interface-ipv6 attributes

```
PUT /axapi/v3/ddos/dst/interface-ipv6/2003::1
Payload:
{
    "interface-ipv6": {
        "addr": "2003::1",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/dst/interface-ipv6

interface-ipv6-list

Delete Object

DELETE

/axapi/v3/ddos/dst/interface-ipv6/{addr}

interface-ipv6 attributes

```
DELETE /axapi/v3/ddos/dst/interface-ipv6/2003::1
```

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```
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

interface-ipv6-list

interface-ipv6-list is **JSON List** of *interface-ipv6 attributes*

interface-ipv6-list : [

{ *interface-ipv6 attributes* },

{ *interface-ipv6 attributes* },

...

]

interface-ipv6 attributes

addr

Description IPv6 address of interface

Type: string

Format: ipv6-address

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ipv6/{addr}/ip-proto/{port-num}*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ipv6/{addr}/l4-type/{protocol}*

log-enable

Description Enable logging of limit exceed drops

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/interface-ipv6/{addr}/port/{port-num}+{protocol}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'tcp': tcp; 'udp': udp; 'http-probe': http port for interface health check;

Type: string

Supported Values: tcp, udp, http-probe

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description IP protocol number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *l4-type-list_tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *l4-type-list_tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list_tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

l4-type-list_tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

l4-type-list_tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.145 ddos dst interface-ipv6 ip-proto

Configure L4 on local interface IPs

ip-proto Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num*
Collection Name	*ip-proto-list*
Collection URI	/axapi/v3/ddos/dst/interface-ipv6/{addr}/ip-proto
Element Name	ip-proto
Element URI	/axapi/v3/ddos/dst/interface-ipv6/{addr}/ip-proto/{port-num}
Element Attributes	ip-proto_attributes
Partition Visibility	shared
Schema	`ip-proto schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/interface-ipv6/{addr}/ip-proto

ip-proto attributes

Create List

POST

/axapi/v3/ddos/dst/interface-ipv6/{addr}/ip-proto

ip-proto attributes

Get Object

GET

/axapi/v3/ddos/dst/interface-ipv6/{addr}/ip-proto/{port-num}

ip-proto attributes

Get List

GET

/axapi/v3/ddos/dst/interface-ipv6/{addr}/ip-proto

ip-proto-list

Modify Object

POST

/axapi/v3/ddos/dst/interface-ipv6/{addr}/ip-proto/{port-num}

ip-proto attributes

Replace Object

PUT

/axapi/v3/ddos/dst/interface-ipv6/{addr}/ip-proto/{port-num}

ip-proto attributes

Replace List

PUT

/axapi/v3/ddos/dst/interface-ipv6/{addr}/ip-proto

ip-proto-list

Delete Object

DELETE

/axapi/v3/ddos/dst/interface-ipv6/{addr}/ip-proto/{port-num}

ip-proto attributes

ip-proto-list

ip-proto-list is **JSON List** of *ip-proto attributes*

ip-proto-list : [

{ *ip-proto attributes* },

{ *ip-proto attributes* },

…

]

ip-proto attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description IP protocol number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.146 ddos dst interface-ipv6 l4-type

Configure L4 on local interface IPs

l4-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-list*
Collection URI	/axapi/v3/ddos/dst/interface-ipv6/{addr}/l4-type
Element Name	l4-type
Element URI	/axapi/v3/ddos/dst/interface-ipv6/{addr}/l4-type/{protocol}
Element Attributes	l4-type_attributes
Partition Visibility	shared
Schema	`l4-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/interface-ipv6/{addr}/l4-type

l4-type attributes

Create List

POST

/axapi/v3/ddos/dst/interface-ipv6/{addr}/l4-type

l4-type attributes

Get Object

GET

/axapi/v3/ddos/dst/interface-ipv6/{addr}/l4-type/{protocol}

l4-type attributes

Get List

GET

/axapi/v3/ddos/dst/interface-ipv6/{addr}/l4-type

l4-type-list

Modify Object

POST

/axapi/v3/ddos/dst/interface-ipv6/{addr}/l4-type/{protocol}

l4-type attributes

Replace Object

PUT

/axapi/v3/ddos/dst/interface-ipv6/{addr}/l4-type/{protocol}

l4-type attributes

Replace List

PUT

/axapi/v3/ddos/dst/interface-ipv6/{addr}/l4-type

l4-type-list

Delete Object

DELETE

/axapi/v3/ddos/dst/interface-ipv6/{addr}/l4-type/{protocol}

l4-type attributes

l4-type-list

l4-type-list is **JSON List** of *l4-type attributes*

```
l4-type-list : [
        { l4-type attributes },
        { l4-type attributes },
        ...
    ]
```

l4-type attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

tunnel-decap

Description: tunnel-decap is a **JSON Block**. Please see below for *tunnel-decap*

Type: Object

tunnel-rate-limit

Description: tunnel-rate-limit is a **JSON Block**. Please see below for *tunnel-rate-limit*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tunnel-decap

Specification	Value
Type	*object*

gre-decap

Description Enable GRE Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-decap

Description Enable IP Tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

key-cfg

Type: List

tunnel-decap_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

tunnel-rate-limit

Specification	Value
Type	*object*

gre-rate-limit

Description Enable inner IP rate limiting on GRE traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-rate-limit

Description Enable inner IP rate limiting on IPinIP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.147 ddos dst interface-ipv6 port

Configure port for local interface IPs

port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num, protocol*
Collection Name	*port-list*
Collection URI	/axapi/v3/ddos/dst/interface-ipv6/{addr}/port
Element Name	port
Element URI	/axapi/v3/ddos/dst/interface-ipv6/{addr}/port/{port-num}+{protocol}
Element Attributes	port_attributes
Partition Visibility	shared
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/interface-ipv6/{addr}/port

port attributes

Create List

POST

/axapi/v3/ddos/dst/interface-ipv6/{addr}/port

port attributes

Get Object

GET

/axapi/v3/ddos/dst/interface-ipv6/{addr}/port/{port-num}+{protocol}

port attributes

Get List

GET

/axapi/v3/ddos/dst/interface-ipv6/{addr}/port

port-list

Modify Object

POST

/axapi/v3/ddos/dst/interface-ipv6/{addr}/port/{port-num}+{protocol}

port attributes

Replace Object

PUT

/axapi/v3/ddos/dst/interface-ipv6/{addr}/port/{port-num}+{protocol}

port attributes

Replace List

PUT

/axapi/v3/ddos/dst/interface-ipv6/{addr}/port

port-list

Delete Object

DELETE

/axapi/v3/ddos/dst/interface-ipv6/{addr}/port/{port-num}+{protocol}

port attributes

port-list

port-list is **JSON List** of *port attributes*

port-list : [

{ *port attributes* },

{ *port attributes* },

...

]

port attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'tcp': tcp; 'udp': udp; 'http-probe': http port for interface health check;

Type: string

Supported Values: tcp, udp, http-probe

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.148 ddos dst zone

Configure a static zone entry

zone Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*zone-name*
Collection Name	*zone-list*
Collection URI	/axapi/v3/ddos/dst/zone
Element Name	zone
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}
Element Attributes	zone_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/oper
Schema	`zone schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone

zone attributes

```
POST /axapi/v3/ddos/dst/zone/
Payload:
{
    "zone": {
        "zone-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/dst/zone

zone attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}

zone attributes

```
GET /axapi/v3/ddos/dst/zone/a
Reponse:
{
    "zone": {
        "zone-name": "a",
        "operational-mode": "idle",
        "continuous-learning": 0,
        "threshold-sensitivity": "OFF",
        "drop-frag-pkt": 0,
        "sflow-common": 0,
        "advertised-enable": 0,
        "telemetry-enable": 0,
        "reporting-disabled": 0,
        "log-enable": 0,
        "log-high-frequency": 0,
        "uuid": "25ce2812-0864-11f0-bc03-3dc8e3bd18dc",
        "user-tag": "a",
        "packet-anomaly-detection": {
            "uuid": "25ce3956-0864-11f0-bc03-3dc8e3bd18dc",
            "a10-url": "/axapi/v3/ddos/dst/zone/a/packet-anomaly-detection"
        },
        "topk-destinations": {
```

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```
            "uuid": "25ce3a5a-0864-11f0-bc03-3dc8e3bd18dc",
            "a10-url": "/axapi/v3/ddos/dst/zone/a/topk-destinations"
        },
        "web-gui": {
            "status": "newly",
            "activated-after-learning": 0,
            "sensitivity": "3",
            "uuid": "25ce3ea6-0864-11f0-bc03-3dc8e3bd18dc",
            "learning": {
                "duration": "6hour",
                "uuid": "25ce4112-0864-11f0-bc03-3dc8e3bd18dc",
                "a10-url": "/axapi/v3/ddos/dst/zone/a/web-gui/learning"
            },
            "a10-url": "/axapi/v3/ddos/dst/zone/a/web-gui"
        },
        "a10-url": "/axapi/v3/ddos/dst/zone/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/dst/zone

zone-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}

zone attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}

zone attributes

```
PUT /axapi/v3/ddos/dst/zone/a
Payload:
{
    "zone": {
        "zone-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/dst/zone

zone-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}

zone attributes

```
DELETE /axapi/v3/ddos/dst/zone/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

zone-list

zone-list is **JSON List** of *zone attributes*

zone-list : [

{ *zone attributes* },

{ *zone attributes* },

...

]

zone attributes

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

advertised-enable

Description BGP advertised

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/capture-config/{name}*

collector

Type: List

continuous-learning

Description Continuous learning of detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

description

Description Description for this Destination Zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dest-nat-ip

Description Destination NAT IP address

Type: string

Format: ipv4-address

dest-nat-ipv6

Description Destination NAT IPv6 address

Type: string

Format: ipv6-address

detection

Description: detection is a **JSON Block**. Please see below for *detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection*

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Type: List

force-operational-mode

Description Force configure operational mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

hw-blacklist-blocking

Description: hw-blacklist-blocking is a **JSON Block**. Please see below for *hw-blacklist-blocking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/hw-blacklist-blocking*

inbound-forward-dscp

Description To set dscp value for inbound packets (DSCP Value for the clear traffic marking)

Type: number

Range: 1-63

ip

Type: List

ip-proto

Description: ip-proto is a **JSON Block**. Please see below for *ip-proto*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto*

ipv6

Type: List

is-from-wizard

Description Is It Created from Onbox GUI Wizard

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-high-frequency

Description Enable High frequency logging for non-event logs per zone

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

non-restrictive

Description Non-restrictive mode ignores Zero Thresholds Indicators

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

operational-mode

Description 'idle': Idle mode; 'monitor': Monitor mode; 'learning': Learning mode;

Type: string

Supported Values: idle, monitor, learning

Default: idle

outbound-forward-dscp

Description To set dscp value for outbound

Type: number

Range: 1-63

outbound-policy

Description: outbound-policy is a **JSON Block**. Please see below for *outbound-policy*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy*

packet-anomaly-detection

Description: packet-anomaly-detection is a **JSON Block**. Please see below for *packet-anomaly-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection*

pattern-recognition-hw-filter-enable

Description to enable pattern recognition hardware filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition-sensitivity

Description 'high': High sensitive pattern recognition; 'medium': Medium sensitive pattern recognition; 'low': Low sensitive pattern recognition;

Type: string

Supported Values: high, medium, low

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port

Description: port is a **JSON Block**. Please see below for *port*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}*

rate-limit

Description Rate limit per second per zone(Default : 1 per second)

Type: number

Range: 1-1000

Default: 1

reporting-disabled

Description Disable Reporting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Type: List

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable sFlow counter polling packets, tcp-basic, tcp-stateful and http. WARNING: Zone level Sflow polling might induce heavy CP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-layer-4, sflow-tcp-basic, sflow-tcp-stateful, and sflow-http are mutually exclusive

sflow-http

Description Enable sFlow HTTP counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the total number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-http and sflow-common are mutually exclusive

sflow-layer-4

Description Enable sFlow Layer 4 counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the number of

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-layer-4 and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the total

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *sflow-tcp*

Type: Object

source-nat-pool

Description Configure source NAT

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-port

Description: src-port is a **JSON Block**. Please see below for *src-port*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port*

src-port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}*

src-prefix-len

Description Specify src prefix length for IPv6 (default: not set)

Type: number

Range: 32-127

telemetry-enable

Description Enable from-l3-peer flag for the zone, thus all the ip entries in the zone will be dynamically created/deleted based on the BGP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

threshold-sensitivity

Description tune threshold ranges with levels LOW/MEDIUM/HIGH/OFF(default) or multiplier of threshold value (available options are LOW=5x/MEDIUM=3x/HIGH=1.5x/OFF=1x, or float value between 1.0-10.0)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Default: OFF

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

web-gui

Description: web-gui is a **JSON Block**. Please see below for *web-gui*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui*

zone-migrate-to-opposite

Description Migrate zone to opposite PU

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-name

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

zone-profile

Description Apply threshold profile

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/zone-profile*

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

outbound-policy

Specification	Value
Type	*object*

name

Description Specify name of the outbound policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/outbound-policy*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip

Specification	Value
Type	*list*
Block object keys	

expand-ip-subnet

Description Expand this subnet to individual IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

expand-ip-subnet-mode

Description 'default': Default learning mechanism (Default: Dynamic); 'dynamic': Dynamic learning; 'static': Static learning;

Type: string

Supported Values: default, dynamic, static

Default: default

ip-addr

Description Specify IP address

Type: string

Format: ipv4-address

subnet-ip-addr

Description IP Subnet

Type: string

Format: ipv4-cidr

detection

Specification	Value
Type	*object*

notification

Description: notification is a **JSON Block**. Please see below for *detection_notification*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/notification*

outbound-detection

Description: outbound-detection is a **JSON Block**. Please see below for *detection_outbound-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection*

packet-anomaly-detection

Description: packet-anomaly-detection is a **JSON Block**. Please see below for *detection_packet-anomaly-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection*

service-discovery

Description: service-discovery is a **JSON Block**. Please see below for *detection_service-discovery*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery*

settings

Description 'settings': settings;

Type: string

Supported Values: settings

toggle

Description 'enable': Enable detection; 'disable': Disable detection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

victim-ip-detection

Description: victim-ip-detection is a **JSON Block**. Please see below for *detection_victim-ip-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection*

detection_packet-anomaly-detection

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator/{type}*

toggle

Description 'enable': Enable packet anomaly; 'disable': Disable packet anomaly;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_packet-anomaly-detection_indicator-list

Specification	Value
Type	*list*
Block object keys	

threshold-num

Description Threshold for each indicator

Type: number

Range: 1-65535

Default: 100

type

Description 'port-zero-pkt-rate': Port Zero Packet Rate (default 100 packet per second);

Type: string

Supported Values: port-zero-pkt-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_victim-ip-detection

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

histogram-toggle

Description 'histogram-enable': Enable histogram statistics of victim IP detection; 'histogram-disable': Disable histogram statistics of victim IP detection;

Type: string

Supported Values: histogram-enable, histogram-disable

Default: histogram-disable

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator/{type}*

toggle

Description 'enable': Enable victim IP detection; 'disable': Disable victim IP detection;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_victim-ip-detection_indicator-list

Specification	Value
Type	*list*
Block object keys	

ip-threshold-num

Description Threshold for IP

Type: number

Range: 1-2147483647

type

Description 'pkt-rate': rate of incoming packets; 'reverse-pkt-rate': rate of reverse coming packets; 'fwd-byte-rate': rate of incoming bytes; 'rev-byte-rate': rate of reverse coming bytes;

Type: string

Supported Values: pkt-rate, reverse-pkt-rate, fwd-byte-rate, rev-byte-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_notification

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

notification

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_notification_notification

Specification	Value
Type	*list*
Block object keys	

notification-template-name

Description Specify the notification template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/notification-template*

detection_service-discovery

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

pkt-rate-threshold

Description packet rate threshold for discovery (default 10 packets per second)

Type: number

Range: 1-255

Default: 10

toggle

Description 'enable': Enable service discovery; 'disable': Disable service discovery;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_outbound-detection

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

discovery-method

Description 'asn': Autonomous Systems number; 'country': Country;

Type: string

Supported Values: asn, country

discovery-record

Description Maximum number of top locations

Type: number

Range: 1-100

Default: 10

enable-top-k

Type: List

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator/{type}*

toggle

Description 'enable': Enable outbound detection; 'disable': Disable outbound detection;

Type: string

Supported Values: enable, disable

Default: disable

topk-source-subnet

Description: topk-source-subnet is a **JSON Block**. Please see below for *detection_outbound-detection_topk-source-subnet*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_outbound-detection_topk-source-subnet

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

detection_outbound-detection_enable-top-k

Specification	Value
Type	*list*
Block object keys	

topk-netmask

Description Subnet mask. The value should be less than or equal to the minimum zone subnet mask + 8 (IPv6 Subnet mask)

Type: number

Range: 1-128

Default: 128

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-type

Description 'source-subnet': Topk source subnet;

Type: string

Supported Values: source-subnet

detection_outbound-detection_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

threshold-large-num

Description Threshold for each geo-location

Type: number

Range: 1-10995116277760

threshold-num

Description Threshold for each geo-location

Type: number

Range: 1-2147483647

threshold-str

Description Threshold for each geo-location (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, syn-rate, fin-rate, rst-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-anomaly-detection

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto

Specification	Value
Type	*object*

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}*

proto-number-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}*

proto-tcp-udp-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}*

ip-proto_proto-number-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deny

Description Blacklist and Drop all incoming packets for this ip-proto

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

esp-inspect

Description: esp-inspect is a **JSON Block**. Please see below for *ip-proto_proto-number-list_esp-inspect*

Type: Object

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *ip-proto_proto-number-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-proto_proto-number-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

port-ind

Description: port-ind is a **JSON Block**. Please see below for *ip-proto_proto-number-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *ip-proto_proto-number-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking*

protocol-num

Description Protocol Number

Type: number

Range: 0-255

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *ip-proto_proto-number-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *ip-proto_proto-number-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *ip-proto_proto-number-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

ip-proto_proto-number-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

ip-proto_proto-number-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *ip-proto_proto-number-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

ip-proto_proto-number-list_level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

ip-proto_proto-number-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *ip-proto_proto-number-list_manual-mode-list_zone-template*

Type: Object

ip-proto_proto-number-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid, glid, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current;

‘ddet_ind_pkt_drop_ratio_min’: Pkt Drop / Pkt Rcvd Min; ‘ddet_ind_pkt_drop_ratio_max’: Pkt Drop / Pkt Rcvd Max; ‘ddet_ind_pkt_drop_ratio_adaptive_threshold’: Pkt Drop / Pkt Rcvd Adaptive Threshold; ‘ddet_ind_inb_per_outb_current’: Bytes-to / Bytes-from Current; ‘ddet_ind_inb_per_outb_min’: Bytes-to / Bytes-from Min; ‘ddet_ind_inb_per_outb_max’: Bytes-to / Bytes-from Max; ‘ddet_ind_inb_per_outb_adaptive_threshold’: Bytes-to / Bytes-from Adaptive Threshold; ‘ddet_ind_syn_per_fin_rate_current’: TCP SYN Rate / FIN Rate Current; ‘ddet_ind_syn_per_fin_rate_min’: TCP SYN Rate / FIN Rate Min; ‘ddet_ind_syn_per_fin_rate_max’: TCP SYN Rate / FIN Rate Max; ‘ddet_ind_syn_per_fin_rate_adaptive_threshold’: TCP SYN Rate / FIN Rate Adaptive Threshold; ‘ddet_ind_conn_miss_rate_current’: TCP Session Miss Rate Current; ‘ddet_ind_conn_miss_rate_min’: TCP Session Miss Rate Min; ‘ddet_ind_conn_miss_rate_max’: TCP Session Miss Rate Max; ‘ddet_ind_conn_miss_rate_adaptive_threshold’: TCP Session Miss Rate Adaptive Threshold; ‘ddet_ind_concurrent_conns_current’: TCP/UDP Concurrent Sessions Current; ‘ddet_ind_concurrent_conns_min’: TCP/UDP Concurrent Sessions Min; ‘ddet_ind_concurrent_conns_max’: TCP/UDP Concurrent Sessions Max; ‘ddet_ind_concurrent_conns_adaptive_threshold’: TCP/UDP Concurrent Sessions Adaptive Threshold; ‘ddet_ind_data_cpu_util_current’: Data CPU Utilization Current; ‘ddet_ind_data_cpu_util_min’: Data CPU Utilization Min; ‘ddet_ind_data_cpu_util_max’: Data CPU Utilization Max; ‘ddet_ind_data_cpu_util_adaptive_threshold’: Data CPU Utilization Adaptive Threshold; ‘ddet_ind_outside_intf_util_current’: Outside Interface Utilization Current; ‘ddet_ind_outside_intf_util_min’: Outside Interface Utilization Min; ‘ddet_ind_outside_intf_util_max’: Outside Interface Utilization Max; ‘ddet_ind_outside_intf_util_adaptive_threshold’: Outside Interface Utilization Adaptive Threshold; ‘ddet_ind_frag_rate_current’: Frag Pkt Rate Current; ‘ddet_ind_frag_rate_min’: Frag Pkt Rate Min; ‘ddet_ind_frag_rate_max’: Frag Pkt Rate Max; ‘ddet_ind_frag_rate_adaptive_threshold’: Frag Pkt Rate Adaptive Threshold; ‘ddet_ind_bit_rate_current’: Bit Rate Current; ‘ddet_ind_bit_rate_min’: Bit Rate Min; ‘ddet_ind_bit_rate_max’: Bit Rate Max; ‘ddet_ind_bit_rate_adaptive_threshold’: Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold,

ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

ip-proto_proto-number-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_esp-inspect

Specification	Value
Type	*object*

auth-algorithm

Description 'AUTH_NULL': No Integrity Check Value; 'HMAC-SHA-1-96': 96 bit Auth Algo; 'HMAC-SHA-256-96': 96 bit Auth Algo; 'HMAC-SHA-256-128': 128 bit Auth Algo; 'HMAC-SHA-384-192': 192 bit Auth Algo; 'HMAC-SHA-512-256': 256 bit Auth Algo; 'HMAC-MD5-96': 96 bit Auth Algo; 'MAC-RIPEMD-160-96': 96 bit Auth Algo;

Type: string

Supported Values: AUTH_NULL, HMAC-SHA-1-96, HMAC-SHA-256-96, HMAC-SHA-256-128, HMAC-SHA-384-192, HMAC-SHA-512-256, HMAC-MD5-96, MAC-RIPEMD-160-96

encrypt-algorithm

Description 'NULL': Null Encryption Algorithm;

Type: string

Supported Values: NULL

mode

Description 'transport': Transport mode;

Type: string

Supported Values: transport

ip-proto_proto-number-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-name-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deny

Description Blacklist and Drop all incoming packets for ip-proto icmp-v4

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *ip-proto_proto-name-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-proto_proto-name-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics*

key-cfg

Type: List

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

port-ind

Description: port-ind is a **JSON Block**. Please see below for *ip-proto_proto-name-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *ip-proto_proto-name-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking*

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6; 'other': ip-proto other; 'gre': ip-proto gre; 'ipv4-encap': ip-proto IPv4 Encapsulation; 'ipv6-encap': ip-proto IPv6 Encapsulation;

Type: string

Supported Values: icmp-v4, icmp-v6, other, gre, ipv4-encap, ipv6-encap

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *ip-proto_proto-name-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *ip-proto_proto-name-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources*

tunnel-decap

Description Enable tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-rate-limit

Description Enable DDOS-protection on tunnel traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *ip-proto_proto-name-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

ip-proto_proto-name-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

ip-proto_proto-name-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *ip-proto_proto-name-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

ip-proto_proto-name-list_level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

ip-proto_proto-name-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *ip-proto_proto-name-list_manual-mode-list_zone-template*

Type: Object

ip-proto_proto-name-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, icmp-v4, icmp-v6, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v4 and class-list-glid are mutually exclusive

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v6 and class-list-glid are mutually exclusive

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current;

‘ddet_ind_pkt_drop_ratio_min’: Pkt Drop / Pkt Rcvd Min; ‘ddet_ind_pkt_drop_ratio_max’: Pkt Drop / Pkt Rcvd Max; ‘ddet_ind_pkt_drop_ratio_adaptive_threshold’: Pkt Drop / Pkt Rcvd Adaptive Threshold; ‘ddet_ind_inb_per_outb_current’: Bytes-to / Bytes-from Current; ‘ddet_ind_inb_per_outb_min’: Bytes-to / Bytes-from Min; ‘ddet_ind_inb_per_outb_max’: Bytes-to / Bytes-from Max; ‘ddet_ind_inb_per_outb_adaptive_threshold’: Bytes-to / Bytes-from Adaptive Threshold; ‘ddet_ind_syn_per_fin_rate_current’: TCP SYN Rate / FIN Rate Current; ‘ddet_ind_syn_per_fin_rate_min’: TCP SYN Rate / FIN Rate Min; ‘ddet_ind_syn_per_fin_rate_max’: TCP SYN Rate / FIN Rate Max; ‘ddet_ind_syn_per_fin_rate_adaptive_threshold’: TCP SYN Rate / FIN Rate Adaptive Threshold; ‘ddet_ind_conn_miss_rate_current’: TCP Session Miss Rate Current; ‘ddet_ind_conn_miss_rate_min’: TCP Session Miss Rate Min; ‘ddet_ind_conn_miss_rate_max’: TCP Session Miss Rate Max; ‘ddet_ind_conn_miss_rate_adaptive_threshold’: TCP Session Miss Rate Adaptive Threshold; ‘ddet_ind_concurrent_conns_current’: TCP/UDP Concurrent Sessions Current; ‘ddet_ind_concurrent_conns_min’: TCP/UDP Concurrent Sessions Min; ‘ddet_ind_concurrent_conns_max’: TCP/UDP Concurrent Sessions Max; ‘ddet_ind_concurrent_conns_adaptive_threshold’: TCP/UDP Concurrent Sessions Adaptive Threshold; ‘ddet_ind_data_cpu_util_current’: Data CPU Utilization Current; ‘ddet_ind_data_cpu_util_min’: Data CPU Utilization Min; ‘ddet_ind_data_cpu_util_max’: Data CPU Utilization Max; ‘ddet_ind_data_cpu_util_adaptive_threshold’: Data CPU Utilization Adaptive Threshold; ‘ddet_ind_outside_intf_util_current’: Outside Interface Utilization Current; ‘ddet_ind_outside_intf_util_min’: Outside Interface Utilization Min; ‘ddet_ind_outside_intf_util_max’: Outside Interface Utilization Max; ‘ddet_ind_outside_intf_util_adaptive_threshold’: Outside Interface Utilization Adaptive Threshold; ‘ddet_ind_frag_rate_current’: Frag Pkt Rate Current; ‘ddet_ind_frag_rate_min’: Frag Pkt Rate Min; ‘ddet_ind_frag_rate_max’: Frag Pkt Rate Max; ‘ddet_ind_frag_rate_adaptive_threshold’: Frag Pkt Rate Adaptive Threshold; ‘ddet_ind_bit_rate_current’: Bit Rate Current; ‘ddet_ind_bit_rate_min’: Bit Rate Min; ‘ddet_ind_bit_rate_max’: Bit Rate Max; ‘ddet_ind_bit_rate_adaptive_threshold’: Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold,

ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

ip-proto_proto-name-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-tcp-udp-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for this ip-proto

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *ip-proto_proto-tcp-udp-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-proto_proto-tcp-udp-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics*

protocol

Description 'tcp': ip-proto tcp; 'udp': ip-proto udp;

Type: string

Supported Values: tcp, udp

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-tcp-udp-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

ip-proto_proto-tcp-udp-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config

Description: capture-config is a **JSON Block**. Please see below for *port-range-list_capture-config*

Type: Object

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified under zone port or each class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *port-range-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *port-range-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *port-range-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *port-range-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-range-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *port-range-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp, quic

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-ip-filtering-policy, sflow-tcp-basic, sflow-tcp-stateful, and sflow-http are mutually exclusive

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-http and sflow-common are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *port-range-list_sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *port-range-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *port-range-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

virtualhosts

Description: virtualhosts is a **JSON Block**. Please see below for *port-range-list_virtualhosts*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts*

port-range-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

app-payload-offset

Description Set offset of the payload, default 0

Type: number

Range: 0-1500

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port-range-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

port-range-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-range-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port-range-list_level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port-range-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

port-range-list_level-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-range-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

port-range-list_virtualhosts

Specification	Value
Type	*object*

source-tracking-all

Description enables creation of source entries for all virtualhosts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhosts-config

Description 'configuration': configure virtualhost based mitigation for ssl services;

Type: string

Supported Values: configuration

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}*

port-range-list_virtualhosts_virtualhost-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *port-range-list_virtualhosts_virtualhost-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}*

servername

Type: List

servername-list

Description Class List to match servername (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername-match-any

Description Match when there is no SNI or other servernames are not matched

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-tracking

Description 'follow': enable creation of source entries when source-tracking-all is enabled (default); 'enable': enable creation of source entries on this virtualhost; 'disable': disable creation of source entries on this virtualhost;

Type: string

Supported Values: follow, enable, disable

Default: follow

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-range-list_virtualhosts_virtualhost-list_servername

Specification	Value
Type	*list*
Block object keys	

host-match-string

Description SNI String

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'contains': match servername extension when contains this string; 'ends-with': match servername extension when ends with this string; 'equals': match servername extension when equals this string; 'starts-with': match servername extension when starts with this string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

port-range-list_virtualhosts_virtualhost-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

port-range-list_virtualhosts_virtualhost-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port-range-list_virtualhosts_virtualhost-list_level-list_zone-template*

Type: Object

port-range-list_virtualhosts_virtualhost-list_level-list_zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-range-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port-range-list_manual-mode-list_zone-template*

Type: Object

port-range-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-range-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, quic, dns, http, ssl-l4, sip, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port-range-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

port-range-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns and class-list-glid are mutually exclusive

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: quic and class-list-glid are mutually exclusive

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip and class-list-glid are mutually exclusive

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4 and class-list-glid are mutually exclusive

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

port-range-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

port-range-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port-range-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

port-range-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-range-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current;

‘ddet_ind_pkt_drop_ratio_min’: Pkt Drop / Pkt Rcvd Min; ‘ddet_ind_pkt_drop_ratio_max’: Pkt Drop / Pkt Rcvd Max; ‘ddet_ind_pkt_drop_ratio_adaptive_threshold’: Pkt Drop / Pkt Rcvd Adaptive Threshold; ‘ddet_ind_inb_per_outb_current’: Bytes-to / Bytes-from Current; ‘ddet_ind_inb_per_outb_min’: Bytes-to / Bytes-from Min; ‘ddet_ind_inb_per_outb_max’: Bytes-to / Bytes-from Max; ‘ddet_ind_inb_per_outb_adaptive_threshold’: Bytes-to / Bytes-from Adaptive Threshold; ‘ddet_ind_syn_per_fin_rate_current’: TCP SYN Rate / FIN Rate Current; ‘ddet_ind_syn_per_fin_rate_min’: TCP SYN Rate / FIN Rate Min; ‘ddet_ind_syn_per_fin_rate_max’: TCP SYN Rate / FIN Rate Max; ‘ddet_ind_syn_per_fin_rate_adaptive_threshold’: TCP SYN Rate / FIN Rate Adaptive Threshold; ‘ddet_ind_conn_miss_rate_current’: TCP Session Miss Rate Current; ‘ddet_ind_conn_miss_rate_min’: TCP Session Miss Rate Min; ‘ddet_ind_conn_miss_rate_max’: TCP Session Miss Rate Max; ‘ddet_ind_conn_miss_rate_adaptive_threshold’: TCP Session Miss Rate Adaptive Threshold; ‘ddet_ind_concurrent_conns_current’: TCP/UDP Concurrent Sessions Current; ‘ddet_ind_concurrent_conns_min’: TCP/UDP Concurrent Sessions Min; ‘ddet_ind_concurrent_conns_max’: TCP/UDP Concurrent Sessions Max; ‘ddet_ind_concurrent_conns_adaptive_threshold’: TCP/UDP Concurrent Sessions Adaptive Threshold; ‘ddet_ind_data_cpu_util_current’: Data CPU Utilization Current; ‘ddet_ind_data_cpu_util_min’: Data CPU Utilization Min; ‘ddet_ind_data_cpu_util_max’: Data CPU Utilization Max; ‘ddet_ind_data_cpu_util_adaptive_threshold’: Data CPU Utilization Adaptive Threshold; ‘ddet_ind_outside_intf_util_current’: Outside Interface Utilization Current; ‘ddet_ind_outside_intf_util_min’: Outside Interface Utilization Min; ‘ddet_ind_outside_intf_util_max’: Outside Interface Utilization Max; ‘ddet_ind_outside_intf_util_adaptive_threshold’: Outside Interface Utilization Adaptive Threshold; ‘ddet_ind_frag_rate_current’: Frag Pkt Rate Current; ‘ddet_ind_frag_rate_min’: Frag Pkt Rate Min; ‘ddet_ind_frag_rate_max’: Frag Pkt Rate Max; ‘ddet_ind_frag_rate_adaptive_threshold’: Frag Pkt Rate Adaptive Threshold; ‘ddet_ind_bit_rate_current’: Bit Rate Current; ‘ddet_ind_bit_rate_min’: Bit Rate Min; ‘ddet_ind_bit_rate_max’: Bit Rate Max; ‘ddet_ind_bit_rate_adaptive_threshold’: Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold,

ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

port-range-list_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

port-range-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

port-range-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

collector

Specification	Value
Type	*list*
Block object keys	

sflow-name

Description Name of configured custom sFlow collector

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/sflow/collector/custom*

topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

capture-config-list

Specification	Value
Type	*list*
Block object keys	

mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

hw-blacklist-blocking

Specification	Value
Type	*object*

dst-enable

Description Enable Dst side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-enable

Description Enable Src side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port

Specification	Value
Type	*object*

zone-service-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}*

zone-service-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}*

port_zone-service-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config

Description: capture-config is a **JSON Block**. Please see below for *port_zone-service-list_capture-config*

Type: Object

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *port_zone-service-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *port_zone-service-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *port_zone-service-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *port_zone-service-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port_zone-service-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind*

port-num

Description Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *port_zone-service-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp, quic

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-ip-filtering-policy, sflow-tcp-basic, sflow-tcp-stateful, and sflow-http are mutually exclusive

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-http and sflow-common are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *port_zone-service-list_sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *port_zone-service-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *port_zone-service-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

virtualhosts

Description: virtualhosts is a **JSON Block**. Please see below for *port_zone-service-list_virtualhosts*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts*

port_zone-service-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

app-payload-offset

Description Set offset of the payload

Type: number

Range: 0-1500

Default: 0

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port_zone-service-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

port_zone-service-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port_zone-service-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port_zone-service-list_level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-signature-extraction

Description Start signature extraction from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port_zone-service-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

port_zone-service-list_level-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port_zone-service-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

port_zone-service-list_virtualhosts

Specification	Value
Type	*object*

source-tracking-all

Description enable creation of source entries for all virtualhosts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhosts-config

Description 'configuration': configure virtualhost based mitigation for ssl services;

Type: string

Supported Values: configuration

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}*

port_zone-service-list_virtualhosts_virtualhost-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *port_zone-service-list_virtualhosts_virtualhost-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}*

servername

Type: List

servername-list

Description Class List to match servername (AC type Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername-match-any

Description Match when there is no SNI or other servernames are not matched

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

servername-no-sni

Description Match when there is no SNI extension found

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-tracking

Description 'follow': enable creation of source entries when source-tracking-all is enabled (default); 'enable': enable creation of source entries on this virtualhost; 'disable': disable creation of source entries on this virtualhost;

Type: string

Supported Values: follow, enable, disable

Default: follow

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port_zone-service-list_virtualhosts_virtualhost-list_servername

Specification	Value
Type	*list*
Block object keys	

host-match-string

Description SNI String

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'contains': match servername extension when contains this string; 'ends-with': match servername extension when ends with this string; 'equals': match servername extension when equals this string; 'starts-with': match servername extension when starts with this string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

port_zone-service-list_virtualhosts_virtualhost-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

port_zone-service-list_virtualhosts_virtualhost-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port_zone-service-list_virtualhosts_virtualhost-list_level-list_zone-template*

Type: Object

port_zone-service-list_virtualhosts_virtualhost-list_level-list_zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port_zone-service-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port_zone-service-list_manual-mode-list_zone-template*

Type: Object

port_zone-service-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port_zone-service-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, quic, dns, http, ssl-l4, sip, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port_zone-service-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

port_zone-service-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

port_zone-service-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns and class-list-glid are mutually exclusive

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: quic and class-list-glid are mutually exclusive

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip and class-list-glid are mutually exclusive

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4 and class-list-glid are mutually exclusive

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

port_zone-service-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port_zone-service-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

port_zone-service-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port_zone-service-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description ‘all’: all; ‘ip-proto-type’: IP Protocol Type; ‘ddet_ind_pkt_rate_current’: Pkt Rate Current; ‘ddet_ind_pkt_rate_min’: Pkt Rate Min; ‘ddet_ind_pkt_rate_max’: Pkt Rate Max; ‘ddet_ind_pkt_rate_adaptive_threshold’: Pkt Rate Adaptive Threshold; ‘ddet_ind_pkt_drop_rate_current’: Pkt Drop Rate Current; ‘ddet_ind_pkt_drop_rate_min’: Pkt Drop Rate Min; ‘ddet_ind_pkt_drop_rate_max’: Pkt Drop Rate Max; ‘ddet_ind_pkt_drop_rate_adaptive_threshold’: Pkt Drop Rate Adaptive Threshold; ‘ddet_ind_syn_rate_current’: TCP SYN Rate Current; ‘ddet_ind_syn_rate_min’: TCP SYN Rate Min; ‘ddet_ind_syn_rate_max’: TCP SYN Rate Max; ‘ddet_ind_syn_rate_adaptive_threshold’: TCP SYN Rate Adaptive Threshold; ‘ddet_ind_fin_rate_current’: TCP FIN Rate Current; ‘ddet_ind_fin_rate_min’: TCP FIN Rate Min; ‘ddet_ind_fin_rate_max’: TCP FIN Rate Max; ‘ddet_ind_fin_rate_adaptive_threshold’: TCP FIN Rate Adaptive Threshold; ‘ddet_ind_rst_rate_current’: TCP RST Rate Current; ‘ddet_ind_rst_rate_min’: TCP RST Rate Min; ‘ddet_ind_rst_rate_max’: TCP RST Rate Max; ‘ddet_ind_rst_rate_adaptive_threshold’: TCP RST Rate Adaptive Threshold; ‘ddet_ind_small_window_ack_rate_current’: TCP Small Window ACK Rate Current; ‘ddet_ind_small_window_ack_rate_min’: TCP Small Window ACK Rate Min; ‘ddet_ind_small_window_ack_rate_max’: TCP Small Window ACK Rate Max; ‘ddet_ind_small_window_ack_rate_adaptive_threshold’: TCP Small Window ACK Rate Adaptive Threshold; ‘ddet_ind_empty_ack_rate_current’: TCP Empty ACK Rate Current; ‘ddet_ind_empty_ack_rate_min’: TCP Empty ACK Rate Min; ‘ddet_ind_empty_ack_rate_max’: TCP Empty ACK Rate Max; ‘ddet_ind_empty_ack_rate_adaptive_threshold’: TCP Empty ACK Rate Adaptive Threshold; ‘ddet_ind_small_payload_rate_current’: TCP Small Payload Rate Current; ‘ddet_ind_small_payload_rate_min’: TCP Small Payload Rate Min; ‘ddet_ind_small_payload_rate_max’: TCP Small Payload Rate Max; ‘ddet_ind_small_payload_rate_adaptive_threshold’: TCP Small Payload Rate Adaptive Threshold; ‘ddet_ind_pkt_drop_ratio_current’: Pkt Drop / Pkt Rcvd Current; ‘ddet_ind_pkt_drop_ratio_min’: Pkt Drop / Pkt Rcvd Min; ‘ddet_ind_pkt_drop_ratio_max’: Pkt Drop / Pkt Rcvd Max; ‘ddet_ind_pkt_drop_ratio_adaptive_threshold’: Pkt Drop / Pkt Rcvd Adaptive Threshold; ‘ddet_ind_inb_per_outb_current’: Bytes-to / Bytes-from Current; ‘ddet_ind_inb_per_outb_min’: Bytes-to / Bytes-from Min; ‘ddet_ind_inb_per_outb_max’: Bytes-to / Bytes-from Max; ‘ddet_ind_inb_per_outb_adaptive_threshold’: Bytes-to / Bytes-from Adaptive Threshold; ‘ddet_ind_syn_per_fin_rate_current’: TCP SYN Rate / FIN Rate Current; ‘ddet_ind_syn_per_fin_rate_min’: TCP SYN Rate / FIN Rate Min; ‘ddet_ind_syn_per_fin_rate_max’: TCP SYN Rate / FIN Rate Max; ‘ddet_ind_syn_per_fin_rate_adaptive_threshold’: TCP SYN Rate / FIN Rate Adaptive Threshold; ‘ddet_ind_conn_miss_rate_current’: TCP Session Miss Rate Current; ‘ddet_ind_conn_miss_rate_min’: TCP Session Miss Rate Min; ‘ddet_ind_conn_miss_rate_max’: TCP Session Miss Rate Max; ‘ddet_ind_conn_miss_rate_adaptive_threshold’: TCP Session Miss Rate Adaptive Threshold; ‘ddet_ind_concurrent_conns_current’: TCP/UDP Concurrent Sessions Current; ‘ddet_ind_concurrent_conns_min’: TCP/UDP Concurrent Sessions Min; ‘ddet_ind_concurrent_conns_max’: TCP/UDP Concurrent Sessions Max; ‘ddet_ind_concurrent_conns_adaptive_threshold’: TCP/UDP Concurrent Sessions Adaptive Threshold; ‘ddet_ind_data_cpu_util_current’: Data CPU Utilization Current; ‘ddet_ind_data_cpu_util_min’: Data CPU Utilization Min; ‘ddet_ind_data_cpu_util_max’: Data CPU Utilization Max; ‘ddet_ind_data_cpu_util_adaptive_threshold’: Data CPU Utilization Adaptive Threshold; ‘ddet_ind_outside_intf_util_current’: Outside Interface Utilization Current; ‘ddet_ind_outside_intf_util_min’: Outside Interface Utilization Min; ‘ddet_ind_outside_intf_util_max’: Outside Interface Utilization Max; ‘ddet_ind_outside_intf_util_adaptive_threshold’: Outside Interface Utilization Adaptive Threshold; ‘ddet_ind_frag_rate_current’: Frag Pkt Rate Current; ‘ddet_ind_frag_rate_min’: Frag Pkt Rate Min; ‘ddet_ind_frag_rate_max’: Frag Pkt Rate Max; ‘ddet_ind_frag_rate_adaptive_threshold’: Frag Pkt Rate Adaptive Threshold;

'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

port_zone-service-list_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

port_zone-service-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

port_zone-service-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-other-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for this zone port or each class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *port_zone-service-other-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *port_zone-service-other-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *port_zone-service-other-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *port_zone-service-other-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port_zone-service-other-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *port_zone-service-other-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking*

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-tcp-basic, sflow-tcp-stateful, and sflow-ip-filtering-policy are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *port_zone-service-other-list_sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *port_zone-service-other-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *port_zone-service-other-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-other-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-other-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-other-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port_zone-service-other-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

port_zone-service-other-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port_zone-service-other-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

port_zone-service-other-list_level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port_zone-service-other-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

port_zone-service-other-list_level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port_zone-service-other-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

port_zone-service-other-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port_zone-service-other-list_manual-mode-list_zone-template*

Type: Object

port_zone-service-other-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port_zone-service-other-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-other-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port_zone-service-other-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

port_zone-service-other-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

port_zone-service-other-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

port_zone-service-other-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *port_zone-service-other-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

port_zone-service-other-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port_zone-service-other-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-other-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-other-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current;

‘ddet_ind_pkt_drop_ratio_min’: Pkt Drop / Pkt Rcvd Min; ‘ddet_ind_pkt_drop_ratio_max’: Pkt Drop / Pkt Rcvd Max; ‘ddet_ind_pkt_drop_ratio_adaptive_threshold’: Pkt Drop / Pkt Rcvd Adaptive Threshold; ‘ddet_ind_inb_per_outb_current’: Bytes-to / Bytes-from Current; ‘ddet_ind_inb_per_outb_min’: Bytes-to / Bytes-from Min; ‘ddet_ind_inb_per_outb_max’: Bytes-to / Bytes-from Max; ‘ddet_ind_inb_per_outb_adaptive_threshold’: Bytes-to / Bytes-from Adaptive Threshold; ‘ddet_ind_syn_per_fin_rate_current’: TCP SYN Rate / FIN Rate Current; ‘ddet_ind_syn_per_fin_rate_min’: TCP SYN Rate / FIN Rate Min; ‘ddet_ind_syn_per_fin_rate_max’: TCP SYN Rate / FIN Rate Max; ‘ddet_ind_syn_per_fin_rate_adaptive_threshold’: TCP SYN Rate / FIN Rate Adaptive Threshold; ‘ddet_ind_conn_miss_rate_current’: TCP Session Miss Rate Current; ‘ddet_ind_conn_miss_rate_min’: TCP Session Miss Rate Min; ‘ddet_ind_conn_miss_rate_max’: TCP Session Miss Rate Max; ‘ddet_ind_conn_miss_rate_adaptive_threshold’: TCP Session Miss Rate Adaptive Threshold; ‘ddet_ind_concurrent_conns_current’: TCP/UDP Concurrent Sessions Current; ‘ddet_ind_concurrent_conns_min’: TCP/UDP Concurrent Sessions Min; ‘ddet_ind_concurrent_conns_max’: TCP/UDP Concurrent Sessions Max; ‘ddet_ind_concurrent_conns_adaptive_threshold’: TCP/UDP Concurrent Sessions Adaptive Threshold; ‘ddet_ind_data_cpu_util_current’: Data CPU Utilization Current; ‘ddet_ind_data_cpu_util_min’: Data CPU Utilization Min; ‘ddet_ind_data_cpu_util_max’: Data CPU Utilization Max; ‘ddet_ind_data_cpu_util_adaptive_threshold’: Data CPU Utilization Adaptive Threshold; ‘ddet_ind_outside_intf_util_current’: Outside Interface Utilization Current; ‘ddet_ind_outside_intf_util_min’: Outside Interface Utilization Min; ‘ddet_ind_outside_intf_util_max’: Outside Interface Utilization Max; ‘ddet_ind_outside_intf_util_adaptive_threshold’: Outside Interface Utilization Adaptive Threshold; ‘ddet_ind_frag_rate_current’: Frag Pkt Rate Current; ‘ddet_ind_frag_rate_min’: Frag Pkt Rate Min; ‘ddet_ind_frag_rate_max’: Frag Pkt Rate Max; ‘ddet_ind_frag_rate_adaptive_threshold’: Frag Pkt Rate Adaptive Threshold; ‘ddet_ind_bit_rate_current’: Bit Rate Current; ‘ddet_ind_bit_rate_min’: Bit Rate Min; ‘ddet_ind_bit_rate_max’: Bit Rate Max; ‘ddet_ind_bit_rate_adaptive_threshold’: Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold,

ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

port_zone-service-other-list_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

port_zone-service-other-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-other-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-other-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6

Specification	Value
Type	*list*
Block object keys	

expand-ipv6-subnet

Description Expand this subnet to individual IPv6 address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

expand-ipv6-subnet-mode

Description 'default': Default learning mechanism (Default: Dynamic); 'dynamic': Dynamic learning; 'static': Static learning;

Type: string

Supported Values: default, dynamic, static

Default: default

ip6-addr

Description Specify IPv6 address

Type: string

Format: ipv6-address

subnet-ipv6-addr

Description IPV6 Subnet

Type: string

Format: ipv6-address-plen

src-port-range-list

Specification	Value
Type	*list*
Block object keys	

capture-config

Description: capture-config is a **JSON Block**. Please see below for *src-port-range-list_capture-config*

Type: Object

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *src-port-range-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *src-port-range-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind*

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

src-port-range-end

Description Src Port-Range End Port Number

Type: number

Range: 2-65535

src-port-range-start

Description Src Port-Range Start Port Number

Type: number

Range: 1-65535

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *src-port-range-list_zone-template*

Type: Object

src-port-range-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-port-range-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

src-port-range-list_zone-template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-port-range-list_port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port-range-list_level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port-range-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the port-range

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the port-range

Type: number

Range: 1-2147483647

sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the total nu

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling. WARNING: Zone level Sflow polling might induce heavy CPU load depending on the total

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

src-port

Specification	Value
Type	*object*

zone-src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}*

zone-src-port-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}*

src-port_zone-src-port-list

Specification	Value
Type	*list*
Block object keys	

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *src-port_zone-src-port-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}*

outbound-src-tracking

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

port-ind

Description: port-ind is a **JSON Block**. Please see below for *src-port_zone-src-port-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind*

port-num

Description Source Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-udp': DNS-UDP Port; 'dns-tcp': DNS-TCP Port; 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: dns-udp, dns-tcp, udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *src-port_zone-src-port-list_zone-template*

Type: Object

src-port_zone-src-port-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

src-port_zone-src-port-list_zone-template

Specification	Value
Type	*object*

src-dns

Description DDOS dns src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-port_zone-src-port-list_port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port_zone-src-port-list_level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port_zone-src-port-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

src-port_zone-src-port-other-list

Specification	Value
Type	*list*
Block object keys	

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *src-port_zone-src-port-other-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *src-port_zone-src-port-other-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *src-port_zone-src-port-other-list_zone-template*

Type: Object

src-port_zone-src-port-other-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

src-port_zone-src-port-other-list_zone-template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-port_zone-src-port-other-list_port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port_zone-src-port-other-list_level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-port_zone-src-port-other-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

web-gui

Specification	Value
Type	*object*

activated-after-learning

Description Activate it after learning

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

create-time

Description Configure create time

Type: string

Maximum Length: 13 characters

Maximum Length: 1 characters

learning

Description: learning is a **JSON Block**. Please see below for *web-gui_learning*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/learning*

modify-time

Description Configure modify time

Type: string

Maximum Length: 13 characters

Maximum Length: 1 characters

protection

Description: protection is a **JSON Block**. Please see below for *web-gui_protection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection*

sensitivity

Description '5': Low; '3': Medium; '1.5': High;

Type: string

Supported Values: 5, 3, 1.5

Default: 3

status

Description 'newly': newly; 'learning': learning; 'learned': learned; 'activated': activated;

Type: string

Supported Values: newly, learning, learned, activated

Default: newly

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

web-gui_protection

Specification	Value
Type	*object*

ip-proto

Description: ip-proto is a **JSON Block**. Please see below for *web-gui_protection_ip-proto*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto*

port

Description: port is a **JSON Block**. Please see below for *web-gui_protection_port*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range/{port-range-start}+{port-range-end}+{protocol}*

web-gui_protection_port-range-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

web-gui_protection_port

Specification	Value
Type	*object*

zone-service-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service/{port-num}+{protocol}*

zone-service-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other/{port-other}+{protocol}*

web-gui_protection_port_zone-service-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

web-gui_protection_port_zone-service-other-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

web-gui_protection_ip-proto

Specification	Value
Type	*object*

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name/{protocol}*

web-gui_protection_ip-proto_proto-name-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6;

Type: string

Supported Values: icmp-v4, icmp-v6

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

web-gui_learning

Specification	Value
Type	*object*

duration

Description '1minute': 1 minute; '6hour': 6 hours; '12hour': 12 hours; '24hour': 24 hours; '7day': 7 days;

Type: string

Supported Values: 1minute, 6hour, 12hour, 24hour, 7day

Default: 6hour

starting-time

Description Configure learning starting time

Type: string

Maximum Length: 13 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'zone_tcp_any_exceed': TCP Dst IP-Proto Rate: Total Exceeded; 'zone_tcp_pkt_rate_exceed': TCP Dst IP-Proto Rate: Packet Exceeded; 'zone_tcp_conn_rate_exceed': TCP Dst IP-Proto Rate: Conn

Exceeded; 'zone_udp_any_exceed': UDP Dst IP-Proto Rate: Total Exceeded; 'zone_udp_pkt_rate_exceed': UDP Dst IP-Proto Rate: Packet Exceeded; 'zone_udp_conn_limit_exceed': UDP Dst IP-Proto Limit: Conn Exceeded; 'zone_udp_conn_rate_exceed': UDP Dst IP-Proto Rate: Conn Exceeded; 'zone_icmp_pkt_rate_exceed': ICMP Dst Rate: Packet Exceeded; 'zone_other_pkt_rate_exceed': OTHER Dst IP-Proto Rate: Packet Exceeded; 'zone_other_frag_pkt_rate_exceed': OTHER Dst IP-Proto Rate: Frag Exceeded; 'zone_port_pkt_rate_exceed': Port Rate: Packet Exceeded; 'zone_port_conn_limit_exceed': Port Limit: Conn Exceeded; 'zone_port_conn_rate_exceed': Port Rate: Conn Exceeded; 'zone_pkt_sent': Inbound: Packets Forwarded; 'zone_udp_pkt_sent': UDP Total Packets Forwarded; 'zone_tcp_pkt_sent': TCP Total Packets Forwarded; 'zone_icmp_pkt_sent': ICMP Total Packets Forwarded; 'zone_other_pkt_sent': OTHER Total Packets Forwarded; 'zone_tcp_conn_limit_exceed': TCP Dst IP-Proto Limit: Conn Exceeded; 'zone_tcp_pkt_rcvd': TCP Total Packets Received; 'zone_udp_pkt_rcvd': UDP Total Packets Received; 'zone_icmp_pkt_rcvd': ICMP Total Packets Received; 'zone_other_pkt_rcvd': OTHER Total Packets Received; 'zone_udp_filter_match': UDP Filter Match; 'zone_udp_filter_not_match': UDP Filter Not Matched on Pkt; 'zone_udp_filter_action_blacklist': UDP Filter Action Blacklist; 'zone_udp_filter_action_drop': UDP Filter Action Drop; 'zone_tcp_syn': TCP Total SYN Received; 'zone_tcp_syn_drop': TCP SYN Packets Dropped; 'zone_tcp_src_rate_drop': TCP Src Rate: Total Exceeded; 'zone_udp_src_rate_drop': UDP Src Rate: Total Exceeded; 'zone_icmp_src_rate_drop': ICMP Src Rate: Total Exceeded; 'zone_other_frag_src_rate_drop': OTHER Src Rate: Frag Exceeded; 'zone_other_src_rate_drop': OTHER Src Rate: Total Exceeded; 'zone_tcp_drop': TCP Total Packets Dropped; 'zone_udp_drop': UDP Total Packets Dropped; 'zone_icmp_drop': ICMP Total Packets Dropped; 'zone_frag_drop': Fragmented Packets Dropped; 'zone_other_drop': OTHER Total Packets Dropped; 'zone_tcp_auth': TCP Auth: SYN Cookie Sent; 'zone_udp_filter_action_default_pass': UDP Filter Action Default Pass; 'zone_tcp_filter_match': TCP Filter Match; 'zone_tcp_filter_not_match': TCP Filter Not Matched on Pkt; 'zone_tcp_filter_action_blacklist': TCP Filter Action Blacklist; 'zone_tcp_filter_action_drop': TCP Filter Action Drop; 'zone_tcp_filter_action_default_pass': TCP Filter Action Default Pass; 'zone_udp_filter_action_whitelist': UDP Filter Action WL; 'zone_over_limit_on': Zone overlimit Trigger ON; 'zone_over_limit_off': Zone overlimit Trigger OFF; 'zone_port_over_limit_on': Zone port overlimit Trigger ON; 'zone_port_over_limit_off': Zone port overlimit Trigger OFF; 'zone_over_limit_action': Zone overlimit action; 'zone_port_over_limit_action': Zone port overlimit action; 'scanning_detected_drop': Scanning Detected drop (deprecated); 'scanning_detected_blacklist': Scanning Detected blacklist (deprecated); 'zone_udp_kibit_rate_drop': UDP Dst IP-Proto Rate: KiBit Exceeded; 'zone_tcp_kibit_rate_drop': TCP Dst IP-Proto Rate: KiBit Exceeded; 'zone_icmp_kibit_rate_drop': ICMP Dst Rate: KiBit Exceeded; 'zone_other_kibit_rate_drop': OTHER Dst IP-Proto Rate: KiBit Exceeded; 'zone_port_undef_drop': Dst Port Undefined Dropped; 'zone_port_bl': Dst Port Blacklist Packets Dropped; 'zone_src_port_bl': Dst SrcPort Blacklist Packets Dropped; 'zone_port_kbit_rate_exceed': Port Rate: KiBit Exceeded; 'zone_tcp_src_drop': TCP Src Packets Dropped; 'zone_udp_src_drop': UDP Src Packets Dropped; 'zone_icmp_src_drop': ICMP Src Packets Dropped; 'zone_other_src_drop': OTHER Src Packets Dropped; 'tcp_syn_rcvd': TCP Inbound SYN Received; 'tcp_syn_ack_rcvd': TCP SYN ACK Received; 'tcp_ack_rcvd': TCP ACK Received; 'tcp_fin_rcvd': TCP FIN Received; 'tcp_rst_rcvd': TCP RST Received; 'ingress_bytes': Inbound: Bytes Received; 'egress_bytes': Outbound: Bytes Received; 'ingress_packets': Inbound: Packets Received; 'egress_packets': Outbound: Packets Received; 'tcp_fwd_recv': TCP Inbound Packets Received; 'udp_fwd_recv': UDP Inbound Packets Received; 'icmp_fwd_recv': ICMP Inbound Packets Received; 'tcp_syn_cookie_fail': TCP Auth: SYN Cookie Failed; 'zone_tcp_session_created': TCP Sessions Created; 'zone_udp_session_created':

UDP Sessions Created; 'zone_tcp_filter_action_whitelist': TCP Filter Action WL; 'zone_other_filter_match': OTHER Filter Match; 'zone_other_filter_not_match': OTHER Filter Not Matched on Pkt; 'zone_other_filter_action_blacklist': OTHER Filter Action Blacklist; 'zone_other_filter_action_drop': OTHER Filter Action Drop; 'zone_other_filter_action_whitelist': OTHER Filter Action WL; 'zone_other_filter_action_default_pass': OTHER Filter Action Default Pass; 'zone_blackhole_inject': Dst Blackhole Inject; 'zone_blackhole_withdraw': Dst Blackhole Withdraw; 'zone_tcp_out_of_seq_excd': TCP Out-Of-Seq Exceeded; 'zone_tcp_retransmit_excd': TCP Retransmit Exceeded; 'zone_tcp_zero_window_excd': TCP Zero-Window Exceeded; 'zone_tcp_conn_prate_excd': TCP Rate: Conn Pkt Exceeded; 'zone_tcp_action_on_ack_init': TCP Auth: ACK Retry Init; 'zone_tcp_action_on_ack_gap_drop': TCP Auth: ACK Retry Retry-Gap Dropped; 'zone_tcp_action_on_ack_fail': TCP Auth: ACK Retry Dropped; 'zone_tcp_action_on_ack_pass': TCP Auth: ACK Retry Passed; 'zone_tcp_action_on_syn_init': TCP Auth: SYN Retry Init; 'zone_tcp_action_on_syn_gap_drop': TCP Auth: SYN Retry-Gap Dropped; 'zone_tcp_action_on_syn_fail': TCP Auth: SYN Retry Dropped; 'zone_tcp_action_on_syn_pass': TCP Auth: SYN Retry Passed; 'zone_payload_too_small': UDP Payload Too Small; 'zone_payload_too_big': UDP Payload Too Large; 'zone_udp_conn_prate_excd': UDP Rate: Conn Pkt Exceeded; 'zone_udp_ntp_monlist_req': UDP NTP Monlist Request; 'zone_udp_ntp_monlist_resp': UDP NTP Monlist Response; 'zone_udp_wellknown_sport_drop': UDP SrcPort Wellknown; 'zone_udp_retry_init': UDP Auth: Retry Init; 'zone_udp_retry_pass': UDP Auth: Retry Passed; 'zone_tcp_bytes_drop': TCP Total Bytes Dropped; 'zone_udp_bytes_drop': UDP Total Bytes Dropped; 'zone_icmp_bytes_drop': ICMP Total Bytes Dropped; 'zone_other_bytes_drop': OTHER Total Bytes Dropped; 'zone_out_no_route': Dst IPv4/v6 Out No Route; 'outbound_bytes_sent': Outbound: Bytes Forwarded; 'outbound_drop': Outbound: Packets Dropped; 'outbound_bytes_drop': Outbound: Bytes Dropped; 'outbound_pkt_sent': Outbound: Packets Forwarded; 'inbound_bytes_sent': Inbound: Bytes Forwarded; 'inbound_bytes_drop': Inbound: Bytes Dropped; 'zone_src_port_pkt_rate_exceed': SrcPort Rate: Packet Exceeded; 'zone_src_port_kbit_rate_exceed': SrcPort Rate: KiBit Exceeded; 'zone_src_port_conn_limit_exceed': SrcPort Limit: Conn Exceeded; 'zone_src_port_conn_rate_exceed': SrcPort Rate: Conn Exceeded; 'zone_ip_proto_pkt_rate_exceed': IP-Proto Rate: Packet Exceeded; 'zone_ip_proto_kbit_rate_exceed': IP-Proto Rate: KiBit Exceeded; 'zone_tcp_port_any_exceed': TCP Port Rate: Total Exceed; 'zone_udp_port_any_exceed': UDP Port Rate: Total Exceed; 'zone_tcp_auth_pass': TCP Auth: SYN Auth Passed; 'zone_tcp_rst_cookie_fail': TCP Auth: RST Cookie Failed; 'zone_tcp_unauth_drop': TCP Auth: Unauth Dropped; 'src_tcp_syn_auth_fail': Src TCP Auth: SYN Auth Failed; 'src_tcp_syn_cookie_sent': Src TCP Auth: SYN Cookie Sent; 'src_tcp_syn_cookie_fail': Src TCP Auth: SYN Cookie Failed; 'src_tcp_rst_cookie_fail': Src TCP Auth: RST Cookie Failed;

Type: string

Supported Values: all, zone_tcp_any_exceed, zone_tcp_pkt_rate_exceed, zone_tcp_conn_rate_exceed, zone_udp_any_exceed, zone_udp_pkt_rate_exceed, zone_udp_conn_limit_exceed, zone_udp_conn_rate_exceed, zone_icmp_pkt_rate_exceed, zone_other_pkt_rate_exceed, zone_other_frag_pkt_rate_exceed, zone_port_pkt_rate_exceed, zone_port_conn_limit_exceed, zone_port_conn_rate_exceed, zone_pkt_sent, zone_udp_pkt_sent, zone_tcp_pkt_sent, zone_icmp_pkt_sent, zone_other_pkt_sent, zone_tcp_conn_limit_exceed, zone_tcp_pkt_rcvd, zone_udp_pkt_rcvd, zone_icmp_pkt_rcvd, zone_other_pkt_rcvd, zone_udp_filter_match, zone_udp_filter_not_match, zone_udp_filter_action_blacklist, zone_udp_filter_action_drop, zone_tcp_syn, zone_tcp_syn_drop, zone_tcp_src_rate_drop, zone_udp_src_rate_drop, zone_icmp_src_rate_drop, zone_other_frag_src_rate_drop, zone_other_src_rate_drop,

zone_tcp_drop, zone_udp_drop, zone_icmp_drop, zone_frag_drop, zone_other_drop, zone_tcp_auth, zone_udp_filter_action_default_pass, zone_tcp_filter_match, zone_tcp_filter_not_match, zone_tcp_filter_action_blacklist, zone_tcp_filter_action_drop, zone_tcp_filter_action_default_pass, zone_udp_filter_action_whitelist, zone_over_limit_on, zone_over_limit_off, zone_port_over_limit_on, zone_port_over_limit_off, zone_over_limit_action, zone_port_over_limit_action, scanning_detected_drop, scanning_detected_blacklist, zone_udp_kibit_rate_drop, zone_tcp_kibit_rate_drop, zone_icmp_kibit_rate_drop, zone_other_kibit_rate_drop, zone_port_undef_drop, zone_port_bl, zone_src_port_bl, zone_port_kbit_rate_exceed, zone_tcp_src_drop, zone_udp_src_drop, zone_icmp_src_drop, zone_other_src_drop, tcp_syn_rcvd, tcp_syn_ack_rcvd, tcp_ack_rcvd, tcp_fin_rcvd, tcp_rst_rcvd, ingress_bytes, egress_bytes, ingress_packets, egress_packets, tcp_fwd_recv, udp_fwd_recv, icmp_fwd_recv, tcp_syn_cookie_fail, zone_tcp_session_created, zone_udp_session_created, zone_tcp_filter_action_whitelist, zone_other_filter_match, zone_other_filter_not_match, zone_other_filter_action_blacklist, zone_other_filter_action_drop, zone_other_filter_action_whitelist, zone_other_filter_action_default_pass, zone_blackhole_inject, zone_blackhole_withdraw, zone_tcp_out_of_seq_excd, zone_tcp_retransmit_excd, zone_tcp_zero_window_excd, zone_tcp_conn_prate_excd, zone_tcp_action_on_ack_init, zone_tcp_action_on_ack_gap_drop, zone_tcp_action_on_ack_fail, zone_tcp_action_on_ack_pass, zone_tcp_action_on_syn_init, zone_tcp_action_on_syn_gap_drop, zone_tcp_action_on_syn_fail, zone_tcp_action_on_syn_pass, zone_payload_too_small, zone_payload_too_big, zone_udp_conn_prate_excd, zone_udp_ntp_monlist_req, zone_udp_ntp_monlist_resp, zone_udp_wellknown_sport_drop, zone_udp_retry_init, zone_udp_retry_pass, zone_tcp_bytes_drop, zone_udp_bytes_drop, zone_icmp_bytes_drop, zone_other_bytes_drop, zone_out_no_route, outbound_bytes_sent, outbound_drop, outbound_bytes_drop, outbound_pkt_sent, inbound_bytes_sent, inbound_bytes_drop, zone_src_port_pkt_rate_exceed, zone_src_port_kbit_rate_exceed, zone_src_port_conn_limit_exceed, zone_src_port_conn_rate_exceed, zone_ip_proto_pkt_rate_exceed, zone_ip_proto_kbit_rate_exceed, zone_tcp_port_any_exceed, zone_udp_port_any_exceed, zone_tcp_auth_pass, zone_tcp_rst_cookie_fail, zone_tcp_unauth_drop, src_tcp_syn_auth_fail, src_tcp_syn_cookie_sent, src_tcp_syn_cookie_fail, src_tcp_rst_cookie_fail

counters2

Description 'src_tcp_unauth_drop': Src TCP Auth: Unauth Dropped; 'src_tcp_action_on_syn_init': Src TCP Auth: SYN Retry Init; 'src_tcp_action_on_syn_gap_drop': Src TCP Auth: SYN Retry-Gap Dropped; 'src_tcp_action_on_syn_fail': Src TCP Auth: SYN Retry Dropped; 'src_tcp_action_on_ack_init': Src TCP Auth: ACK Retry Init; 'src_tcp_action_on_ack_gap_drop': Src TCP Auth: ACK Retry Retry-Gap Dropped; 'src_tcp_action_on_ack_fail': Src TCP Auth: ACK Retry Dropped; 'src_tcp_out_of_seq_excd': Src TCP Out-Of-Seq Exceeded; 'src_tcp_retransmit_excd': Src TCP Retransmit Exceeded; 'src_tcp_zero_window_excd': Src TCP Zero-Window Exceeded; 'src_tcp_conn_prate_excd': Src TCP Rate: Conn Pkt Exceeded; 'src_udp_min_payload': Src UDP Payload Too Small; 'src_udp_max_payload': Src UDP Payload Too Large; 'src_udp_conn_prate_excd': Src UDP Rate: Conn Pkt Exceeded; 'src_udp_ntp_monlist_req': Src UDP NTP Monlist Request; 'src_udp_ntp_monlist_resp': Src UDP NTP Monlist Response; 'src_udp_wellknown_sport_drop': Src UDP SrcPort Wellknown; 'src_udp_retry_init': Src UDP Auth: Retry Init; 'dst_udp_retry_gap_drop': UDP Auth: Retry-Gap Dropped; 'dst_udp_retry_fail': UDP Auth: Retry Timeout; 'dst_tcp_session_aged': TCP Sessions Aged; 'dst_udp_session_aged': UDP Sessions Aged; 'dst_tcp_conn_close': TCP Connections Closed; 'dst_tcp_conn_close_half_open': TCP Half Open Connections Closed; 'dst_drop_frag_pkt': Fragmented Pack-

ets Dropped; 'src_tcp_filter_action_blacklist': Src TCP Filter Action Blacklist; 'src_tcp_filter_action_whitelist': Src TCP Filter Action WL; 'src_tcp_filter_action_drop': Src TCP Filter Action Drop; 'src_tcp_filter_action_default_pass': Src TCP Filter Action Default Pass; 'src_udp_filter_action_blacklist': Src UDP Filter Action Blacklist; 'src_udp_filter_action_whitelist': Src UDP Filter Action WL; 'src_udp_filter_action_drop': Src UDP Filter Action Drop; 'src_udp_filter_action_default_pass': Src UDP Filter Action Default Pass; 'src_other_filter_action_blacklist': Src OTHER Filter Action Blacklist; 'src_other_filter_action_whitelist': Src OTHER Filter Action WL; 'src_other_filter_action_drop': Src OTHER Filter Action Drop; 'src_other_filter_action_default_pass': Src OTHER Filter Action Default Pass; 'tcp_invalid_syn': TCP Invalid SYN Received; 'dst_tcp_conn_close_w_rst': TCP RST Connections Closed; 'dst_tcp_conn_close_w_fin': TCP FIN Connections Closed; 'dst_tcp_conn_close_w_idle': TCP Idle Connections Closed; 'dst_tcp_conn_create_from_syn': TCP Connections Created From SYN; 'dst_tcp_conn_create_from_ack': TCP Connections Created From ACK; 'src_frag_drop': Src Fragmented Packets Dropped; 'zone_port_kbit_rate_exceed_pkt': Port Rate: KiBit Pkt Exceeded; 'dst_tcp_bytes_rcv': TCP Total Bytes Received; 'dst_udp_bytes_rcv': UDP Total Bytes Received; 'dst_icmp_bytes_rcv': ICMP Total Bytes Received; 'dst_other_bytes_rcv': OTHER Total Bytes Received; 'dst_tcp_bytes_sent': TCP Total Bytes Forwarded; 'dst_udp_bytes_sent': UDP Total Bytes Forwarded; 'dst_icmp_bytes_sent': ICMP Total Bytes Forwarded; 'dst_other_bytes_sent': OTHER Total Bytes Forwarded; 'dst_udp_auth_drop': UDP Auth: Dropped; 'dst_tcp_auth_drop': TCP Auth: Dropped; 'dst_tcp_auth_resp': TCP Auth: Responded; 'dst_drop': Inbound: Packets Dropped; 'dst_entry_pkt_rate_exceed': Entry Rate: Packet Exceeded; 'dst_entry_kbit_rate_exceed': Entry Rate: KiBit Exceeded; 'dst_entry_conn_limit_exceed': Entry Limit: Conn Exceeded; 'dst_entry_conn_rate_exceed': Entry Rate: Conn Exceeded; 'dst_entry_frag_pkt_rate_exceed': Entry Rate: Frag Packet Exceeded; 'dst_l4_tcp_blacklist_drop': Dst TCP IP-Proto Blacklist Dropped; 'dst_l4_udp_blacklist_drop': Dst UDP IP-Proto Blacklist Dropped; 'dst_l4_icmp_blacklist_drop': Dst ICMP IP-Proto Blacklist Dropped; 'dst_l4_other_blacklist_drop': Dst OTHER IP-Proto Blacklist Dropped; 'dst_frag_timeout_drop': Fragment Reassemble Timeout Drop; 'dst_icmp_any_exceed': ICMP Rate: Total Exceed; 'dst_other_any_exceed': OTHER Rate: Total Exceed; 'tcp_rexmit_syn_limit_drop': TCP SYN Retransmit Exceeded Drop; 'tcp_rexmit_syn_limit_bl': TCP SYN Retransmit Exceeded Blacklist; 'dst_clist_overflow_policy_at_learning': Dst Src-Based Overflow Policy Hit; 'zone_frag_rcvd': Fragmented Packets Received; 'zone_tcp_wellknown_sport_drop': TCP SrcPort Wellknown; 'src_tcp_wellknown_sport_drop': Src TCP SrcPort Wellknown; 'secondary_dst_entry_pkt_rate_exceed': Per Addr Rate: Packet Exceeded; 'secondary_dst_entry_kbit_rate_exceed': Per Addr Rate: KiBit Exceeded; 'secondary_dst_entry_conn_limit_exceed': Per Addr Limit: Conn Exceeded; 'secondary_dst_entry_conn_rate_exceed': Per Addr Rate: Conn Exceeded; 'secondary_dst_entry_frag_pkt_rate_exceed': Per Addr Rate: Frag Packet Exceeded; 'src_udp_retry_gap_drop': Src UDP Auth: Retry-Gap Dropped; 'dst_entry_kbit_rate_exceed_count': Entry Rate: KiBit Exceeded Count; 'secondary_entry_learn': Per Addr Entry Learned; 'secondary_entry_hit': Per Addr Entry Hit; 'secondary_entry_miss': Per Addr Entry Missed; 'secondary_entry_aged': Per Addr Entry Aged; 'secondary_entry_learning_thre_exceed': Per Addr Entry Count Overflow; 'zone_port_undef_hit': Dst Port undefined Hit; 'zone_tcp_action_on_ack_timeout': TCP Auth: ACK Retry Timeout; 'zone_tcp_action_on_ack_reset': TCP Auth: ACK Retry Timeout Reset; 'zone_tcp_action_on_ack_blacklist': TCP Auth: ACK Retry Timeout Blacklisted; 'src_tcp_action_on_ack_timeout': Src TCP Auth: ACK Retry Timeout; 'src_tcp_action_on_ack_reset': Src TCP Auth: ACK Retry Timeout Reset; 'src_tcp_action_on_ack_blacklist': Src TCP Auth: ACK Retry Timeout Blacklisted; 'zone_tcp_action_on_syn_timeout':

TCP Auth: SYN Retry Timeout; 'zone_tcp_action_on_syn_reset': TCP Auth: SYN Retry Timeout Reset; 'zone_tcp_action_on_syn_blacklist': TCP Auth: SYN Retry Timeout Blacklisted; 'src_tcp_action_on_syn_timeout': Src TCP Auth: SYN Retry Timeout; 'src_tcp_action_on_syn_reset': Src TCP Auth: SYN Retry Timeout Reset; 'src_tcp_action_on_syn_blacklist': Src TCP Auth: SYN Retry Timeout Blacklisted; 'zone_udp_frag_pkt_rate_exceed': UDP Dst IP-Proto Rate: Frag Exceeded; 'zone_udp_frag_src_rate_drop': UDP Src Rate: Frag Exceeded; 'zone_tcp_frag_pkt_rate_exceed': TCP Dst IP-Proto Rate: Frag Exceeded; 'zone_tcp_frag_src_rate_drop': TCP Src Rate: Frag Exceeded; 'zone_icmp_frag_pkt_rate_exceed': ICMP Dst IP-Proto Rate: Frag Exceeded; 'zone_icmp_frag_src_rate_drop': ICMP Src Rate: Frag Exceeded; 'sflow_internal_samples_packed': Sflow Internal Samples Packed; 'sflow_external_samples_packed': Sflow External Samples Packed; 'sflow_internal_packets_sent': Sflow Internal Packets Sent; 'sflow_external_packets_sent': Sflow External Packets Sent; 'dns_outbound_total_query': DNS Outbound Total Query; 'dns_outbound_query_malformed': DNS Outbound Query Malformed; 'dns_outbound_query_resp_chk_failed': DNS Outbound Query Resp Check Failed; 'dns_outbound_query_resp_chk_blacklisted': DNS Outbound Query Resp Check Blacklisted; 'dns_outbound_query_resp_chk_refused_sent': DNS Outbound Query Resp Check REFUSED Sent; 'dns_outbound_query_resp_chk_reset_sent': DNS Outbound Query Resp Check RESET Sent; 'dns_outbound_query_resp_chk_no_resp_sent': DNS Outbound Query Resp Check No Response Sent; 'dns_outbound_query_resp_size_exceed': DNS Outbound Query Response Size Exceed; 'dns_outbound_query_sess_timed_out': DNS Outbound Query Session Timed Out; 'source_entry_total': Source Entry Total Count; 'source_entry_udp': Source Entry UDP Count; 'source_entry_tcp': Source Entry TCP Count; 'source_entry_icmp': Source Entry ICMP Count; 'source_entry_other': Source Entry OTHER Count; 'dst_exceed_action_tunnel': Entry Exceed Action: Tunnel;

Type: string

Supported Values: src_tcp_unauth_drop, src_tcp_action_on_syn_init, src_tcp_action_on_syn_gap_drop, src_tcp_action_on_syn_fail, src_tcp_action_on_ack_init, src_tcp_action_on_ack_gap_drop, src_tcp_action_on_ack_fail, src_tcp_out_of_seq_excd, src_tcp_retransmit_excd, src_tcp_zero_window_excd, src_tcp_conn_prate_excd, src_udp_min_payload, src_udp_max_payload, src_udp_conn_prate_excd, src_udp_ntp_monlist_req, src_udp_ntp_monlist_resp, src_udp_wellknown_sport_drop, src_udp_retry_init, dst_udp_retry_gap_drop, dst_udp_retry_fail, dst_tcp_session_aged, dst_udp_session_aged, dst_tcp_conn_close, dst_tcp_conn_close_half_open, dst_drop_frag_pkt, src_tcp_filter_action_blacklist, src_tcp_filter_action_whitelist, src_tcp_filter_action_drop, src_tcp_filter_action_default_pass, src_udp_filter_action_blacklist, src_udp_filter_action_whitelist, src_udp_filter_action_drop, src_udp_filter_action_default_pass, src_other_filter_action_blacklist, src_other_filter_action_whitelist, src_other_filter_action_drop, src_other_filter_action_default_pass, tcp_invalid_syn, dst_tcp_conn_close_w_rst, dst_tcp_conn_close_w_fin, dst_tcp_conn_close_w_idle, dst_tcp_conn_create_from_syn, dst_tcp_conn_create_from_ack, src_frag_drop, zone_port_kbit_rate_exceed_pkt, dst_tcp_bytes_rcv, dst_udp_bytes_rcv, dst_icmp_bytes_rcv, dst_other_bytes_rcv, dst_tcp_bytes_sent, dst_udp_bytes_sent, dst_icmp_bytes_sent, dst_other_bytes_sent, dst_udp_auth_drop, dst_tcp_auth_drop, dst_tcp_auth_resp, dst_drop, dst_entry_pkt_rate_exceed, dst_entry_kbit_rate_exceed, dst_entry_conn_limit_exceed, dst_entry_conn_rate_exceed, dst_entry_frag_pkt_rate_exceed, dst_l4_tcp_blacklist_drop, dst_l4_udp_blacklist_drop, dst_l4_icmp_blacklist_drop, dst_l4_other_blacklist_drop, dst_frag_timeout_drop, dst_icmp_any_exceed, dst_other_any_exceed, tcp_rexmit_syn_limit_drop, tcp_rexmit_syn_limit_bl, dst_clist_overflow_policy_at_learning, zone_frag_rcvd, zone_tcp_wellknown_sport_drop,

src_tcp_wellknown_sport_drop, secondary_dst_entry_pkt_rate_exceed, secondary_dst_entry_kbit_rate_exceed, secondary_dst_entry_conn_limit_exceed, secondary_dst_entry_conn_rate_exceed, secondary_dst_entry_frag_pkt_rate_exceed, src_udp_retry_gap_drop, dst_entry_kbit_rate_exceed_count, secondary_entry_learn, secondary_entry_hit, secondary_entry_miss, secondary_entry_aged, secondary_entry_learning_thre_exceed, zone_port_undef_hit, zone_tcp_action_on_ack_timeout, zone_tcp_action_on_ack_reset, zone_tcp_action_on_ack_blacklist, src_tcp_action_on_ack_timeout, src_tcp_action_on_ack_reset, src_tcp_action_on_ack_blacklist, zone_tcp_action_on_syn_timeout, zone_tcp_action_on_syn_reset, zone_tcp_action_on_syn_blacklist, src_tcp_action_on_syn_timeout, src_tcp_action_on_syn_reset, src_tcp_action_on_syn_blacklist, zone_udp_frag_pkt_rate_exceed, zone_udp_frag_src_rate_drop, zone_tcp_frag_pkt_rate_exceed, zone_tcp_frag_src_rate_drop, zone_icmp_frag_pkt_rate_exceed, zone_icmp_frag_src_rate_drop, sflow_internal_samples_packed, sflow_external_samples_packed, sflow_internal_packets_sent, sflow_external_packets_sent, dns_outbound_total_query, dns_outbound_query_malformed, dns_outbound_query_resp_chk_failed, dns_outbound_query_resp_chk_blacklisted, dns_outbound_query_resp_chk_refused_sent, dns_outbound_query_resp_chk_reset_sent, dns_outbound_query_resp_chk_no_resp_sent, dns_outbound_query_resp_size_exceed, dns_outbound_query_sess_timed_out, source_entry_total, source_entry_udp, source_entry_tcp, source_entry_icmp, source_entry_other, dst_exceed_action_tunnel

counters3

Description 'dst_udp_retry_timeout_blacklist': UDP Auth: Retry Timeout Blacklisted; 'src_udp_auth_timeout': Src UDP Auth: Retry Timeout; 'zone_src_udp_retry_timeout_blacklist': Src UDP Auth: Retry Timeout Blacklisted; 'src_udp_retry_pass': Src UDP Retry Passed; 'secondary_port_learn': Per Addr Port Learned; 'secondary_port_aged': Per Addr Port Aged; 'dst_entry_outbound_udp_session_created': Outbound: UDP Sessions Created; 'dst_entry_outbound_udp_session_aged': Outbound: UDP Sessions Aged; 'dst_entry_outbound_tcp_session_created': Outbound: TCP Sessions Created; 'dst_entry_outbound_tcp_session_aged': Outbound: TCP Sessions Aged; 'dst_entry_outbound_pkt_rate_exceed': Outbound Rate: Packet Exceeded; 'dst_entry_outbound_kbit_rate_exceed': Outbound Rate: KiBit Exceeded; 'dst_entry_outbound_kbit_rate_exceed_count': Outbound Rate: KiBit Exceeded Count; 'dst_entry_outbound_conn_limit_exceed': Outbound Limit: Conn Exceeded; 'dst_entry_outbound_conn_rate_exceed': Outbound Rate: Conn Exceeded; 'dst_entry_outbound_frag_pkt_rate_exceed': Outbound Rate: Frag Packet Exceeded; 'prog_first_req_time_exceed': Req-Resp: First Request Time Exceed; 'prog_req_resp_time_exceed': Req-Resp: Request to Response Time Exceed; 'prog_request_len_exceed': Req-Resp: Request Length Exceed; 'prog_response_len_exceed': Req-Resp: Response Length Exceed; 'prog_resp_req_ratio_exceed': Req-Resp: Response to Request Ratio Exceed; 'prog_resp_req_time_exceed': Req-Resp: Response to Request Time Exceed; 'entry_sync_message_received': Entry Sync Message Received; 'entry_sync_message_sent': Entry Sync Message Sent; 'prog_conn_sent_exceed': Connection: Sent Exceed; 'prog_conn_rcvd_exceed': Connection: Received Exceed; 'prog_conn_time_exceed': Connection: Time Exceed; 'prog_conn_rcvd_sent_ratio_exceed': Connection: Reveived to Sent Ratio Exceed; 'prog_win_sent_exceed': Time Window: Sent Exceed; 'prog_win_rcvd_exceed': Time Window: Received Exceed; 'prog_win_rcvd_sent_ratio_exceed': Time Window: Received to Sent Exceed; 'prog_exceed_drop': Req-Resp: Violation Exceed Dropped; 'prog_exceed_bl': Req-Resp: Violation Exceed Blacklisted; 'prog_conn_exceed_drop': Connection: Violation Exceed Dropped; 'prog_conn_exceed_bl': Connection: Violation Exceed Blacklisted; 'prog_win_exceed_drop': Time Window: Violation Exceed Dropped; 'prog_win_exceed_bl':

Time Window: Violation Exceed Blacklisted; 'east_west_inbound_rcv_pkt': East West: Inbound Packets Received; 'east_west_inbound_drop_pkt': East West: Inbound Packets Dropped; 'east_west_inbound_fwd_pkt': East West: Inbound Packets Forwarded; 'east_west_inbound_rcv_byte': East West: Inbound Bytes Received; 'east_west_inbound_drop_byte': East West: Inbound Bytes Dropped; 'east_west_inbound_fwd_byte': East West: Inbound Bytes Forwarded; 'east_west_outbound_rcv_pkt': East West: Outbound Packets Received; 'east_west_outbound_drop_pkt': East West: Outbound Packets Dropped; 'east_west_outbound_fwd_pkt': East West: Outbound Packets Forwarded; 'east_west_outbound_rcv_byte': East West: Outbound Bytes Received; 'east_west_outbound_drop_byte': East West: Outbound Bytes Dropped; 'east_west_outbound_fwd_byte': East West: Outbound Bytes Forwarded; 'dst_exceed_action_drop': Entry Exceed Action: Dropped; 'prog_conn_samples': Sample Collected: Connection; 'prog_req_samples': Sample Collected: Req-Resp; 'prog_win_samples': Sample Collected: Time Window; 'victim_ip_learned': Victim Identification: IP Entry Learned; 'victim_ip_aged': Victim Identification: IP Entry Aged;

Type: string

Supported Values: dst_udp_retry_timeout_blacklist, src_udp_auth_timeout, zone_src_udp_retry_timeout_blacklist, src_udp_retry_pass, secondary_port_learn, secondary_port_aged, dst_entry_outbound_udp_session_created, dst_entry_outbound_udp_session_aged, dst_entry_outbound_tcp_session_created, dst_entry_outbound_tcp_session_aged, dst_entry_outbound_pkt_rate_exceed, dst_entry_outbound_kbit_rate_exceed, dst_entry_outbound_kbit_rate_exceed_count, dst_entry_outbound_conn_limit_exceed, dst_entry_outbound_conn_rate_exceed, dst_entry_outbound_frag_pkt_rate_exceed, prog_first_req_time_exceed, prog_req_resp_time_exceed, prog_request_len_exceed, prog_response_len_exceed, prog_resp_pkt_rate_exceed, prog_resp_req_time_exceed, entry_sync_message_received, entry_sync_message_sent, prog_conn_sent_exceed, prog_conn_rcvd_exceed, prog_conn_time_exceed, prog_conn_rcvd_sent_ratio_exceed, prog_win_sent_exceed, prog_win_rcvd_exceed, prog_win_rcvd_sent_ratio_exceed, prog_exceed_drop, prog_exceed_bl, prog_conn_exceed_drop, prog_conn_exceed_bl, prog_win_exceed_drop, prog_win_exceed_bl, east_west_inbound_rcv_pkt, east_west_inbound_drop_pkt, east_west_inbound_fwd_pkt, east_west_inbound_rcv_byte, east_west_inbound_drop_byte, east_west_inbound_fwd_byte, east_west_outbound_rcv_pkt, east_west_outbound_drop_pkt, east_west_outbound_fwd_pkt, east_west_outbound_rcv_byte, east_west_outbound_drop_byte, east_west_outbound_fwd_byte, dst_exceed_action_drop, dst_src_learn_overflow, dst_tcp_auth_rst, prog_query_exceed, prog_think_exceed, prog_conn_samples, prog_req_samples, prog_win_samples, victim_ip_learned, victim_ip_aged, prog_conn_samples_processed, prog_req_samples_processed, prog_win_samples_processed, token_auth_mismatched_packets, token_auth_invalid_packets, token_auth_current_salt_matched, token_auth_previous_salt_matched, token_auth_session_created, token_auth_session_created_fail, tcp_invalid_synack, zone_tcp_small_window_excd, src_tcp_small_window_excd, small_window_rcv, multi_pu_src_hash_pu1, multi_pu_src_hash_pu2

enable-top-k

Specification	Value
Type	*list*
Block object keys	

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-type

Description 'destination': Topk destination IP;

Type: string

Supported Values: destination

2.33.149 ddos dst zone capture-config

Specify packet capture-config

capture-config Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*capture-config-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/capture-config
Element Name	capture-config
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/capture-config/{name}
Element Attributes	capture-config_attributes
Partition Visibility	shared
Schema	`capture-config schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/capture-config

capture-config attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/capture-config

capture-config attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/capture-config/{name}

capture-config attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/capture-config

capture-config-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/capture-config/{name}

capture-config attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/capture-config/{name}

capture-config attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/capture-config

capture-config-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/capture-config/{name}

capture-config attributes

capture-config-list

capture-config-list is **JSON List** of *capture-config attributes*

capture-config-list : [

{ *capture-config attributes* },

{ *capture-config attributes* },

...

]

capture-config attributes

mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/capture-config*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.150 ddos dst zone detection

DDOS Detection

detection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	detection
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection
Element Attributes	detection_attributes
Partition Visibility	shared
Schema	`detection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection

detection attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection

detection attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection

detection attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection

detection attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/detection

detection attributes

detection attributes

notification

Description: notification is a **JSON Block**. Please see below for *notification*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/notification*

outbound-detection

Description: outbound-detection is a **JSON Block**. Please see below for *outbound-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection*

packet-anomaly-detection

Description: packet-anomaly-detection is a **JSON Block**. Please see below for *packet-anomaly-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection*

service-discovery

Description: service-discovery is a **JSON Block**. Please see below for *service-discovery*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery*

settings

Description 'settings': settings;

Type: string

Supported Values: settings

toggle

Description 'enable': Enable detection; 'disable': Disable detection;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

victim-ip-detection

Description: victim-ip-detection is a **JSON Block**. Please see below for *victim-ip-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection*

packet-anomaly-detection

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator/{type}*

toggle

Description 'enable': Enable packet anomaly; 'disable': Disable packet anomaly;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-anomaly-detection_indicator-list

Specification	Value
Type	*list*
Block object keys	

threshold-num

Description Threshold for each indicator

Type: number

Range: 1-65535

Default: 100

type

Description 'port-zero-pkt-rate': Port Zero Packet Rate (default 100 packet per second);

Type: string

Supported Values: port-zero-pkt-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

victim-ip-detection

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

histogram-toggle

Description 'histogram-enable': Enable histogram statistics of victim IP detection; 'histogram-disable': Disable histogram statistics of victim IP detection;

Type: string

Supported Values: histogram-enable, histogram-disable

Default: histogram-disable

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator/{type}*

toggle

Description 'enable': Enable victim IP detection; 'disable': Disable victim IP detection;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

victim-ip-detection_indicator-list

Specification	Value
Type	*list*
Block object keys	

ip-threshold-num

Description Threshold for IP

Type: number

Range: 1-2147483647

type

Description 'pkt-rate': rate of incoming packets; 'reverse-pkt-rate': rate of reverse coming packets; 'fwd-byte-rate': rate of incoming bytes; 'rev-byte-rate': rate of reverse coming bytes;

Type: string

Supported Values: pkt-rate, reverse-pkt-rate, fwd-byte-rate, rev-byte-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

notification

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

notification

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

notification_notification

Specification	Value
Type	*list*
Block object keys	

notification-template-name

Description Specify the notification template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/notification-template*

service-discovery

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

pkt-rate-threshold

Description packet rate threshold for discovery (default 10 packets per second)

Type: number

Range: 1-255

Default: 10

toggle

Description 'enable': Enable service discovery; 'disable': Disable service discovery;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound-detection

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

discovery-method

Description 'asn': Autonomous Systems number; 'country': Country;

Type: string

Supported Values: asn, country

discovery-record

Description Maximum number of top locations

Type: number

Range: 1-100

Default: 10

enable-top-k

Type: List

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator/{type}*

toggle

Description 'enable': Enable outbound detection; 'disable': Disable outbound detection;

Type: string

Supported Values: enable, disable

Default: disable

topk-source-subnet

Description: topk-source-subnet is a **JSON Block**. Please see below for *outbound-detection_topk-source-subnet*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound-detection_topk-source-subnet

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

outbound-detection_enable-top-k

Specification	Value
Type	*list*
Block object keys	

topk-netmask

Description Subnet mask. The value should be less than or equal to the minimum zone subnet mask + 8 (IPv6 Subnet mask)

Type: number

Range: 1-128

Default: 128

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-type

Description 'source-subnet': Topk source subnet;

Type: string

Supported Values: source-subnet

outbound-detection_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

threshold-large-num

Description Threshold for each geo-location

Type: number

Range: 1-10995116277760

threshold-num

Description Threshold for each geo-location

Type: number

Range: 1-2147483647

threshold-str

Description Threshold for each geo-location (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, syn-rate, fin-rate, rst-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.151 ddos dst zone detection notification

DDOS Detection Notification

notification Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	notification
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/notification
Element Attributes	notification_attributes
Partition Visibility	shared
Schema	`notification schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/notification

notification attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/notification

notification attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/notification

notification attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/notification

notification attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/detection/notification

notification attributes

notification attributes

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

notification

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

notification

Specification	Value
Type	*list*
Block object keys	

notification-template-name

Description Specify the notification template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/notification-template*

2.33.152 ddos dst zone detection outbound-detection

DDOS Outbound Detection

outbound-detection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	outbound-detection
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection
Element Attributes	outbound-detection_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/oper
Schema	`outbound-detection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection

outbound-detection attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection

outbound-detection attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection

outbound-detection attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection

outbound-detection attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection

outbound-detection attributes

outbound-detection attributes

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

discovery-method

Description 'asn': Autonomous Systems number; 'country': Country;

Type: string

Supported Values: asn, country

discovery-record

Description Maximum number of top locations

Type: number

Range: 1-100

Default: 10

enable-top-k

Type: List

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator/{type}*

toggle

Description 'enable': Enable outbound detection; 'disable': Disable outbound detection;

Type: string

Supported Values: enable, disable

Default: disable

topk-source-subnet

Description: topk-source-subnet is a **JSON Block**. Please see below for *topk-source-subnet*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

topk-source-subnet

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

enable-top-k

Specification	Value
Type	*list*
Block object keys	

topk-netmask

Description Subnet mask. The value should be less than or equal to the minimum zone subnet mask + 8 (IPv6 Subnet mask)

Type: number

Range: 1-128

Default: 128

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-type

Description 'source-subnet': Topk source subnet;

Type: string

Supported Values: source-subnet

indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

threshold-large-num

Description Threshold for each geo-location

Type: number

Range: 1-10995116277760

threshold-num

Description Threshold for each geo-location

Type: number

Range: 1-2147483647

threshold-str

Description Threshold for each geo-location (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, syn-rate, fin-rate, rst-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.153 ddos dst zone detection outbound-detection indicator

Outbound indicator configuration

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator/{type}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator/{type}

indicator attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator/{type}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator/{type}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/indicator/{type}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

indicator-list : [

{ *indicator attributes* },

{ *indicator attributes* },

...

]

indicator attributes

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

threshold-large-num

Description Threshold for each geo-location

Type: number

Range: 1-10995116277760

threshold-num

Description Threshold for each geo-location

Type: number

Range: 1-2147483647

threshold-str

Description Threshold for each geo-location (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, syn-rate, fin-rate, rst-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.154 ddos dst zone detection outbound-detection oper

Operational Status for the object outbound-detection

outbound-detection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	outbound-detection
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/oper
Element Attributes	outbound-detection_attributes
Partition Visibility	None
Schema	`outbound-detection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/oper

outbound-detection attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/oper

outbound-detection attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/oper

outbound-detection attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/oper

outbound-detection attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/oper

outbound-detection attributes

outbound-detection attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

topk-source-subnet

Description: topk-source-subnet is a **JSON Block**. Please see below for *topk-source-subnet*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet*

oper

Specification	Value
Type	*object*

discovery-timestamp

Description

Type: string

entry-list

Type: List

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

anomaly

Description

Type: string

anomaly-timestamp

Description

Type: string

data-source

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

location-name

Description

Type: string

location-type

Description

Type: string

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

adaptive-threshold

Description

Type: string

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

non-zero-minimum

Description

Type: string

rate

Description

Type: string

topk-source-subnet

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-source-subnet_oper*

Type: Object

topk-source-subnet_oper

Specification	Value
Type	*object*

entry-list

Type: List

topk-source-subnet_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

indicators

Type: List

location-name

Description

Type: string

location-type

Description

Type: string

topk-source-subnet_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

source-subnets

Type: List

topk-source-subnet_oper_entry-list_indicators_source-subnets

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.155 ddos dst zone detection outbound-detection topk-source-subnet

DDos dst zone outbound detection top src subnet

topk-source-subnet Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-source-subnet
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet
Element Attributes	topk-source-subnet_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet/oper
Schema	`topk-source-subnet schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet

topk-source-subnet attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet

topk-source-subnet attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet

topk-source-subnet attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet

topk-source-subnet attributes

topk-source-subnet attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.156 ddos dst zone detection outbound-detection topk-source-subnet oper

Operational Status for the object topk-source-subnet

topk-source-subnet Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-source-subnet
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet/oper
Element Attributes	topk-source-subnet_attributes
Partition Visibility	None
Schema	`topk-source-subnet schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet/oper

topk-source-subnet attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet/oper

topk-source-subnet attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet/oper

topk-source-subnet attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet/oper

topk-source-subnet attributes

topk-source-subnet attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

entry-list

Type: List

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

indicators

Type: List

location-name

Description

Type: string

location-type

Description

Type: string

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

source-subnets

Type: List

oper_entry-list_indicators_source-subnets

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.157 ddos dst zone detection packet-anomaly-detection

DDos Packet Anomaly detections

packet-anomaly-detection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	packet-anomaly-detection
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection
Element Attributes	packet-anomaly-detection_attributes
Partition Visibility	shared
Schema	`packet-anomaly-detection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection

packet-anomaly-detection attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection

packet-anomaly-detection attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection

packet-anomaly-detection attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection

packet-anomaly-detection attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection

packet-anomaly-detection attributes

packet-anomaly-detection attributes

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator/{type}*

toggle

Description 'enable': Enable packet anomaly; 'disable': Disable packet anomaly;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

threshold-num

Description Threshold for each indicator

Type: number

Range: 1-65535

Default: 100

type

Description 'port-zero-pkt-rate': Port Zero Packet Rate (default 100 packet per second);

Type: string

Supported Values: port-zero-pkt-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.158 ddos dst zone detection packet-anomaly-detection indicator

Packet Anomaly indicator configuration

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator/{type}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator/{type}

indicator attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator/{type}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator/{type}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/detection/packet-anomaly-detection/indicator/{type}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

indicator-list : [

{ *indicator attributes* },

{ *indicator attributes* },

...

]

indicator attributes

threshold-num

Description Threshold for each indicator

Type: number

Range: 1-65535

Default: 100

type

Description 'port-zero-pkt-rate': Port Zero Packet Rate (default 100 packet per second);

Type: string

Supported Values: port-zero-pkt-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.159 ddos dst zone detection service-discovery

Service discovery Configuration

service-discovery Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	service-discovery
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery
Element Attributes	service-discovery_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery/oper
Schema	`service-discovery schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery

service-discovery attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery

service-discovery attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery

service-discovery attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery

service-discovery attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery

service-discovery attributes

service-discovery attributes

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

pkt-rate-threshold

Description packet rate threshold for discovery (default 10 packets per second)

Type: number

Range: 1-255

Default: 10

toggle

Description 'enable': Enable service discovery; 'disable': Disable service discovery;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.160 ddos dst zone detection service-discovery oper

Operational Status for the object service-discovery

service-discovery Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	service-discovery
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery/oper
Element Attributes	service-discovery_attributes
Partition Visibility	None
Schema	`service-discovery schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery/oper

service-discovery attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery/oper

service-discovery attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery/oper

service-discovery attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery/oper

service-discovery attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/detection/service-discovery/oper

service-discovery attributes

service-discovery attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

discovered-service-list

Type: List

oper_discovered-service-list

Specification	Value
Type	*list*
Block object keys	

port

Description

Type: number

protocol

Description

Type: string

rate

Description

Type: number

2.33.161 ddos dst zone detection victim-ip-detection

DDos Host Detections configuration

victim-ip-detection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	victim-ip-detection
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection
Element Attributes	victim-ip-detection_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/oper
Schema	`victim-ip-detection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection

victim-ip-detection attributes

```
POST /axapi/v3/ddos/dst/zone/a/detection/victim-ip-detection
Payload:
{
    "victim-ip-detection": {
        "configuration": "configuration",
```

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```
        "toggle": "enable"
    }
}
```

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection

victim-ip-detection attributes

```
GET /axapi/v3/ddos/dst/zone/a/detection/victim-ip-detection
Reponse:
{
    "victim-ip-detection": {
        "configuration": "configuration",
        "toggle": "enable",
        "histogram-toggle": "histogram-disable",
        "uuid": "e194a4ea-0864-11f0-bc03-3dc8e3bd18dc",
        "a10-url": "/axapi/v3/ddos/dst/zone/a/detection/victim-ip-detection"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection

victim-ip-detection attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection

victim-ip-detection attributes

```
PUT /axapi/v3/ddos/dst/zone/a/detection/victim-ip-detection
Payload:
{
    "victim-ip-detection": {
        "configuration": "configuration"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection

victim-ip-detection attributes

```
DELETE /axapi/v3/ddos/dst/zone/a/detection/victim-ip-detection
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

victim-ip-detection attributes

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

histogram-toggle

Description 'histogram-enable': Enable histogram statistics of victim IP detection; 'histogram-disable': Disable histogram statistics of victim IP detection;

Type: string

Supported Values: histogram-enable, histogram-disable

Default: histogram-disable

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator/{type}*

toggle

Description 'enable': Enable victim IP detection; 'disable': Disable victim IP detection;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

ip-threshold-num

Description Threshold for IP

Type: number

Range: 1-2147483647

type

Description 'pkt-rate': rate of incoming packets; 'reverse-pkt-rate': rate of reverse coming packets; 'fwd-byte-rate': rate of incoming bytes; 'rev-byte-rate': rate of reverse coming bytes;

Type: string

Supported Values: pkt-rate, reverse-pkt-rate, fwd-byte-rate, rev-byte-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.162 ddos dst zone detection victim-ip-detection indicator

DDos Host Detections configuration

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator/{type}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator/{type}

indicator attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator/{type}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator/{type}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/indicator/{type}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

```
indicator-list : [
        { indicator attributes },
        { indicator attributes },
        ...
    ]
```

indicator attributes

ip-threshold-num

Description Threshold for IP

Type: number

Range: 1-2147483647

type

Description 'pkt-rate': rate of incoming packets; 'reverse-pkt-rate': rate of reverse coming packets; 'fwd-byte-rate': rate of incoming bytes; 'rev-byte-rate': rate of reverse coming bytes;

Type: string

Supported Values: pkt-rate, reverse-pkt-rate, fwd-byte-rate, rev-byte-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.163 ddos dst zone detection victim-ip-detection oper

Operational Status for the object victim-ip-detection

victim-ip-detection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	victim-ip-detection
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/oper
Element Attributes	victim-ip-detection_attributes
Partition Visibility	None
Schema	`victim-ip-detection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/oper

victim-ip-detection attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/oper

victim-ip-detection attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/oper

victim-ip-detection attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/oper

victim-ip-detection attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/detection/victim-ip-detection/oper

victim-ip-detection attributes

victim-ip-detection attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

active-list

Description

Type: boolean

Supported Values: true, false, 1, 0

ip-entry-count

Description

Type: number

ip-entry-list

Type: List

ipv4-ip

Description

Type: string

Format: ipv4-address

ipv6-ip

Description

Type: string

Format: ipv6-address

total-ip-entry-count

Description

Type: number

victim-list

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ip-entry-list

Specification	Value
Type	*list*
Block object keys	

de-escalation-timestamp

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

ip-address-str

Description

Type: string

is-histogram-learning-done

Description

Type: number

is-ip-anomaly

Description

Type: number

is-learning-done

Description

Type: number

is_static_threshold

Description

Type: number

oper_ip-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

is-anomaly

Description

Type: number

value

Type: List

oper_ip-entry-list_indicators_value

Specification	Value
Type	*list*
Block object keys	

current

Description

Type: string

threshold

Description

Type: string

2.33.164 ddos dst zone hw-blacklist-blocking

Hardware blacklist blocking over threshold

hw-blacklist-blocking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	hw-blacklist-blocking
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/hw-blacklist-blocking
Element Attributes	hw-blacklist-blocking_attributes
Partition Visibility	shared
Schema	`hw-blacklist-blocking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

```
POST /axapi/v3/ddos/dst/zone/a/hw-blacklist-blocking
Payload:
{
    "hw-blacklist-blocking": {
        "dst-enable": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

hw-blacklist-blocking attributes

dst-enable

Description Enable Dst side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-enable

Description Enable Src side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.165 ddos dst zone ip-proto

DDOS IP protocol configuration

ip-proto Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	ip-proto
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto
Element Attributes	ip-proto_attributes
Partition Visibility	shared
Schema	`ip-proto schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto

ip-proto_attributes

ip-proto attributes

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}*

proto-number-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}*

proto-tcp-udp-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}*

proto-number-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deny

Description Blacklist and Drop all incoming packets for this ip-proto

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

esp-inspect

Description: esp-inspect is a **JSON Block**. Please see below for *proto-number-list_esp-inspect*

Type: Object

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *proto-number-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *proto-number-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

port-ind

Description: port-ind is a **JSON Block**. Please see below for *proto-number-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *proto-number-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking*

protocol-num

Description Protocol Number

Type: number

Range: 0-255

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *proto-number-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *proto-number-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-number-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-number-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *proto-number-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

proto-number-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

proto-number-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

proto-number-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *proto-number-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

proto-number-list_level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

proto-number-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

proto-number-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *proto-number-list_manual-mode-list_zone-template*

Type: Object

proto-number-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

proto-number-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-number-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid, glid, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *proto-number-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

proto-number-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

proto-number-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

proto-number-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *proto-number-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

proto-number-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

proto-number-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-number-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP

Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current,

ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

proto-number-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-number-list_esp-inspect

Specification	Value
Type	*object*

auth-algorithm

Description 'AUTH_NULL': No Integrity Check Value; 'HMAC-SHA-1-96': 96 bit Auth Algo; 'HMAC-SHA-256-96': 96 bit Auth Algo; 'HMAC-SHA-256-128': 128 bit Auth Algo; 'HMAC-SHA-384-192': 192 bit Auth Algo; 'HMAC-SHA-512-256': 256 bit Auth Algo; 'HMAC-MD5-96': 96 bit Auth Algo; 'MAC-RIPEMD-160-96': 96 bit Auth Algo;

Type: string

Supported Values: AUTH_NULL, HMAC-SHA-1-96, HMAC-SHA-256-96, HMAC-SHA-256-128, HMAC-SHA-384-192, HMAC-SHA-512-256, HMAC-MD5-96, MAC-RIPEMD-160-96

encrypt-algorithm

Description 'NULL': Null Encryption Algorithm;

Type: string

Supported Values: NULL

mode

Description 'transport': Transport mode;

Type: string

Supported Values: transport

proto-number-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-number-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-name-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deny

Description Blacklist and Drop all incoming packets for ip-proto icmp-v4

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *proto-name-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *proto-name-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics*

key-cfg

Type: List

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

port-ind

Description: port-ind is a **JSON Block**. Please see below for *proto-name-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *proto-name-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking*

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6; 'other': ip-proto other; 'gre': ip-proto gre; 'ipv4-encap': ip-proto IPv4 Encapsulation; 'ipv6-encap': ip-proto IPv6 Encapsulation;

Type: string

Supported Values: icmp-v4, icmp-v6, other, gre, ipv4-encap, ipv6-encap

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *proto-name-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *proto-name-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources*

tunnel-decap

Description Enable tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-rate-limit

Description Enable DDOS-protection on tunnel traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-name-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-name-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *proto-name-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

proto-name-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

proto-name-list_key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

proto-name-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

proto-name-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *proto-name-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

proto-name-list_level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

proto-name-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

proto-name-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *proto-name-list_manual-mode-list_zone-template*

Type: Object

proto-name-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

proto-name-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-name-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, icmp-v4, icmp-v6, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *proto-name-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

proto-name-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

proto-name-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v4 and class-list-glid are mutually exclusive

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v6 and class-list-glid are mutually exclusive

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

proto-name-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *proto-name-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

proto-name-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

proto-name-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-name-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate

Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current,

ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

proto-name-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-name-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-name-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-tcp-udp-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for this ip-proto

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *proto-tcp-udp-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *proto-tcp-udp-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics*

protocol

Description 'tcp': ip-proto tcp; 'udp': ip-proto udp;

Type: string

Supported Values: tcp, udp

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-tcp-udp-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

proto-tcp-udp-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.166 ddos dst zone ip-proto proto-name

DDOS IP protocol configuration

proto-name Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*proto-name-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name
Element Name	proto-name
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}
Element Attributes	proto-name_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/oper
Schema	`proto-name schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name

proto-name attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name

proto-name attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}

proto-name attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name

proto-name-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}

proto-name attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}

proto-name attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name

proto-name-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}

proto-name attributes

proto-name-list

proto-name-list is **JSON List** of *proto-name attributes*

```
proto-name-list : [
        { proto-name attributes },
        { proto-name attributes },
        ...
    ]
```

proto-name attributes

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deny

Description Blacklist and Drop all incoming packets for ip-proto icmp-v4

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics*

key-cfg

Type: List

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking*

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6; 'other': ip-proto other; 'gre': ip-proto gre; 'ipv4-encap': ip-proto IPv4 Encapsulation; 'ipv6-encap': ip-proto IPv6 Encapsulation;

Type: string

Supported Values: icmp-v4, icmp-v6, other, gre, ipv4-encap, ipv6-encap

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources*

tunnel-decap

Description Enable tunnel decapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-rate-limit

Description Enable DDOS-protection on tunnel traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_zone-template*

Type: Object

dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

key-cfg

Specification	Value
Type	*list*
Block object keys	

key

Description Only decapsulate GRE packet with this key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

manual-mode-list

Specification	Value
Type	*list*
Block object keys	

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *manual-mode-list_zone-template*

Type: Object

manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, icmp-v4, icmp-v6, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v4 and class-list-glid are mutually exclusive

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v6 and class-list-glid are mutually exclusive

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current;

‘ddet_ind_data_cpu_util_min’: Data CPU Utilization Min; ‘ddet_ind_data_cpu_util_max’: Data CPU Utilization Max; ‘ddet_ind_data_cpu_util_adaptive_threshold’: Data CPU Utilization Adaptive Threshold; ‘ddet_ind_outside_intf_util_current’: Outside Interface Utilization Current; ‘ddet_ind_outside_intf_util_min’: Outside Interface Utilization Min; ‘ddet_ind_outside_intf_util_max’: Outside Interface Utilization Max; ‘ddet_ind_outside_intf_util_adaptive_threshold’: Outside Interface Utilization Adaptive Threshold; ‘ddet_ind_frag_rate_current’: Frag Pkt Rate Current; ‘ddet_ind_frag_rate_min’: Frag Pkt Rate Min; ‘ddet_ind_frag_rate_max’: Frag Pkt Rate Max; ‘ddet_ind_frag_rate_adaptive_threshold’: Frag Pkt Rate Adaptive Threshold; ‘ddet_ind_bit_rate_current’: Bit Rate Current; ‘ddet_ind_bit_rate_min’: Bit Rate Min; ‘ddet_ind_bit_rate_max’: Bit Rate Max; ‘ddet_ind_bit_rate_adaptive_threshold’: Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.167 ddos dst zone ip-proto proto-name dynamic-entry-overflow-policy

Configure overflow policy

dynamic-entry-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dummy-name*
Collection Name	*dynamic-entry-overflow-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy
Element Name	dynamic-entry-overflow-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy/{dummy-name}
Element Attributes	dynamic-entry-overflow-policy_attributes
Partition Visibility	shared
Schema	`dynamic-entry-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

dynamic-entry-overflow-policy-list

dynamic-entry-overflow-policy-list is **JSON List** of *dynamic-entry-overflow-policy attributes*

dynamic-entry-overflow-policy-list : [

{ *dynamic-entry-overflow-policy attributes* },

{ *dynamic-entry-overflow-policy attributes* },

...

]

dynamic-entry-overflow-policy attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.168 ddos dst zone ip-proto proto-name ip-filtering-policy-statistics

IP Filter

ip-filtering-policy-statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-filtering-policy-statistics
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics
Element Attributes	ip-filtering-policy-statistics_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics/oper
Schema	`ip-filtering-policy-statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

ip-filtering-policy-statistics attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.169 ddos dst zone ip-proto proto-name ip-filtering-policy-statistics oper

Operational Status for the object ip-filtering-policy-statistics

ip-filtering-policy-statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-filtering-policy-statistics
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics/oper
Element Attributes	ip-filtering-policy-statistics_attributes
Partition Visibility	None
Schema	`ip-filtering-policy-statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

ip-filtering-policy-statistics attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

rule-list

Type: List

oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

2.33.170 ddos dst zone ip-proto proto-name level

Policy Level Configuration

level Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*level-num*
Collection Name	*level-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level
Element Name	level
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}
Element Attributes	level_attributes
Partition Visibility	shared
Schema	`level schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level

level attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level

level attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}

level attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level

level-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}

level attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}

level attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level

level-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}

level attributes

level-list

level-list is **JSON List** of *level attributes*

level-list : [

{ *level attributes* },

{ *level attributes* },

...

]

level attributes

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

2.33.171 ddos dst zone ip-proto proto-name level indicator

DDoS Indicator Configuration

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator/{type}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/level/{level-num}/indicator/{type}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

indicator-list : [

{ *indicator attributes* },

{ *indicator attributes* },

...

]

indicator attributes

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

2.33.172 ddos dst zone ip-proto proto-name manual-mode

Enter manual-mode configuration

manual-mode Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*config*
Collection Name	*manual-mode-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode
Element Name	manual-mode
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode/{config}
Element Attributes	manual-mode_attributes
Partition Visibility	shared
Schema	`manual-mode schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode

manual-mode attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode

manual-mode attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode/{config}

manual-mode attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode

manual-mode-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode/{config}

manual-mode attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode/{config}

manual-mode attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode

manual-mode-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/manual-mode/{config}

manual-mode attributes

manual-mode-list

manual-mode-list is **JSON List** of *manual-mode attributes*

manual-mode-list : [

{ *manual-mode attributes* },

{ *manual-mode attributes* },

...

]

manual-mode attributes

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.173 ddos dst zone ip-proto proto-name oper

Operational Status for the object proto-name

proto-name Specification

Parameter	Value
Type	*Collection*
Collection Name	*proto-name-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}
Element Name	proto-name
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/oper
Element Attributes	proto-name_attributes
Partition Visibility	None
Schema	`proto-name schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}

proto-name attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}

proto-name attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/oper

proto-name attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}

proto-name-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/oper

proto-name attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/oper

proto-name attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}

proto-name-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/oper

proto-name attributes

proto-name-list

proto-name-list is **JSON List** of *proto-name attributes*

proto-name-list : [

{ *proto-name attributes* },

{ *proto-name attributes* },

...

]

proto-name attributes

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics*

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking*

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6; 'other': ip-proto other; 'gre': ip-proto gre; 'ipv4-encap': ip-proto IPv4 Encapsulation; 'ipv6-encap': ip-proto IPv6 Encapsulation;

Type: string

Supported Values: icmp-v4, icmp-v6, other, gre, ipv4-encap, ipv6-encap

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/topk-destinations*

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources*

oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

oper

Type: Object

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/ip-filtering-policy-statistics/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_oper*

Type: Object

src-based-policy-list_policy-class-list-list_oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-ind_oper*

Type: Object

port-ind_oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

port-ind_oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

port-ind_oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

ip-filtering-policy-statistics

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-filtering-policy-statistics_oper*

Type: Object

ip-filtering-policy-statistics_oper

Specification	Value
Type	*object*

rule-list

Type: List

ip-filtering-policy-statistics_oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

topk-destinations

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-destinations_oper*

Type: Object

topk-destinations_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-destinations_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-destinations_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-destinations_oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

topk-destinations_oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-sources_oper*

Type: Object

topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *progression-tracking_oper*

Type: Object

progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

2.33.174 ddos dst zone ip-proto proto-name port-ind

zone port indicators

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind
Element Attributes	port-ind_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind/oper
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind

port-ind attributes

port-ind attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max':

Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current,

ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

2.33.175 ddos dst zone ip-proto proto-name port-ind oper

Operational Status for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind/oper
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind/oper

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind/oper

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind/oper

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind/oper

port-ind attributes

port-ind attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

2.33.176 ddos dst zone ip-proto proto-name port-ind stats

Statistics for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind/stats
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind/stats

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind/stats

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind/stats

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/port-ind/stats

port-ind attributes

port-ind attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ddet_ind_bit_rate_adaptive_threshold

Description Bit Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_bit_rate_current

Description Bit Rate Current

Type: number

Format: counter

ddet_ind_bit_rate_max

Description Bit Rate Max

Type: number

Format: counter

ddet_ind_bit_rate_min

Description Bit Rate Min

Type: number

Format: counter

ddet_ind_concurrent_conns_adaptive_threshold

Description TCP/UDP Concurrent Sessions Adaptive Threshold

Type: number

Format: counter

ddet_ind_concurrent_conns_current

Description TCP/UDP Concurrent Sessions Current

Type: number

Format: counter

ddet_ind_concurrent_conns_max

Description TCP/UDP Concurrent Sessions Max

Type: number

Format: counter

ddet_ind_concurrent_conns_min

Description TCP/UDP Concurrent Sessions Min

Type: number

Format: counter

ddet_ind_conn_miss_rate_adaptive_threshold

Description TCP Session Miss Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_conn_miss_rate_current

Description TCP Session Miss Rate Current

Type: number

Format: counter

ddet_ind_conn_miss_rate_max

Description TCP Session Miss Rate Max

Type: number

Format: counter

ddet_ind_conn_miss_rate_min

Description TCP Session Miss Rate Min

Type: number

Format: counter

ddet_ind_data_cpu_util_adaptive_threshold

Description Data CPU Utilization Adaptive Threshold

Type: number

Format: counter

ddet_ind_data_cpu_util_current

Description Data CPU Utilization Current

Type: number

Format: counter

ddet_ind_data_cpu_util_max

Description Data CPU Utilization Max

Type: number

Format: counter

ddet_ind_data_cpu_util_min

Description Data CPU Utilization Min

Type: number

Format: counter

ddet_ind_empty_ack_rate_adaptive_threshold

Description TCP Empty ACK Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_empty_ack_rate_current

Description TCP Empty ACK Rate Current

Type: number

Format: counter

ddet_ind_empty_ack_rate_max

Description TCP Empty ACK Rate Max

Type: number

Format: counter

ddet_ind_empty_ack_rate_min

Description TCP Empty ACK Rate Min

Type: number

Format: counter

ddet_ind_fin_rate_adaptive_threshold

Description TCP FIN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_fin_rate_current

Description TCP FIN Rate Current

Type: number

Format: counter

ddet_ind_fin_rate_max

Description TCP FIN Rate Max

Type: number

Format: counter

ddet_ind_fin_rate_min

Description TCP FIN Rate Min

Type: number

Format: counter

ddet_ind_frag_rate_adaptive_threshold

Description Frag Pkt Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_frag_rate_current

Description Frag Pkt Rate Current

Type: number

Format: counter

ddet_ind_frag_rate_max

Description Frag Pkt Rate Max

Type: number

Format: counter

ddet_ind_frag_rate_min

Description Frag Pkt Rate Min

Type: number

Format: counter

ddet_ind_inb_per_outb_adaptive_threshold

Description Bytes-to / Bytes-from Adaptive Threshold

Type: number

Format: counter

ddet_ind_inb_per_outb_current

Description Bytes-to / Bytes-from Current

Type: number

Format: counter

ddet_ind_inb_per_outb_max

Description Bytes-to / Bytes-from Max

Type: number

Format: counter

ddet_ind_inb_per_outb_min

Description Bytes-to / Bytes-from Min

Type: number

Format: counter

ddet_ind_outside_intf_util_adaptive_threshold

Description Outside Interface Utilization Adaptive Threshold

Type: number

Format: counter

ddet_ind_outside_intf_util_current

Description Outside Interface Utilization Current

Type: number

Format: counter

ddet_ind_outside_intf_util_max

Description Outside Interface Utilization Max

Type: number

Format: counter

ddet_ind_outside_intf_util_min

Description Outside Interface Utilization Min

Type: number

Format: counter

ddet_ind_pkt_drop_rate_adaptive_threshold

Description Pkt Drop Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_drop_rate_current

Description Pkt Drop Rate Current

Type: number

Format: counter

ddet_ind_pkt_drop_rate_max

Description Pkt Drop Rate Max

Type: number

Format: counter

ddet_ind_pkt_drop_rate_min

Description Pkt Drop Rate Min

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_adaptive_threshold

Description Pkt Drop / Pkt Rcvd Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_current

Description Pkt Drop / Pkt Rcvd Current

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_max

Description Pkt Drop / Pkt Rcvd Max

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_min

Description Pkt Drop / Pkt Rcvd Min

Type: number

Format: counter

ddet_ind_pkt_rate_adaptive_threshold

Description Pkt Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_rate_current

Description Pkt Rate Current

Type: number

Format: counter

ddet_ind_pkt_rate_max

Description Pkt Rate Max

Type: number

Format: counter

ddet_ind_pkt_rate_min

Description Pkt Rate Min

Type: number

Format: counter

ddet_ind_rst_rate_adaptive_threshold

Description TCP RST Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_rst_rate_current

Description TCP RST Rate Current

Type: number

Format: counter

ddet_ind_rst_rate_max

Description TCP RST Rate Max

Type: number

Format: counter

ddet_ind_rst_rate_min

Description TCP RST Rate Min

Type: number

Format: counter

ddet_ind_small_payload_rate_adaptive_threshold

Description TCP Small Payload Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_small_payload_rate_current

Description TCP Small Payload Rate Current

Type: number

Format: counter

ddet_ind_small_payload_rate_max

Description TCP Small Payload Rate Max

Type: number

Format: counter

ddet_ind_small_payload_rate_min

Description TCP Small Payload Rate Min

Type: number

Format: counter

ddet_ind_small_window_ack_rate_adaptive_threshold

Description TCP Small Window ACK Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_small_window_ack_rate_current

Description TCP Small Window ACK Rate Current

Type: number

Format: counter

ddet_ind_small_window_ack_rate_max

Description TCP Small Window ACK Rate Max

Type: number

Format: counter

ddet_ind_small_window_ack_rate_min

Description TCP Small Window ACK Rate Min

Type: number

Format: counter

ddet_ind_syn_ack_rate_adaptive_threshold

Description TCP SYN ACK Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_ack_rate_current

Description TCP SYN ACK Rate Current

Type: number

Format: counter

ddet_ind_syn_ack_rate_max

Description TCP SYN ACK Rate Max

Type: number

Format: counter

ddet_ind_syn_ack_rate_min

Description TCP SYN ACK Rate Min

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_adaptive_threshold

Description TCP SYN Rate / FIN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_current

Description TCP SYN Rate / FIN Rate Current

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_max

Description TCP SYN Rate / FIN Rate Max

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_min

Description TCP SYN Rate / FIN Rate Min

Type: number

Format: counter

ddet_ind_syn_rate_adaptive_threshold

Description TCP SYN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_rate_current

Description TCP SYN Rate Current

Type: number

Format: counter

ddet_ind_syn_rate_max

Description TCP SYN Rate Max

Type: number

Format: counter

ddet_ind_syn_rate_min

Description TCP SYN Rate Min

Type: number

Format: counter

ddet_ind_total_szp_adaptive_threshold

Description Total Learnt Sources Adaptive Threshold

Type: number

Format: counter

ddet_ind_total_szp_current

Description Total Learnt Sources Current

Type: number

Format: counter

ddet_ind_total_szp_max

Description Total Learnt Sources Max

Type: number

Format: counter

ddet_ind_total_szp_min

Description Total Learnt Sources Min

Type: number

Format: counter

ip-proto-type

Description IP Protocol Type

Type: number

Format: counter

2.33.177 ddos dst zone ip-proto proto-name progression-tracking

DDos dst zone-service progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking
Element Attributes	progression-tracking_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking/oper
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking

progression-tracking attributes

progression-tracking attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.178 ddos dst zone ip-proto proto-name progression-tracking oper

Operational Status for the object progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking/oper
Element Attributes	progression-tracking_attributes
Partition Visibility	None
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking/oper

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking/oper

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking/oper

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/progression-tracking/oper

progression-tracking attributes

progression-tracking attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

2.33.179 ddos dst zone ip-proto proto-name src-based-policy

Configure src-based policy

src-based-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*src-based-policy-name*
Collection Name	*src-based-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy
Element Name	src-based-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}
Element Attributes	src-based-policy_attributes
Partition Visibility	shared
Schema	`src-based-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy

src-based-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy

src-based-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy

src-based-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy

src-based-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

src-based-policy-list

src-based-policy-list is **JSON List** of *src-based-policy attributes*

src-based-policy-list : [

{ *src-based-policy attributes* },

{ *src-based-policy attributes* },

...

]

src-based-policy attributes

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, icmp-v4, icmp-v6, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *policy-class-list-list_zone-template*

Type: Object

policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

policy-class-list-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v4 and class-list-glid are mutually exclusive

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v6 and class-list-glid are mutually exclusive

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.180 ddos dst zone ip-proto proto-name src-based-policy policy-class-list

Configure class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*class-list-name*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Attributes	policy-class-list_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, icmp-v4, icmp-v6, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v4 and class-list-glid are mutually exclusive

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-v6 and class-list-glid are mutually exclusive

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *class-list-overflow-policy-list_zone-template*

Type: Object

class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.181 ddos dst zone ip-proto proto-name src-based-policy policy-class-list class-list-overflow-policy

Configure dynamic entry count overflow policy for class-list

class-list-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dummy-name*
Collection Name	*class-list-overflow-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy
Element Name	class-list-overflow-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}
Element Attributes	class-list-overflow-policy_attributes
Partition Visibility	shared
Schema	`class-list-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

class-list-overflow-policy-list

class-list-overflow-policy-list is **JSON List** of *class-list-overflow-policy attributes*

```
class-list-overflow-policy-list : [
        { class-list-overflow-policy attributes },
        { class-list-overflow-policy attributes },
        ...
    ]
```

class-list-overflow-policy attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.182 ddos dst zone ip-proto proto-name src-based-policy policy-class-list oper

Operational Status for the object policy-class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper
Element Attributes	policy-class-list_attributes
Partition Visibility	None
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

2.33.183 ddos dst zone ip-proto proto-name src-based-policy policy-class-list stats

Statistics for the object policy-class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats
Element Attributes	policy-class-list_attributes
Partition Visibility	None
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

entry_count_overflow

Description Entry Count Overflow

Type: number

Format: counter

entry_learned

Description Entry Learned

Type: number

Format: counter

exceed_drop_conn_limit_clist

Description Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_conn_rate_clist

Description Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_frag_rate_clist

Description Frag Rate Exceeded

Type: number

Format: counter

exceed_drop_kbit_rate_clist

Description KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_kbit_rate_clist_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_pkt_rate_clist

Description Packet Rate Exceeded

Type: number

Format: counter

packet_dropped

Description Packets Dropped

Type: number

Format: counter

packet_received

Description Packets Received

Type: number

Format: counter

2.33.184 ddos dst zone ip-proto proto-name topk-destinations

DDos dst zone-service indicators top destinations

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations
Element Attributes	topk-destinations_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations/oper
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations

topk-destinations attributes

topk-destinations attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.185 ddos dst zone ip-proto proto-name topk-destinations oper

Operational Status for the object topk-destinations

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations/oper
Element Attributes	topk-destinations_attributes
Partition Visibility	None
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations/oper

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations/oper

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations/oper

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-destinations/oper

topk-destinations attributes

topk-destinations attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.186 ddos dst zone ip-proto proto-name topk-sources

DDos dst zone-service indicators top sources

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources
Element Attributes	topk-sources_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources/oper
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources

topk-sources attributes

topk-sources attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.187 ddos dst zone ip-proto proto-name topk-sources oper

Operational Status for the object topk-sources

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources/oper
Element Attributes	topk-sources_attributes
Partition Visibility	None
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources/oper

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources/oper

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources/oper

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-name/{protocol}/topk-sources/oper

topk-sources attributes

topk-sources attributes

oper

Description: oper is a **JSON Block**. Please see below for 894_oper

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.188 ddos dst zone ip-proto proto-number

DDOS IP protocol configuration

proto-number Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol-num*
Collection Name	*proto-number-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number
Element Name	proto-number
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}
Element Attributes	proto-number_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/oper
Schema	`proto-number schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number

proto-number attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number

proto-number attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}

proto-number attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number

proto-number-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}

proto-number attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}

proto-number attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number

proto-number-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}

proto-number attributes

proto-number-list

proto-number-list is **JSON List** of *proto-number attributes*

```
proto-number-list : [
        { proto-number attributes },
        { proto-number attributes },
        ...
    ]
```

proto-number attributes

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

deny

Description Blacklist and Drop all incoming packets for this ip-proto

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

esp-inspect

Description: esp-inspect is a **JSON Block**. Please see below for *esp-inspect*

Type: Object

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking*

protocol-num

Description Protocol Number

Type: number

Range: 0-255

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_zone-template*

Type: Object

dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

manual-mode-list

Specification	Value
Type	*list*
Block object keys	

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *manual-mode-list_zone-template*

Type: Object

manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid, glid, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current;

‘ddet_ind_pkt_drop_ratio_min’: Pkt Drop / Pkt Rcvd Min; ‘ddet_ind_pkt_drop_ratio_max’: Pkt Drop / Pkt Rcvd Max; ‘ddet_ind_pkt_drop_ratio_adaptive_threshold’: Pkt Drop / Pkt Rcvd Adaptive Threshold; ‘ddet_ind_inb_per_outb_current’: Bytes-to / Bytes-from Current; ‘ddet_ind_inb_per_outb_min’: Bytes-to / Bytes-from Min; ‘ddet_ind_inb_per_outb_max’: Bytes-to / Bytes-from Max; ‘ddet_ind_inb_per_outb_adaptive_threshold’: Bytes-to / Bytes-from Adaptive Threshold; ‘ddet_ind_syn_per_fin_rate_current’: TCP SYN Rate / FIN Rate Current; ‘ddet_ind_syn_per_fin_rate_min’: TCP SYN Rate / FIN Rate Min; ‘ddet_ind_syn_per_fin_rate_max’: TCP SYN Rate / FIN Rate Max; ‘ddet_ind_syn_per_fin_rate_adaptive_threshold’: TCP SYN Rate / FIN Rate Adaptive Threshold; ‘ddet_ind_conn_miss_rate_current’: TCP Session Miss Rate Current; ‘ddet_ind_conn_miss_rate_min’: TCP Session Miss Rate Min; ‘ddet_ind_conn_miss_rate_max’: TCP Session Miss Rate Max; ‘ddet_ind_conn_miss_rate_adaptive_threshold’: TCP Session Miss Rate Adaptive Threshold; ‘ddet_ind_concurrent_conns_current’: TCP/UDP Concurrent Sessions Current; ‘ddet_ind_concurrent_conns_min’: TCP/UDP Concurrent Sessions Min; ‘ddet_ind_concurrent_conns_max’: TCP/UDP Concurrent Sessions Max; ‘ddet_ind_concurrent_conns_adaptive_threshold’: TCP/UDP Concurrent Sessions Adaptive Threshold; ‘ddet_ind_data_cpu_util_current’: Data CPU Utilization Current; ‘ddet_ind_data_cpu_util_min’: Data CPU Utilization Min; ‘ddet_ind_data_cpu_util_max’: Data CPU Utilization Max; ‘ddet_ind_data_cpu_util_adaptive_threshold’: Data CPU Utilization Adaptive Threshold; ‘ddet_ind_outside_intf_util_current’: Outside Interface Utilization Current; ‘ddet_ind_outside_intf_util_min’: Outside Interface Utilization Min; ‘ddet_ind_outside_intf_util_max’: Outside Interface Utilization Max; ‘ddet_ind_outside_intf_util_adaptive_threshold’: Outside Interface Utilization Adaptive Threshold; ‘ddet_ind_frag_rate_current’: Frag Pkt Rate Current; ‘ddet_ind_frag_rate_min’: Frag Pkt Rate Min; ‘ddet_ind_frag_rate_max’: Frag Pkt Rate Max; ‘ddet_ind_frag_rate_adaptive_threshold’: Frag Pkt Rate Adaptive Threshold; ‘ddet_ind_bit_rate_current’: Bit Rate Current; ‘ddet_ind_bit_rate_min’: Bit Rate Min; ‘ddet_ind_bit_rate_max’: Bit Rate Max; ‘ddet_ind_bit_rate_adaptive_threshold’: Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold,

ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

esp-inspect

Specification	Value
Type	*object*

auth-algorithm

Description 'AUTH_NULL': No Integrity Check Value; 'HMAC-SHA-1-96': 96 bit Auth Algo; 'HMAC-SHA-256-96': 96 bit Auth Algo; 'HMAC-SHA-256-128': 128 bit Auth Algo; 'HMAC-SHA-384-192': 192 bit Auth Algo; 'HMAC-SHA-512-256': 256 bit Auth Algo; 'HMAC-MD5-96': 96 bit Auth Algo; 'MAC-RIPEMD-160-96': 96 bit Auth Algo;

Type: string

Supported Values: AUTH_NULL, HMAC-SHA-1-96, HMAC-SHA-256-96, HMAC-SHA-256-128, HMAC-SHA-384-192, HMAC-SHA-512-256, HMAC-MD5-96, MAC-RIPEMD-160-96

encrypt-algorithm

Description 'NULL': Null Encryption Algorithm;

Type: string

Supported Values: NULL

mode

Description 'transport': Transport mode;

Type: string

Supported Values: transport

topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.189 ddos dst zone ip-proto proto-number dynamic-entry-overflow-policy

Configure overflow policy

dynamic-entry-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dummy-name*
Collection Name	*dynamic-entry-overflow-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy
Element Name	dynamic-entry-overflow-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy/{dummy-name}
Element Attributes	dynamic-entry-overflow-policy_attributes
Partition Visibility	shared
Schema	`dynamic-entry-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

dynamic-entry-overflow-policy-list

dynamic-entry-overflow-policy-list is **JSON List** of *dynamic-entry-overflow-policy attributes*

dynamic-entry-overflow-policy-list : [

{ *dynamic-entry-overflow-policy attributes* },

{ *dynamic-entry-overflow-policy attributes* },

...

]

dynamic-entry-overflow-policy attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.190 ddos dst zone ip-proto proto-number ip-filtering-policy-statistics

IP Filter

ip-filtering-policy-statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-filtering-policy-statistics
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics
Element Attributes	ip-filtering-policy-statistics_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/oper
Schema	`ip-filtering-policy-statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

ip-filtering-policy-statistics attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.191 ddos dst zone ip-proto proto-number ip-filtering-policy-statistics oper

Operational Status for the object ip-filtering-policy-statistics

ip-filtering-policy-statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-filtering-policy-statistics
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/oper
Element Attributes	ip-filtering-policy-statistics_attributes
Partition Visibility	None
Schema	`ip-filtering-policy-statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

ip-filtering-policy-statistics attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

rule-list

Type: List

oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

2.33.192 ddos dst zone ip-proto proto-number level

Policy Level Configuration

level Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*level-num*
Collection Name	*level-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level
Element Name	level
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}
Element Attributes	level_attributes
Partition Visibility	shared
Schema	`level schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level

level attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level

level attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}

level attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level

level-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}

level attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}

level attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level

level-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}

level attributes

level-list

level-list is **JSON List** of *level attributes*

level-list : [

{ *level attributes* },

{ *level attributes* },

...

]

level attributes

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

2.33.193 ddos dst zone ip-proto proto-number level indicator

DDoS Indicator Configuration

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator/{type}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator/{type}

indicator attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator/{type}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator/{type}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/level/{level-num}/indicator/{type}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

```
indicator-list : [
        { indicator attributes },
        { indicator attributes },
        ...
    ]
```

indicator attributes

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'frag-rate': rate of incoming fragmented packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

2.33.194 ddos dst zone ip-proto proto-number manual-mode

Enter manual-mode configuration

manual-mode Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*config*
Collection Name	*manual-mode-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode
Element Name	manual-mode
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode/{config}
Element Attributes	manual-mode_attributes
Partition Visibility	shared
Schema	`manual-mode schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode

manual-mode attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode

manual-mode attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode/{config}

manual-mode attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode

manual-mode-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode/{config}

manual-mode attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode/{config}

manual-mode attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode

manual-mode-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/manual-mode/{config}

manual-mode attributes

manual-mode-list

manual-mode-list is **JSON List** of *manual-mode attributes*

manual-mode-list : [

{ *manual-mode attributes* },

{ *manual-mode attributes* },

...

]

manual-mode attributes

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.195 ddos dst zone ip-proto proto-number oper

Operational Status for the object proto-number

proto-number Specification

Parameter	Value
Type	*Collection*
Collection Name	*proto-number-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}
Element Name	proto-number
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/oper
Element Attributes	proto-number_attributes
Partition Visibility	None
Schema	`proto-number schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}

proto-number attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}

proto-number attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/oper

proto-number attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}

proto-number-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/oper

proto-number attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/oper

proto-number attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}

proto-number-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/oper

proto-number attributes

proto-number-list

proto-number-list is **JSON List** of *proto-number attributes*

proto-number-list : [

{ *proto-number attributes* },

{ *proto-number attributes* },

...

]

proto-number attributes

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics*

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/progression-tracking*

protocol-num

Description Protocol Number

Type: number

Range: 0-255

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations*

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources*

oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

oper

Type: Object

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_oper*

Type: Object

src-based-policy-list_policy-class-list-list_oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *progression-tracking_oper*

Type: Object

progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-ind_oper*

Type: Object

port-ind_oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

port-ind_oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

port-ind_oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

ip-filtering-policy-statistics

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-filtering-policy-statistics_oper*

Type: Object

ip-filtering-policy-statistics_oper

Specification	Value
Type	*object*

rule-list

Type: List

ip-filtering-policy-statistics_oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

topk-destinations

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-destinations_oper*

Type: Object

topk-destinations_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-destinations_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-destinations_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-destinations_oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

topk-destinations_oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-sources_oper*

Type: Object

topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.196 ddos dst zone ip-proto proto-number port-ind

zone port indicators

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind
Element Attributes	port-ind_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind/oper
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind

port-ind attributes

port-ind attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty

ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current,

ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

2.33.197 ddos dst zone ip-proto proto-number port-ind oper

Operational Status for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind/oper
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind/oper

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind/oper

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind/oper

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind/oper

port-ind attributes

port-ind attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

2.33.198 ddos dst zone ip-proto proto-number port-ind stats

Statistics for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind/stats
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind/stats

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind/stats

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind/stats

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/port-ind/stats

port-ind attributes

port-ind attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ddet_ind_bit_rate_adaptive_threshold

Description Bit Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_bit_rate_current

Description Bit Rate Current

Type: number

Format: counter

ddet_ind_bit_rate_max

Description Bit Rate Max

Type: number

Format: counter

ddet_ind_bit_rate_min

Description Bit Rate Min

Type: number

Format: counter

ddet_ind_concurrent_conns_adaptive_threshold

Description TCP/UDP Concurrent Sessions Adaptive Threshold

Type: number

Format: counter

ddet_ind_concurrent_conns_current

Description TCP/UDP Concurrent Sessions Current

Type: number

Format: counter

ddet_ind_concurrent_conns_max

Description TCP/UDP Concurrent Sessions Max

Type: number

Format: counter

ddet_ind_concurrent_conns_min

Description TCP/UDP Concurrent Sessions Min

Type: number

Format: counter

ddet_ind_conn_miss_rate_adaptive_threshold

Description TCP Session Miss Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_conn_miss_rate_current

Description TCP Session Miss Rate Current

Type: number

Format: counter

ddet_ind_conn_miss_rate_max

Description TCP Session Miss Rate Max

Type: number

Format: counter

ddet_ind_conn_miss_rate_min

Description TCP Session Miss Rate Min

Type: number

Format: counter

ddet_ind_data_cpu_util_adaptive_threshold

Description Data CPU Utilization Adaptive Threshold

Type: number

Format: counter

ddet_ind_data_cpu_util_current

Description Data CPU Utilization Current

Type: number

Format: counter

ddet_ind_data_cpu_util_max

Description Data CPU Utilization Max

Type: number

Format: counter

ddet_ind_data_cpu_util_min

Description Data CPU Utilization Min

Type: number

Format: counter

ddet_ind_empty_ack_rate_adaptive_threshold

Description TCP Empty ACK Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_empty_ack_rate_current

Description TCP Empty ACK Rate Current

Type: number

Format: counter

ddet_ind_empty_ack_rate_max

Description TCP Empty ACK Rate Max

Type: number

Format: counter

ddet_ind_empty_ack_rate_min

Description TCP Empty ACK Rate Min

Type: number

Format: counter

ddet_ind_fin_rate_adaptive_threshold

Description TCP FIN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_fin_rate_current

Description TCP FIN Rate Current

Type: number

Format: counter

ddet_ind_fin_rate_max

Description TCP FIN Rate Max

Type: number

Format: counter

ddet_ind_fin_rate_min

Description TCP FIN Rate Min

Type: number

Format: counter

ddet_ind_frag_rate_adaptive_threshold

Description Frag Pkt Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_frag_rate_current

Description Frag Pkt Rate Current

Type: number

Format: counter

ddet_ind_frag_rate_max

Description Frag Pkt Rate Max

Type: number

Format: counter

ddet_ind_frag_rate_min

Description Frag Pkt Rate Min

Type: number

Format: counter

ddet_ind_inb_per_outb_adaptive_threshold

Description Bytes-to / Bytes-from Adaptive Threshold

Type: number

Format: counter

ddet_ind_inb_per_outb_current

Description Bytes-to / Bytes-from Current

Type: number

Format: counter

ddet_ind_inb_per_outb_max

Description Bytes-to / Bytes-from Max

Type: number

Format: counter

ddet_ind_inb_per_outb_min

Description Bytes-to / Bytes-from Min

Type: number

Format: counter

ddet_ind_outside_intf_util_adaptive_threshold

Description Outside Interface Utilization Adaptive Threshold

Type: number

Format: counter

ddet_ind_outside_intf_util_current

Description Outside Interface Utilization Current

Type: number

Format: counter

ddet_ind_outside_intf_util_max

Description Outside Interface Utilization Max

Type: number

Format: counter

ddet_ind_outside_intf_util_min

Description Outside Interface Utilization Min

Type: number

Format: counter

ddet_ind_pkt_drop_rate_adaptive_threshold

Description Pkt Drop Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_drop_rate_current

Description Pkt Drop Rate Current

Type: number

Format: counter

ddet_ind_pkt_drop_rate_max

Description Pkt Drop Rate Max

Type: number

Format: counter

ddet_ind_pkt_drop_rate_min

Description Pkt Drop Rate Min

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_adaptive_threshold

Description Pkt Drop / Pkt Rcvd Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_current

Description Pkt Drop / Pkt Rcvd Current

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_max

Description Pkt Drop / Pkt Rcvd Max

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_min

Description Pkt Drop / Pkt Rcvd Min

Type: number

Format: counter

ddet_ind_pkt_rate_adaptive_threshold

Description Pkt Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_rate_current

Description Pkt Rate Current

Type: number

Format: counter

ddet_ind_pkt_rate_max

Description Pkt Rate Max

Type: number

Format: counter

ddet_ind_pkt_rate_min

Description Pkt Rate Min

Type: number

Format: counter

ddet_ind_rst_rate_adaptive_threshold

Description TCP RST Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_rst_rate_current

Description TCP RST Rate Current

Type: number

Format: counter

ddet_ind_rst_rate_max

Description TCP RST Rate Max

Type: number

Format: counter

ddet_ind_rst_rate_min

Description TCP RST Rate Min

Type: number

Format: counter

ddet_ind_small_payload_rate_adaptive_threshold

Description TCP Small Payload Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_small_payload_rate_current

Description TCP Small Payload Rate Current

Type: number

Format: counter

ddet_ind_small_payload_rate_max

Description TCP Small Payload Rate Max

Type: number

Format: counter

ddet_ind_small_payload_rate_min

Description TCP Small Payload Rate Min

Type: number

Format: counter

ddet_ind_small_window_ack_rate_adaptive_threshold

Description TCP Small Window ACK Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_small_window_ack_rate_current

Description TCP Small Window ACK Rate Current

Type: number

Format: counter

ddet_ind_small_window_ack_rate_max

Description TCP Small Window ACK Rate Max

Type: number

Format: counter

ddet_ind_small_window_ack_rate_min

Description TCP Small Window ACK Rate Min

Type: number

Format: counter

ddet_ind_syn_ack_rate_adaptive_threshold

Description TCP SYN ACK Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_ack_rate_current

Description TCP SYN ACK Rate Current

Type: number

Format: counter

ddet_ind_syn_ack_rate_max

Description TCP SYN ACK Rate Max

Type: number

Format: counter

ddet_ind_syn_ack_rate_min

Description TCP SYN ACK Rate Min

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_adaptive_threshold

Description TCP SYN Rate / FIN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_current

Description TCP SYN Rate / FIN Rate Current

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_max

Description TCP SYN Rate / FIN Rate Max

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_min

Description TCP SYN Rate / FIN Rate Min

Type: number

Format: counter

ddet_ind_syn_rate_adaptive_threshold

Description TCP SYN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_rate_current

Description TCP SYN Rate Current

Type: number

Format: counter

ddet_ind_syn_rate_max

Description TCP SYN Rate Max

Type: number

Format: counter

ddet_ind_syn_rate_min

Description TCP SYN Rate Min

Type: number

Format: counter

ddet_ind_total_szp_adaptive_threshold

Description Total Learnt Sources Adaptive Threshold

Type: number

Format: counter

ddet_ind_total_szp_current

Description Total Learnt Sources Current

Type: number

Format: counter

ddet_ind_total_szp_max

Description Total Learnt Sources Max

Type: number

Format: counter

ddet_ind_total_szp_min

Description Total Learnt Sources Min

Type: number

Format: counter

ip-proto-type

Description IP Protocol Type

Type: number

Format: counter

2.33.199 ddos dst zone ip-proto proto-number progression-tracking

DDos dst zone-service progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking
Element Attributes	progression-tracking_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking/oper
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking

progression-tracking attributes

progression-tracking attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.200 ddos dst zone ip-proto proto-number progression-tracking oper

Operational Status for the object progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking/oper
Element Attributes	progression-tracking_attributes
Partition Visibility	None
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking/oper

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking/oper

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking/oper

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/progression-tracking/oper

progression-tracking attributes

progression-tracking attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

2.33.201 ddos dst zone ip-proto proto-number src-based-policy

Configure src-based policy

src-based-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*src-based-policy-name*
Collection Name	*src-based-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy
Element Name	src-based-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}
Element Attributes	src-based-policy_attributes
Partition Visibility	shared
Schema	`src-based-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy

src-based-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy

src-based-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy

src-based-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy

src-based-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

src-based-policy-list

src-based-policy-list is **JSON List** of *src-based-policy attributes*

src-based-policy-list : [

{ *src-based-policy attributes* },

{ *src-based-policy attributes* },

…

]

src-based-policy attributes

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid, glid, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *policy-class-list-list_zone-template*

Type: Object

policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

policy-class-list-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.202 ddos dst zone ip-proto proto-number src-based-policy policy-class-list

Configure class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*class-list-name*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Attributes	policy-class-list_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid, glid, and ip-proto are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ip-proto and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *class-list-overflow-policy-list_zone-template*

Type: Object

class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.203 ddos dst zone ip-proto proto-number src-based-policy policy-class-list class-list-overflow-policy

Configure dynamic entry count overflow policy for class-list

class-list-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dummy-name*
Collection Name	*class-list-overflow-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy
Element Name	class-list-overflow-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}
Element Attributes	class-list-overflow-policy_attributes
Partition Visibility	shared
Schema	`class-list-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

class-list-overflow-policy-list

class-list-overflow-policy-list is **JSON List** of *class-list-overflow-policy attributes*

```
class-list-overflow-policy-list : [
        { class-list-overflow-policy attributes },
        { class-list-overflow-policy attributes },
        ...
    ]
```

class-list-overflow-policy attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

ip-proto

Description DDOS ip-proto template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.204 ddos dst zone ip-proto proto-number src-based-policy policy-class-list oper

Operational Status for the object policy-class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper
Element Attributes	policy-class-list_attributes
Partition Visibility	None
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

2.33.205 ddos dst zone ip-proto proto-number src-based-policy policy-class-list stats

Statistics for the object policy-class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats
Element Attributes	policy-class-list_attributes
Partition Visibility	None
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

```
policy-class-list-list : [
        { policy-class-list attributes },
        { policy-class-list attributes },
        ...
    ]
```

policy-class-list attributes

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

entry_count_overflow

Description Entry Count Overflow

Type: number

Format: counter

entry_learned

Description Entry Learned

Type: number

Format: counter

exceed_drop_conn_limit_clist

Description Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_conn_rate_clist

Description Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_frag_rate_clist

Description Frag Rate Exceeded

Type: number

Format: counter

exceed_drop_kbit_rate_clist

Description KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_kbit_rate_clist_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_pkt_rate_clist

Description Packet Rate Exceeded

Type: number

Format: counter

packet_dropped

Description Packets Dropped

Type: number

Format: counter

packet_received

Description Packets Received

Type: number

Format: counter

2.33.206 ddos dst zone ip-proto proto-number topk-destinations

DDos dst zone-service indicators top destinations

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations
Element Attributes	topk-destinations_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations/oper
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations

topk-destinations attributes

topk-destinations attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.207 ddos dst zone ip-proto proto-number topk-destinations oper

Operational Status for the object topk-destinations

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations/oper
Element Attributes	topk-destinations_attributes
Partition Visibility	None
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations/oper

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations/oper

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations/oper

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-destinations/oper

topk-destinations attributes

topk-destinations attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.208 ddos dst zone ip-proto proto-number topk-sources

DDos dst zone-service indicators top sources

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources
Element Attributes	topk-sources_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources/oper
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources

topk-sources attributes

topk-sources attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.209 ddos dst zone ip-proto proto-number topk-sources oper

Operational Status for the object topk-sources

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources/oper
Element Attributes	topk-sources_attributes
Partition Visibility	None
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources/oper

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources/oper

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources/oper

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-number/{protocol-num}/topk-sources/oper

topk-sources attributes

topk-sources attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.210 ddos dst zone ip-proto proto-tcp-udp

DDOS IP protocol configuration

proto-tcp-udp Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*proto-tcp-udp-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp
Element Name	proto-tcp-udp
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}
Element Attributes	proto-tcp-udp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/oper
Schema	`proto-tcp-udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp

proto-tcp-udp attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp

proto-tcp-udp attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}

proto-tcp-udp attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp

proto-tcp-udp-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}

proto-tcp-udp attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}

proto-tcp-udp attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp

proto-tcp-udp-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}

proto-tcp-udp attributes

proto-tcp-udp-list

proto-tcp-udp-list is **JSON List** of *proto-tcp-udp attributes*

proto-tcp-udp-list : [

{ *proto-tcp-udp attributes* },

{ *proto-tcp-udp attributes* },

...

]

proto-tcp-udp attributes

deny

Description Blacklist and Drop all incoming packets for this ip-proto

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-frag-pkt

Description Drop fragmented packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics*

protocol

Description 'tcp': ip-proto tcp; 'udp': ip-proto udp;

Type: string

Supported Values: tcp, udp

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.211 ddos dst zone ip-proto proto-tcp-udp ip-filtering-policy-statistics

IP Filter

ip-filtering-policy-statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-filtering-policy-statistics
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics
Element Attributes	ip-filtering-policy-statistics_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics/oper
Schema	`ip-filtering-policy-statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

ip-filtering-policy-statistics attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.212 ddos dst zone ip-proto proto-tcp-udp ip-filtering-policy-statistics oper

Operational Status for the object ip-filtering-policy-statistics

ip-filtering-policy-statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-filtering-policy-statistics
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics/oper
Element Attributes	ip-filtering-policy-statistics_attributes
Partition Visibility	None
Schema	`ip-filtering-policy-statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

ip-filtering-policy-statistics attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

rule-list

Type: List

oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

2.33.213 ddos dst zone ip-proto proto-tcp-udp oper

Operational Status for the object proto-tcp-udp

proto-tcp-udp Specification

Parameter	Value
Type	*Collection*
Collection Name	*proto-tcp-udp-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}
Element Name	proto-tcp-udp
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/oper
Element Attributes	proto-tcp-udp_attributes
Partition Visibility	None
Schema	`proto-tcp-udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}

proto-tcp-udp attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}

proto-tcp-udp attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/oper

proto-tcp-udp attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}

proto-tcp-udp-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/oper

proto-tcp-udp attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/oper

proto-tcp-udp attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}

proto-tcp-udp-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/oper

proto-tcp-udp attributes

proto-tcp-udp-list

proto-tcp-udp-list is **JSON List** of *proto-tcp-udp attributes*

proto-tcp-udp-list : [

{ *proto-tcp-udp attributes* },

{ *proto-tcp-udp attributes* },

...

]

proto-tcp-udp attributes

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/ip-proto/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics*

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

protocol

Description 'tcp': ip-proto tcp; 'udp': ip-proto udp;

Type: string

Supported Values: tcp, udp

oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

ip-filtering-policy-statistics

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-filtering-policy-statistics_oper*

Type: Object

ip-filtering-policy-statistics_oper

Specification	Value
Type	*object*

rule-list

Type: List

ip-filtering-policy-statistics_oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

2.33.214 ddos dst zone oper

Operational Status for the object zone

zone Specification

Parameter	Value
Type	*Collection*
Collection Name	*zone-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}
Element Name	zone
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/oper
Element Attributes	zone_attributes
Partition Visibility	None
Schema	`zone schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}

zone attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}

zone attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/oper

zone attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}

zone-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/oper

zone attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/oper

zone attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}

zone-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/oper

zone attributes

zone-list

zone-list is **JSON List** of *zone attributes*

```
zone-list : [
        { zone attributes },
        { zone attributes },
        ...
    ]
```

zone attributes

detection

Description: detection is a **JSON Block**. Please see below for *detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection*

ip-proto

Description: ip-proto is a **JSON Block**. Please see below for *ip-proto*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto*

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

outbound-policy

Description: outbound-policy is a **JSON Block**. Please see below for *outbound-policy*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy*

packet-anomaly-detection

Description: packet-anomaly-detection is a **JSON Block**. Please see below for *packet-anomaly-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection*

port

Description: port is a **JSON Block**. Please see below for *port*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/port-range/{port-range-start}+{port-range-end}+{protocol}*

src-port

Description: src-port is a **JSON Block**. Please see below for *src-port*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port*

src-port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations*

zone-name

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

oper

Specification	Value
Type	*object*

addresses

Description

Type: boolean

Supported Values: true, false, 1, 0

all-addresses

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ip-protos

Description

Type: boolean

Supported Values: true, false, 1, 0

all-ports

Description

Type: boolean

Supported Values: true, false, 1, 0

blackhole

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

dynamic-expand-subnet

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-displayed-count

Description

Type: number

icmp-dynamic-entry-count

Description

Type: string

ip-proto-num

Description

Type: number

no-t2-idx-port-count

Description

Type: number

other-dynamic-entry-count

Description

Type: string

port-num

Description

Type: number

port-range-end

Description

Type: number

port-range-start

Description

Type: number

protocol

Description

Type: string

service-displayed-count

Description

Type: number

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

tcp-dynamic-entry-count

Description

Type: string

total-dynamic-entry-count

Description

Type: string

traffic-distribution-status

Type: List

udp-dynamic-entry-count

Description

Type: string

oper_traffic-distribution-status

Specification	Value
Type	*list*
Block object keys	

active-pu

Type: List

master-pu

Description

Type: string

oper_traffic-distribution-status_active-pu

Specification	Value
Type	*list*
Block object keys	

pu-id

Description

Type: string

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: string

lockup-time

Description

Type: number

operational-mode

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: number

outbound-policy

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *outbound-policy_oper*

Type: Object

outbound-policy_oper

Specification	Value
Type	*object*

geo-tracking-statistics

Description: geo-tracking-statistics is a **JSON Block**. Please see below for *outbound-policy_oper_geo-tracking-statistics*

Type: Object

no-class-list-match

Description

Type: number

policy-class-list

Type: List

policy-name

Description

Type: string

policy-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

policy-statistics

Description

Type: boolean

Supported Values: true, false, 1, 0

tracking-entry-filter

Description

Type: boolean

Supported Values: true, false, 1, 0

tracking-entry-list

Type: List

outbound-policy_oper_geo-tracking-statistics

Specification	Value
Type	*object*

connection-rate-exceed

Description

Type: number

connections-exceed

Description

Type: number

frag-packet-rate

Description

Type: number

kBit-rate-exceed

Description

Type: number

kBit-rate-exceed-count

Description

Type: number

packet-dropped

Description

Type: number

packet-rate-exceed

Description

Type: number

packet-received

Description

Type: number

tracking-entry-aged

Description

Type: number

tracking-entry-learn

Description

Type: number

tracking-entry-learning-thre-exceed

Description

Type: number

outbound-policy_oper_policy-class-list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

class-list-name

Description

Type: string

connection-limit

Description

Type: string

connection-rate-exceed

Description

Type: number

connection-rate-limit

Description

Type: string

connections-exceed

Description

Type: number

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

frag-packet-rate

Description

Type: number

frag-packet-rate-limit

Description

Type: string

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-exceed

Description

Type: number

kBit-rate-exceed-count

Description

Type: number

kBit-rate-limit

Description

Type: string

lockup-time

Description

Type: number

packet-dropped

Description

Type: number

packet-rate-exceed

Description

Type: number

packet-rate-limit

Description

Type: string

packet-received

Description

Type: number

outbound-policy_oper_tracking-entry-list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

frag-packet-rate-limit

Description

Type: string

geo-location-name

Description

Type: string

Format: string-rlx

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: string

packet-rate-limit

Description

Type: string

packet-anomaly-detection

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *packet-anomaly-detection_oper*

Type: Object

packet-anomaly-detection_oper

Specification	Value
Type	*object*

data-source

Description

Type: string

indicators

Type: List

packet-anomaly-detection_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

is-anomaly

Description

Type: number

maximum

Description

Type: string

minimum

Description

Type: string

rate

Description

Type: string

threshold

Description

Type: string

src-port

Specification	Value
Type	*object*

oper

Type: Object

zone-src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}*

zone-src-port-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/zone-src-port-other/{port-other}+{protocol}*

src-port_zone-src-port-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *src-port_zone-src-port-list_oper*

Type: Object

port-ind

Description: port-ind is a **JSON Block**. Please see below for *src-port_zone-src-port-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/port-ind*

port-num

Description Source Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-udp': DNS-UDP Port; 'dns-tcp': DNS-TCP Port; 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: dns-udp, dns-tcp, udp, tcp

src-port_zone-src-port-list_oper

Specification	Value
Type	*object*

ddos_entry_list

Type: List

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

src-port_zone-src-port-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

src-port_zone-src-port-list_port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *src-port_zone-src-port-list_port-ind_oper*

Type: Object

src-port_zone-src-port-list_port-ind_oper

Specification	Value
Type	*object*

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

indicators

Type: List

src-port_zone-src-port-list_port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

src-port_zone-src-port-list_port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

src-port_zone-src-port-other-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *src-port_zone-src-port-other-list_oper*

Type: Object

port-ind

Description: port-ind is a **JSON Block**. Please see below for *src-port_zone-src-port-other-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/zone-src-port-other/{port-other}+{protocol}/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

src-port_zone-src-port-other-list_oper

Specification	Value
Type	*object*

ddos_entry_list

Type: List

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

src-port_zone-src-port-other-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

src-port_zone-src-port-other-list_port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *src-port_zone-src-port-other-list_port-ind_oper*

Type: Object

src-port_zone-src-port-other-list_port-ind_oper

Specification	Value
Type	*object*

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

indicators

Type: List

src-port_zone-src-port-other-list_port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

src-port_zone-src-port-other-list_port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

detection

Specification	Value
Type	*object*

oper

Type: Object

outbound-detection

Description: outbound-detection is a **JSON Block**. Please see below for *detection_outbound-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection*

service-discovery

Description: service-discovery is a **JSON Block**. Please see below for *detection_service-discovery*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/service-discovery*

victim-ip-detection

Description: victim-ip-detection is a **JSON Block**. Please see below for *detection_victim-ip-detection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/service-discovery/victim-ip-detection*

detection_victim-ip-detection

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *detection_victim-ip-detection_oper*

Type: Object

detection_victim-ip-detection_oper

Specification	Value
Type	*object*

active-list

Description

Type: boolean

Supported Values: true, false, 1, 0

ip-entry-count

Description

Type: number

ip-entry-list

Type: List

ipv4-ip

Description

Type: string

Format: ipv4-address

ipv6-ip

Description

Type: string

Format: ipv6-address

total-ip-entry-count

Description

Type: number

victim-list

Description

Type: boolean

Supported Values: true, false, 1, 0

detection_victim-ip-detection_oper_ip-entry-list

Specification	Value
Type	*list*
Block object keys	

de-escalation-timestamp

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

ip-address-str

Description

Type: string

is-histogram-learning-done

Description

Type: number

is-ip-anomaly

Description

Type: number

is-learning-done

Description

Type: number

is_static_threshold

Description

Type: number

detection_victim-ip-detection_oper_ip-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

is-anomaly

Description

Type: number

value

Type: List

detection_victim-ip-detection_oper_ip-entry-list_indicators_value

Specification	Value
Type	*list*
Block object keys	

current

Description

Type: string

threshold

Description

Type: string

detection_outbound-detection

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *detection_outbound-detection_oper*

Type: Object

topk-source-subnet

Description: topk-source-subnet is a **JSON Block**. Please see below for *detection_outbound-detection_topk-source-subnet*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/topk-source-subnet*

detection_outbound-detection_oper

Specification	Value
Type	*object*

discovery-timestamp

Description

Type: string

entry-list

Type: List

detection_outbound-detection_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

anomaly

Description

Type: string

anomaly-timestamp

Description

Type: string

data-source

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

location-name

Description

Type: string

location-type

Description

Type: string

detection_outbound-detection_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

adaptive-threshold

Description

Type: string

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

non-zero-minimum

Description

Type: string

rate

Description

Type: string

detection_outbound-detection_topk-source-subnet

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *detection_outbound-detection_topk-source-subnet_oper*

Type: Object

detection_outbound-detection_topk-source-subnet_oper

Specification	Value
Type	*object*

entry-list

Type: List

detection_outbound-detection_topk-source-subnet_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

indicators

Type: List

location-name

Description

Type: string

location-type

Description

Type: string

detection_outbound-detection_topk-source-subnet_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

source-subnets

Type: List

detection_outbound-detection_topk-source-subnet_oper_entry-list_indicators_source-subnets

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

detection_service-discovery

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *detection_service-discovery_oper*

Type: Object

detection_service-discovery_oper

Specification	Value
Type	*object*

discovered-service-list

Type: List

detection_service-discovery_oper_discovered-service-list

Specification	Value
Type	*list*
Block object keys	

port

Description

Type: number

protocol

Description

Type: string

rate

Description

Type: number

ip-proto

Specification	Value
Type	*object*

oper

Type: Object

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}*

proto-number-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}*

proto-tcp-udp-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}*

ip-proto_proto-number-list

Specification	Value
Type	*list*
Block object keys	

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-proto_proto-number-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-number-list_oper*

Type: Object

port-ind

Description: port-ind is a **JSON Block**. Please see below for *ip-proto_proto-number-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *ip-proto_proto-number-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/progression-tracking*

protocol-num

Description Protocol Number

Type: number

Range: 0-255

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *ip-proto_proto-number-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations*

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *ip-proto_proto-number-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources*

ip-proto_proto-number-list_oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

ip-proto_proto-number-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

ip-proto_proto-number-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

oper

Type: Object

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_oper*

Type: Object

ip-proto_proto-number-list_src-based-policy-list_policy-class-list-list_oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

ip-proto_proto-number-list_progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-number-list_progression-tracking_oper*

Type: Object

ip-proto_proto-number-list_progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

ip-proto_proto-number-list_progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

ip-proto_proto-number-list_port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-number-list_port-ind_oper*

Type: Object

ip-proto_proto-number-list_port-ind_oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

ip-proto_proto-number-list_port-ind_oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

ip-proto_proto-number-list_port-ind_oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

ip-proto_proto-number-list_port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

ip-proto_proto-number-list_port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

ip-proto_proto-number-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-number-list_ip-filtering-policy-statistics_oper*

Type: Object

ip-proto_proto-number-list_ip-filtering-policy-statistics_oper

Specification	Value
Type	*object*

rule-list

Type: List

ip-proto_proto-number-list_ip-filtering-policy-statistics_oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

ip-proto_proto-number-list_topk-destinations

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-number-list_topk-destinations_oper*

Type: Object

ip-proto_proto-number-list_topk-destinations_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

ip-proto_proto-number-list_topk-destinations_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

ip-proto_proto-number-list_topk-destinations_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

ip-proto_proto-number-list_topk-destinations_oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

ip-proto_proto-number-list_topk-destinations_oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

ip-proto_proto-number-list_topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-number-list_topk-sources_oper*

Type: Object

ip-proto_proto-number-list_topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

ip-proto_proto-number-list_topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

ip-proto_proto-number-list_topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

ip-proto_proto-number-list_topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

ip-proto_proto-number-list_topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

ip-proto_proto-name-list

Specification	Value
Type	*list*
Block object keys	

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-proto_proto-name-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-name-list_oper*

Type: Object

port-ind

Description: port-ind is a **JSON Block**. Please see below for *ip-proto_proto-name-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind*

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *ip-proto_proto-name-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking*

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6; 'other': ip-proto other; 'gre': ip-proto gre; 'ipv4-encap': ip-proto IPv4 Encapsulation; 'ipv6-encap': ip-proto IPv6 Encapsulation;

Type: string

Supported Values: icmp-v4, icmp-v6, other, gre, ipv4-encap, ipv6-encap

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-*

ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/src-based-policy/{src-based-policy-name}

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *ip-proto_proto-name-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/topk-destinations*

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *ip-proto_proto-name-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources*

ip-proto_proto-name-list_oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

ip-proto_proto-name-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

ip-proto_proto-name-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

oper

Type: Object

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_oper*

Type: Object

ip-proto_proto-name-list_src-based-policy-list_policy-class-list-list_oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

ip-proto_proto-name-list_port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-name-list_port-ind_oper*

Type: Object

ip-proto_proto-name-list_port-ind_oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

ip-proto_proto-name-list_port-ind_oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

ip-proto_proto-name-list_port-ind_oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

ip-proto_proto-name-list_port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

ip-proto_proto-name-list_port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

ip-proto_proto-name-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-name-list_ip-filtering-policy-statistics_oper*

Type: Object

ip-proto_proto-name-list_ip-filtering-policy-statistics_oper

Specification	Value
Type	*object*

rule-list

Type: List

ip-proto_proto-name-list_ip-filtering-policy-statistics_oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

ip-proto_proto-name-list_topk-destinations

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-name-list_topk-destinations_oper*

Type: Object

ip-proto_proto-name-list_topk-destinations_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

ip-proto_proto-name-list_topk-destinations_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

ip-proto_proto-name-list_topk-destinations_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

ip-proto_proto-name-list_topk-destinations_oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

ip-proto_proto-name-list_topk-destinations_oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

ip-proto_proto-name-list_topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-name-list_topk-sources_oper*

Type: Object

ip-proto_proto-name-list_topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

ip-proto_proto-name-list_topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

ip-proto_proto-name-list_topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

ip-proto_proto-name-list_topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

ip-proto_proto-name-list_topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

ip-proto_proto-name-list_progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-name-list_progression-tracking_oper*

Type: Object

ip-proto_proto-name-list_progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

ip-proto_proto-name-list_progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

ip-proto_proto-tcp-udp-list

Specification	Value
Type	*list*
Block object keys	

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-proto_proto-tcp-udp-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/ip-filtering-policy-statistics*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-tcp-udp-list_oper*

Type: Object

protocol

Description 'tcp': ip-proto tcp; 'udp': ip-proto udp;

Type: string

Supported Values: tcp, udp

ip-proto_proto-tcp-udp-list_oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

ip-proto_proto-tcp-udp-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

ip-proto_proto-tcp-udp-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-proto_proto-tcp-udp-list_ip-filtering-policy-statistics_oper*

Type: Object

ip-proto_proto-tcp-udp-list_ip-filtering-policy-statistics_oper

Specification	Value
Type	*object*

rule-list

Type: List

ip-proto_proto-tcp-udp-list_ip-filtering-policy-statistics_oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

src-port-range-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *src-port-range-list_oper*

Type: Object

port-ind

Description: port-ind is a **JSON Block**. Please see below for *src-port-range-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind*

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

src-port-range-end

Description Src Port-Range End Port Number

Type: number

Range: 2-65535

src-port-range-start

Description Src Port-Range Start Port Number

Type: number

Range: 1-65535

src-port-range-list_oper

Specification	Value
Type	*object*

ddos_entry_list

Type: List

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

src-port-range-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

src-port-range-list_port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *src-port-range-list_port-ind_oper*

Type: Object

src-port-range-list_port-ind_oper

Specification	Value
Type	*object*

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

indicators

Type: List

src-port-range-list_port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

src-port-range-list_port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

port-range-list

Specification	Value
Type	*list*
Block object keys	

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *port-range-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics*

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_oper*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *port-range-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *port-range-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-range-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *port-range-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/topk-destinations/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp, quic

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/topk-destinations/progression-tracking/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *port-range-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-*

name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/topk-destinations

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *port-range-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources*

virtualhosts

Description: virtualhosts is a **JSON Block**. Please see below for *port-range-list_virtualhosts*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/topk-destinations/progression-tracking/virtualhosts*

port-range-list_oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

port-range-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

http-filter-rates

Type: List

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

response-size-rates

Type: List

sflow-source-id

Description

Type: number

port-range-list_oper_ddos_entry_list_response-size-rates

Specification	Value
Type	*list*
Block object keys	

current-response-size-rate

Description

Type: string

is-response-size-rate-limit-exceed

Description

Type: number

response-size-rate-limit

Description

Type: string

response-size-rate-name

Description

Type: string

port-range-list_oper_ddos_entry_list_http-filter-rates

Specification	Value
Type	*list*
Block object keys	

current-http-filter-rate

Description

Type: string

http-filter-rate-limit

Description

Type: string

http-filter-rate-name

Description

Type: string

is-http-filter-rate-limit-exceed

Description

Type: number

port-range-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

oper

Type: Object

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/topk-destinations/progression-tracking/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-range-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_src-based-policy-list_policy-class-list-list_oper*

Type: Object

port-range-list_src-based-policy-list_policy-class-list-list_oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

port-range-list_progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_progression-tracking_oper*

Type: Object

port-range-list_progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

port-range-list_progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

port-range-list_pattern-recognition

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_pattern-recognition_oper*

Type: Object

port-range-list_pattern-recognition_oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

port-range-list_pattern-recognition_oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

port-range-list_virtualhosts

Specification	Value
Type	*object*

oper

Type: Object

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/topk-destinations/progression-tracking/virtualhosts/virtualhost/{vhost}*

port-range-list_virtualhosts_virtualhost-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_virtualhosts_virtualhost-list_oper*

Type: Object

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port-range-list_virtualhosts_virtualhost-list_oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

port-range-list_virtualhosts_virtualhost-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

http-filter-rates

Type: List

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

response-size-rates

Type: List

sflow-source-id

Description

Type: number

port-range-list_virtualhosts_virtualhost-list_oper_ddos_entry_list_response-size-rates

Specification	Value
Type	*list*
Block object keys	

current-response-size-rate

Description

Type: string

is-response-size-rate-limit-exceed

Description

Type: number

response-size-rate-limit

Description

Type: string

response-size-rate-name

Description

Type: string

port-range-list_virtualhosts_virtualhost-list_oper_ddos_entry_list_http-filter-rates

Specification	Value
Type	*list*
Block object keys	

current-http-filter-rate

Description

Type: string

http-filter-rate-limit

Description

Type: string

http-filter-rate-name

Description

Type: string

is-http-filter-rate-limit-exceed

Description

Type: number

port-range-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_pattern-recognition-pu-details_oper*

Type: Object

port-range-list_pattern-recognition-pu-details_oper

Specification	Value
Type	*object*

all-filters

Type: List

port-range-list_pattern-recognition-pu-details_oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

port-range-list_pattern-recognition-pu-details_oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

port-range-list_port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_port-ind_oper*

Type: Object

port-range-list_port-ind_oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

port-range-list_port-ind_oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

port-range-list_port-ind_oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

port-range-list_port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

port-range-list_port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

port-range-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_ip-filtering-policy-statistics_oper*

Type: Object

port-range-list_ip-filtering-policy-statistics_oper

Specification	Value
Type	*object*

rule-list

Type: List

port-range-list_ip-filtering-policy-statistics_oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

port-range-list_topk-destinations

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_topk-destinations_oper*

Type: Object

port-range-list_topk-destinations_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

port-range-list_topk-destinations_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

port-range-list_topk-destinations_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

port-range-list_topk-destinations_oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

port-range-list_topk-destinations_oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

port-range-list_topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-range-list_topk-sources_oper*

Type: Object

port-range-list_topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

port-range-list_topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

port-range-list_topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

port-range-list_topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

port-range-list_topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

port

Specification	Value
Type	*object*

oper

Type: Object

zone-service-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}*

zone-service-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}*

port_zone-service-list

Specification	Value
Type	*list*
Block object keys	

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *port_zone-service-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-list_oper*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *port_zone-service-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *port_zone-service-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port_zone-service-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind*

port-num

Description Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *port_zone-service-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp, quic

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/topk-destinations/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *port_zone-service-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/topk-destinations*

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *port_zone-service-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources*

virtualhosts

Description: virtualhosts is a **JSON Block**. Please see below for *port_zone-service-list_virtualhosts*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/topk-destinations/virtualhosts*

port_zone-service-list_oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted-stats

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

port_zone-service-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

http-filter-rates

Type: List

hw-blocked-rules

Type: List

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

response-size-rates

Type: List

sflow-source-id

Description

Type: number

port_zone-service-list_oper_ddos_entry_list_hw-blocked-rules

Specification	Value
Type	*list*
Block object keys	

hw-blocking-state

Description

Type: string

rule-dst-ip

Description

Type: string

port_zone-service-list_oper_ddos_entry_list_response-size-rates

Specification	Value
Type	*list*
Block object keys	

current-response-size-rate

Description

Type: string

is-response-size-rate-limit-exceed

Description

Type: number

response-size-rate-limit

Description

Type: string

response-size-rate-name

Description

Type: string

port_zone-service-list_oper_ddos_entry_list_http-filter-rates

Specification	Value
Type	*list*
Block object keys	

current-http-filter-rate

Description

Type: string

http-filter-rate-limit

Description

Type: string

http-filter-rate-name

Description

Type: string

is-http-filter-rate-limit-exceed

Description

Type: number

port_zone-service-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

oper

Type: Object

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/topk-destinations/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port_zone-service-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-list_src-based-policy-list_policy-class-list-list_oper*

Type: Object

port_zone-service-list_src-based-policy-list_policy-class-list-list_oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

port_zone-service-list_pattern-recognition

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-list_pattern-recognition_oper*

Type: Object

port_zone-service-list_pattern-recognition_oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

port_zone-service-list_pattern-recognition_oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

port_zone-service-list_virtualhosts

Specification	Value
Type	*object*

oper

Type: Object

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-*

num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/topk-destinations/virtualhosts/virtualhost/{vhost}

port_zone-service-list_virtualhosts_virtualhost-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-list_virtualhosts_virtualhost-list_oper*

Type: Object

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port_zone-service-list_virtualhosts_virtualhost-list_oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

port_zone-service-list_virtualhosts_virtualhost-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

http-filter-rates

Type: List

hw-blocked-rules

Type: List

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

response-size-rates

Type: List

sflow-source-id

Description

Type: number

port_zone-service-list_virtualhosts_virtualhost-list_oper_ddos_entry_list_hw-blocked-rules

Specification	Value
Type	*list*
Block object keys	

hw-blocking-state

Description

Type: string

rule-dst-ip

Description

Type: string

port_zone-service-list_virtualhosts_virtualhost-list_oper_ddos_entry_list_response-size-rates

Specification	Value
Type	*list*
Block object keys	

current-response-size-rate

Description

Type: string

is-response-size-rate-limit-exceed

Description

Type: number

response-size-rate-limit

Description

Type: string

response-size-rate-name

Description

Type: string

port_zone-service-list_virtualhosts_virtualhost-list_oper_ddos_entry_list_http-filter-rates

Specification	Value
Type	*list*
Block object keys	

current-http-filter-rate

Description

Type: string

http-filter-rate-limit

Description

Type: string

http-filter-rate-name

Description

Type: string

is-http-filter-rate-limit-exceed

Description

Type: number

port_zone-service-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-list_pattern-recognition-pu-details_oper*

Type: Object

port_zone-service-list_pattern-recognition-pu-details_oper

Specification	Value
Type	*object*

all-filters

Type: List

port_zone-service-list_pattern-recognition-pu-details_oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

port_zone-service-list_pattern-recognition-pu-details_oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

port_zone-service-list_port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-list_port-ind_oper*

Type: Object

port_zone-service-list_port-ind_oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

port_zone-service-list_port-ind_oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

port_zone-service-list_port-ind_oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

port_zone-service-list_port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

port_zone-service-list_port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

port_zone-service-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-list_ip-filtering-policy-statistics_oper*

Type: Object

port_zone-service-list_ip-filtering-policy-statistics_oper

Specification	Value
Type	*object*

rule-list

Type: List

port_zone-service-list_ip-filtering-policy-statistics_oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

port_zone-service-list_topk-destinations

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-list_topk-destinations_oper*

Type: Object

port_zone-service-list_topk-destinations_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

port_zone-service-list_topk-destinations_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

port_zone-service-list_topk-destinations_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

port_zone-service-list_topk-destinations_oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

port_zone-service-list_topk-destinations_oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

port_zone-service-list_topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-list_topk-sources_oper*

Type: Object

port_zone-service-list_topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

port_zone-service-list_topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

port_zone-service-list_topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

port_zone-service-list_topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

port_zone-service-list_topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

port_zone-service-list_progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-list_progression-tracking_oper*

Type: Object

port_zone-service-list_progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

port_zone-service-list_progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

port_zone-service-other-list

Specification	Value
Type	*list*
Block object keys	

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *port_zone-service-other-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-other-list_oper*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *port_zone-service-other-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *port_zone-service-other-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-*

num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port_zone-service-other-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *port_zone-service-other-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/progression-tracking*

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-*

name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/progression-tracking/topk-destinations/src-based-policy/{src-based-policy-name}

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *port_zone-service-other-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/progression-tracking/topk-destinations*

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *port_zone-service-other-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources*

port_zone-service-other-list_oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

port_zone-service-other-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

port_zone-service-other-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

oper

Type: Object

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/detection/outbound-detection/packet-anomaly-detection/outbound-policy/topk-destinations/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/src-port/zone-src-port/{port-num}+{protocol}/ip-proto/proto-number/{protocol-num}/ip-filtering-policy-statistics/port-ind/topk-sources/topk-destinations/proto-tcp-udp/{protocol}/proto-name/{protocol}/ip-filtering-policy-statistics/port-ind/topk-sources/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/progression-tracking/topk-destinations/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

port_zone-service-other-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-other-list_src-based-policy-list_policy-class-list-list_oper*

Type: Object

port_zone-service-other-list_src-based-policy-list_policy-class-list-list_oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

port_zone-service-other-list_pattern-recognition

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-other-list_pattern-recognition_oper*

Type: Object

port_zone-service-other-list_pattern-recognition_oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

port_zone-service-other-list_pattern-recognition_oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

port_zone-service-other-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-other-list_pattern-recognition-pu-details_oper*

Type: Object

port_zone-service-other-list_pattern-recognition-pu-details_oper

Specification	Value
Type	*object*

all-filters

Type: List

port_zone-service-other-list_pattern-recognition-pu-details_oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

port_zone-service-other-list_pattern-recognition-pu-details_oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

port_zone-service-other-list_port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-other-list_port-ind_oper*

Type: Object

port_zone-service-other-list_port-ind_oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

port_zone-service-other-list_port-ind_oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

port_zone-service-other-list_port-ind_oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

port_zone-service-other-list_port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

port_zone-service-other-list_port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

port_zone-service-other-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-other-list_ip-filtering-policy-statistics_oper*

Type: Object

port_zone-service-other-list_ip-filtering-policy-statistics_oper

Specification	Value
Type	*object*

rule-list

Type: List

port_zone-service-other-list_ip-filtering-policy-statistics_oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

port_zone-service-other-list_topk-destinations

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-other-list_topk-destinations_oper*

Type: Object

port_zone-service-other-list_topk-destinations_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

port_zone-service-other-list_topk-destinations_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

port_zone-service-other-list_topk-destinations_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

port_zone-service-other-list_topk-destinations_oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

port_zone-service-other-list_topk-destinations_oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

port_zone-service-other-list_topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-other-list_topk-sources_oper*

Type: Object

port_zone-service-other-list_topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

port_zone-service-other-list_topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

port_zone-service-other-list_topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

port_zone-service-other-list_topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

port_zone-service-other-list_topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

port_zone-service-other-list_progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port_zone-service-other-list_progression-tracking_oper*

Type: Object

port_zone-service-other-list_progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

port_zone-service-other-list_progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

topk-destinations

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-destinations_oper*

Type: Object

topk-destinations_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-destinations_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-destinations_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-destinations_oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

topk-destinations_oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.215 ddos dst zone outbound-policy

DDOS Outbound Policy

outbound-policy Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	outbound-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy
Element Attributes	outbound-policy_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy/oper
Schema	`outbound-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy

outbound-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy

outbound-policy attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy

outbound-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy

outbound-policy attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy

outbound-policy attributes

outbound-policy attributes

name

Description Specify name of the outbound policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/outbound-policy*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.216 ddos dst zone outbound-policy oper

Operational Status for the object outbound-policy

outbound-policy Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	outbound-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy/oper
Element Attributes	outbound-policy_attributes
Partition Visibility	None
Schema	`outbound-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy/oper

outbound-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy/oper

outbound-policy attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy/oper

outbound-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy/oper

outbound-policy attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/outbound-policy/oper

outbound-policy attributes

outbound-policy attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

geo-tracking-statistics

Description: geo-tracking-statistics is a **JSON Block**. Please see below for *oper_geo-tracking-statistics*

Type: Object

no-class-list-match

Description

Type: number

policy-class-list

Type: List

policy-name

Description

Type: string

policy-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

policy-statistics

Description

Type: boolean

Supported Values: true, false, 1, 0

tracking-entry-filter

Description

Type: boolean

Supported Values: true, false, 1, 0

tracking-entry-list

Type: List

oper_geo-tracking-statistics

Specification	Value
Type	*object*

connection-rate-exceed

Description

Type: number

connections-exceed

Description

Type: number

frag-packet-rate

Description

Type: number

kBit-rate-exceed

Description

Type: number

kBit-rate-exceed-count

Description

Type: number

packet-dropped

Description

Type: number

packet-rate-exceed

Description

Type: number

packet-received

Description

Type: number

tracking-entry-aged

Description

Type: number

tracking-entry-learn

Description

Type: number

tracking-entry-learning-thre-exceed

Description

Type: number

oper_policy-class-list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

class-list-name

Description

Type: string

connection-limit

Description

Type: string

connection-rate-exceed

Description

Type: number

connection-rate-limit

Description

Type: string

connections-exceed

Description

Type: number

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

frag-packet-rate

Description

Type: number

frag-packet-rate-limit

Description

Type: string

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-exceed

Description

Type: number

kBit-rate-exceed-count

Description

Type: number

kBit-rate-limit

Description

Type: string

lockup-time

Description

Type: number

packet-dropped

Description

Type: number

packet-rate-exceed

Description

Type: number

packet-rate-limit

Description

Type: string

packet-received

Description

Type: number

oper_tracking-entry-list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

frag-packet-rate-limit

Description

Type: string

geo-location-name

Description

Type: string

Format: string-rlx

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: string

packet-rate-limit

Description

Type: string

2.33.217 ddos dst zone packet-anomaly-detection

DDos Packet Anomaly detections

packet-anomaly-detection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	packet-anomaly-detection
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection
Element Attributes	packet-anomaly-detection_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection/oper
Schema	`packet-anomaly-detection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection

packet-anomaly-detection attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection

packet-anomaly-detection attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection

packet-anomaly-detection attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection

packet-anomaly-detection attributes

packet-anomaly-detection attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.218 ddos dst zone packet-anomaly-detection oper

Operational Status for the object packet-anomaly-detection

packet-anomaly-detection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	packet-anomaly-detection
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection/oper
Element Attributes	packet-anomaly-detection_attributes
Partition Visibility	None
Schema	`packet-anomaly-detection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection/oper

packet-anomaly-detection attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection/oper

packet-anomaly-detection attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection/oper

packet-anomaly-detection attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/packet-anomaly-detection/oper

packet-anomaly-detection attributes

packet-anomaly-detection attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

data-source

Description

Type: string

indicators

Type: List

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

is-anomaly

Description

Type: number

maximum

Description

Type: string

minimum

Description

Type: string

rate

Description

Type: string

threshold

Description

Type: string

2.33.219 ddos dst zone port

DDOS IP protocol configuration

port Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	port
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port
Element Attributes	port_attributes
Partition Visibility	shared
Schema	`port schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port

port_attributes

port attributes

zone-service-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}*

zone-service-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}*

zone-service-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config

Description: capture-config is a **JSON Block**. Please see below for *zone-service-list_capture-config*

Type: Object

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-service-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *zone-service-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *zone-service-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *zone-service-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *zone-service-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind*

port-num

Description Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *zone-service-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp, quic

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-ip-filtering-policy, sflow-tcp-basic, sflow-tcp-stateful, and sflow-http are mutually exclusive

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-http and sflow-common are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *zone-service-list_sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *zone-service-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *zone-service-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

virtualhosts

Description: virtualhosts is a **JSON Block**. Please see below for *zone-service-list_virtualhosts*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts*

zone-service-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

app-payload-offset

Description Set offset of the payload

Type: number

Range: 0-1500

Default: 0

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-service-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

zone-service-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-service-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

zone-service-list_level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-signature-extraction

Description Start signature extraction from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-service-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-service-list_level-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-service-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-service-list_virtualhosts

Specification	Value
Type	*object*

source-tracking-all

Description enable creation of source entries for all virtualhosts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhosts-config

Description 'configuration': configure virtualhost based mitigation for ssl services;

Type: string

Supported Values: configuration

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}*

zone-service-list_virtualhosts_virtualhost-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-service-list_virtualhosts_virtualhost-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}*

servername

Type: List

servername-list

Description Class List to match servername (AC type Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername-match-any

Description Match when there is no SNI or other servernames are not matched

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

servername-no-sni

Description Match when there is no SNI extension found

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-tracking

Description 'follow': enable creation of source entries when source-tracking-all is enabled (default); 'enable': enable creation of source entries on this virtualhost; 'disable': disable creation of source entries on this virtualhost;

Type: string

Supported Values: follow, enable, disable

Default: follow

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-service-list_virtualhosts_virtualhost-list_servername

Specification	Value
Type	*list*
Block object keys	

host-match-string

Description SNI String

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'contains': match servername extension when contains this string; 'ends-with': match servername extension when ends with this string; 'equals': match servername extension when equals this string; 'starts-with': match servername extension when starts with this string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

zone-service-list_virtualhosts_virtualhost-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

zone-service-list_virtualhosts_virtualhost-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-service-list_virtualhosts_virtualhost-list_level-list_zone-template*

Type: Object

zone-service-list_virtualhosts_virtualhost-list_level-list_zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-service-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-service-list_manual-mode-list_zone-template*

Type: Object

zone-service-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-service-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, quic, dns, http, ssl-l4, sip, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-service-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

zone-service-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

zone-service-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns and class-list-glid are mutually exclusive

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: quic and class-list-glid are mutually exclusive

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip and class-list-glid are mutually exclusive

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4 and class-list-glid are mutually exclusive

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

zone-service-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-service-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

zone-service-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-service-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current;

'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold,

ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

zone-service-list_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

zone-service-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-list_capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-service-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-other-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for this zone port or each class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-service-other-list_glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *zone-service-other-list_ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *zone-service-other-list_pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *zone-service-other-list_pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *zone-service-other-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *zone-service-other-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking*

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-tcp-basic, sflow-tcp-stateful, and sflow-ip-filtering-policy are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *zone-service-other-list_sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *zone-service-other-list_topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *zone-service-other-list_topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-other-list_pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-other-list_progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-other-list_dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-service-other-list_dynamic-entry-overflow-policy-list_zone-template*

Type: Object

zone-service-other-list_dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-service-other-list_glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

zone-service-other-list_level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-service-other-list_level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-service-other-list_level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-service-other-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-service-other-list_manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-service-other-list_manual-mode-list_zone-template*

Type: Object

zone-service-other-list_manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-service-other-list_src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-other-list_src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-service-other-list_src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

zone-service-other-list_src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

zone-service-other-list_src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

zone-service-other-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-service-other-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

zone-service-other-list_src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

zone-service-other-list_pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-other-list_port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-other-list_port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold;

'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

zone-service-other-list_sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

zone-service-other-list_topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-other-list_topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-other-list_ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.220 ddos dst zone port-range

DDOS Port-Range & Protocol configuration

port-range Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-range-start, port-range-end, protocol*
Collection Name	*port-range-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range
Element Name	port-range
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}
Element Attributes	port-range_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/oper
Schema	`port-range schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range

port-range attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range

port-range attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range

port-range-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range

port-range-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

port-range-list

port-range-list is **JSON List** of *port-range attributes*

```
port-range-list : [
        { port-range attributes },
        { port-range attributes },
        ...
    ]
```

port-range attributes

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config

Description: capture-config is a **JSON Block**. Please see below for *capture-config*

Type: Object

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified under zone port or each class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp, quic

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-ip-filtering-policy, sflow-tcp-basic, sflow-tcp-stateful, and sflow-http are mutually exclusive

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-http and sflow-common are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

virtualhosts

Description: virtualhosts is a **JSON Block**. Please see below for *virtualhosts*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts*

pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

app-payload-offset

Description Set offset of the payload, default 0

Type: number

Range: 0-1500

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_zone-template*

Type: Object

dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

level-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

virtualhosts

Specification	Value
Type	*object*

source-tracking-all

Description enables creation of source entries for all virtualhosts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhosts-config

Description 'configuration': configure virtualhost based mitigation for ssl services;

Type: string

Supported Values: configuration

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}*

virtualhosts_virtualhost-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *virtualhosts_virtualhost-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}*

servername

Type: List

servername-list

Description Class List to match servername (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername-match-any

Description Match when there is no SNI or other servernames are not matched

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-tracking

Description 'follow': enable creation of source entries when source-tracking-all is enabled (default); 'enable': enable creation of source entries on this virtualhost; 'disable': disable creation of source entries on this virtualhost;

Type: string

Supported Values: follow, enable, disable

Default: follow

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

virtualhosts_virtualhost-list_servername

Specification	Value
Type	*list*
Block object keys	

host-match-string

Description SNI String

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'contains': match servername extension when contains this string; 'ends-with': match servername extension when ends with this string; 'equals': match servername extension when equals this string; 'starts-with': match servername extension when starts with this string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

virtualhosts_virtualhost-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

virtualhosts_virtualhost-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *virtualhosts_virtualhost-list_level-list_zone-template*

Type: Object

virtualhosts_virtualhost-list_level-list_zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *manual-mode-list_zone-template*

Type: Object

manual-mode-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, quic, dns, http, ssl-l4, sip, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns and class-list-glid are mutually exclusive

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: quic and class-list-glid are mutually exclusive

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip and class-list-glid are mutually exclusive

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4 and class-list-glid are mutually exclusive

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current;

‘ddet_ind_pkt_drop_ratio_min’: Pkt Drop / Pkt Rcvd Min; ‘ddet_ind_pkt_drop_ratio_max’: Pkt Drop / Pkt Rcvd Max; ‘ddet_ind_pkt_drop_ratio_adaptive_threshold’: Pkt Drop / Pkt Rcvd Adaptive Threshold; ‘ddet_ind_inb_per_outb_current’: Bytes-to / Bytes-from Current; ‘ddet_ind_inb_per_outb_min’: Bytes-to / Bytes-from Min; ‘ddet_ind_inb_per_outb_max’: Bytes-to / Bytes-from Max; ‘ddet_ind_inb_per_outb_adaptive_threshold’: Bytes-to / Bytes-from Adaptive Threshold; ‘ddet_ind_syn_per_fin_rate_current’: TCP SYN Rate / FIN Rate Current; ‘ddet_ind_syn_per_fin_rate_min’: TCP SYN Rate / FIN Rate Min; ‘ddet_ind_syn_per_fin_rate_max’: TCP SYN Rate / FIN Rate Max; ‘ddet_ind_syn_per_fin_rate_adaptive_threshold’: TCP SYN Rate / FIN Rate Adaptive Threshold; ‘ddet_ind_conn_miss_rate_current’: TCP Session Miss Rate Current; ‘ddet_ind_conn_miss_rate_min’: TCP Session Miss Rate Min; ‘ddet_ind_conn_miss_rate_max’: TCP Session Miss Rate Max; ‘ddet_ind_conn_miss_rate_adaptive_threshold’: TCP Session Miss Rate Adaptive Threshold; ‘ddet_ind_concurrent_conns_current’: TCP/UDP Concurrent Sessions Current; ‘ddet_ind_concurrent_conns_min’: TCP/UDP Concurrent Sessions Min; ‘ddet_ind_concurrent_conns_max’: TCP/UDP Concurrent Sessions Max; ‘ddet_ind_concurrent_conns_adaptive_threshold’: TCP/UDP Concurrent Sessions Adaptive Threshold; ‘ddet_ind_data_cpu_util_current’: Data CPU Utilization Current; ‘ddet_ind_data_cpu_util_min’: Data CPU Utilization Min; ‘ddet_ind_data_cpu_util_max’: Data CPU Utilization Max; ‘ddet_ind_data_cpu_util_adaptive_threshold’: Data CPU Utilization Adaptive Threshold; ‘ddet_ind_outside_intf_util_current’: Outside Interface Utilization Current; ‘ddet_ind_outside_intf_util_min’: Outside Interface Utilization Min; ‘ddet_ind_outside_intf_util_max’: Outside Interface Utilization Max; ‘ddet_ind_outside_intf_util_adaptive_threshold’: Outside Interface Utilization Adaptive Threshold; ‘ddet_ind_frag_rate_current’: Frag Pkt Rate Current; ‘ddet_ind_frag_rate_min’: Frag Pkt Rate Min; ‘ddet_ind_frag_rate_max’: Frag Pkt Rate Max; ‘ddet_ind_frag_rate_adaptive_threshold’: Frag Pkt Rate Adaptive Threshold; ‘ddet_ind_bit_rate_current’: Bit Rate Current; ‘ddet_ind_bit_rate_min’: Bit Rate Min; ‘ddet_ind_bit_rate_max’: Bit Rate Max; ‘ddet_ind_bit_rate_adaptive_threshold’: Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold,

ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.221 ddos dst zone port-range dynamic-entry-overflow-policy

Configure overflow policy

dynamic-entry-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dummy-name*
Collection Name	*dynamic-entry-overflow-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy
Element Name	dynamic-entry-overflow-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}
Element Attributes	dynamic-entry-overflow-policy_attributes
Partition Visibility	shared
Schema	`dynamic-entry-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

dynamic-entry-overflow-policy-list

dynamic-entry-overflow-policy-list is **JSON List** of *dynamic-entry-overflow-policy attributes*

dynamic-entry-overflow-policy-list : [

{ *dynamic-entry-overflow-policy attributes* },

{ *dynamic-entry-overflow-policy attributes* },

...

]

dynamic-entry-overflow-policy attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.222 ddos dst zone port-range ip-filtering-policy-statistics

IP Filter

ip-filtering-policy-statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-filtering-policy-statistics
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics
Element Attributes	ip-filtering-policy-statistics_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/oper
Schema	`ip-filtering-policy-statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

ip-filtering-policy-statistics attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.223 ddos dst zone port-range ip-filtering-policy-statistics oper

Operational Status for the object ip-filtering-policy-statistics

ip-filtering-policy-statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-filtering-policy-statistics
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/oper
Element Attributes	ip-filtering-policy-statistics_attributes
Partition Visibility	None
Schema	`ip-filtering-policy-statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

ip-filtering-policy-statistics attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

rule-list

Type: List

oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

2.33.224 ddos dst zone port-range level

Policy Level Configuration

level Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*level-num*
Collection Name	*level-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level
Element Name	level
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}
Element Attributes	level_attributes
Partition Visibility	shared
Schema	`level schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level

level attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level

level attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}

level attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level

level-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}

level attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}

level attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level

level-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}

level attributes

level-list

level-list is **JSON List** of *level attributes*

level-list : [

{ *level attributes* },

{ *level attributes* },

...

]

level attributes

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

2.33.225 ddos dst zone port-range level indicator

DDoS Indicator Configuration

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator/{type}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

indicator-list : [

{ *indicator attributes* },

{ *indicator attributes* },

...

]

indicator attributes

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

2.33.226 ddos dst zone port-range manual-mode

Enter manual-mode configuration

manual-mode Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*config*
Collection Name	*manual-mode-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode
Element Name	manual-mode
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode/{config}
Element Attributes	manual-mode_attributes
Partition Visibility	shared
Schema	`manual-mode schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode

manual-mode attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode

manual-mode attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode/{config}

manual-mode attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode

manual-mode-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode/{config}

manual-mode attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode/{config}

manual-mode attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode

manual-mode-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/manual-mode/{config}

manual-mode attributes

manual-mode-list

manual-mode-list is **JSON List** of *manual-mode attributes*

```
manual-mode-list : [
        { manual-mode attributes },
        { manual-mode attributes },
        ...
    ]
```

manual-mode attributes

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.227 ddos dst zone port-range oper

Operational Status for the object port-range

port-range Specification

Parameter	Value
Type	*Collection*
Collection Name	*port-range-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}
Element Name	port-range
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/oper
Element Attributes	port-range_attributes
Partition Visibility	None
Schema	`port-range schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/oper

port-range attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/oper

port-range attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/oper

port-range attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/oper

port-range attributes

port-range-list

port-range-list is **JSON List** of *port-range attributes*

port-range-list : [

{ *port-range attributes* },

{ *port-range attributes* },

...

]

port-range attributes

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics*

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/topk-destinations/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp, quic

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/topk-destinations/progression-tracking/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/topk-destinations*

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources*

virtualhosts

Description: virtualhosts is a **JSON Block**. Please see below for *virtualhosts*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/topk-destinations/progression-tracking/virtualhosts*

oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

http-filter-rates

Type: List

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

response-size-rates

Type: List

sflow-source-id

Description

Type: number

oper_ddos_entry_list_response-size-rates

Specification	Value
Type	*list*
Block object keys	

current-response-size-rate

Description

Type: string

is-response-size-rate-limit-exceed

Description

Type: number

response-size-rate-limit

Description

Type: string

response-size-rate-name

Description

Type: string

oper_ddos_entry_list_http-filter-rates

Specification	Value
Type	*list*
Block object keys	

current-http-filter-rate

Description

Type: string

http-filter-rate-limit

Description

Type: string

http-filter-rate-name

Description

Type: string

is-http-filter-rate-limit-exceed

Description

Type: number

src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

oper

Type: Object

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/topk-destinations/progression-tracking/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_oper*

Type: Object

src-based-policy-list_policy-class-list-list_oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *progression-tracking_oper*

Type: Object

progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

pattern-recognition

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *pattern-recognition_oper*

Type: Object

pattern-recognition_oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

pattern-recognition_oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

virtualhosts

Specification	Value
Type	*object*

oper

Type: Object

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/topk-destinations/progression-tracking/virtualhosts/virtualhost/{vhost}*

virtualhosts_virtualhost-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *virtualhosts_virtualhost-list_oper*

Type: Object

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

virtualhosts_virtualhost-list_oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

virtualhosts_virtualhost-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

http-filter-rates

Type: List

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

response-size-rates

Type: List

sflow-source-id

Description

Type: number

virtualhosts_virtualhost-list_oper_ddos_entry_list_response-size-rates

Specification	Value
Type	*list*
Block object keys	

current-response-size-rate

Description

Type: string

is-response-size-rate-limit-exceed

Description

Type: number

response-size-rate-limit

Description

Type: string

response-size-rate-name

Description

Type: string

virtualhosts_virtualhost-list_oper_ddos_entry_list_http-filter-rates

Specification	Value
Type	*list*
Block object keys	

current-http-filter-rate

Description

Type: string

http-filter-rate-limit

Description

Type: string

http-filter-rate-name

Description

Type: string

is-http-filter-rate-limit-exceed

Description

Type: number

pattern-recognition-pu-details

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *pattern-recognition-pu-details_oper*

Type: Object

pattern-recognition-pu-details_oper

Specification	Value
Type	*object*

all-filters

Type: List

pattern-recognition-pu-details_oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

pattern-recognition-pu-details_oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-ind_oper*

Type: Object

port-ind_oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

port-ind_oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

port-ind_oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

ip-filtering-policy-statistics

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-filtering-policy-statistics_oper*

Type: Object

ip-filtering-policy-statistics_oper

Specification	Value
Type	*object*

rule-list

Type: List

ip-filtering-policy-statistics_oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

topk-destinations

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-destinations_oper*

Type: Object

topk-destinations_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-destinations_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-destinations_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-destinations_oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

topk-destinations_oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-sources_oper*

Type: Object

topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.228 ddos dst zone port-range pattern-recognition

Enable Pattern Recognition

pattern-recognition Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition
Element Attributes	pattern-recognition_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper
Schema	`pattern-recognition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition

pattern-recognition attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition

pattern-recognition attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition

pattern-recognition attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition

pattern-recognition attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition

pattern-recognition attributes

pattern-recognition attributes

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

app-payload-offset

Description Set offset of the payload, default 0

Type: number

Range: 0-1500

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.229 ddos dst zone port-range pattern-recognition oper

Operational Status for the object pattern-recognition

pattern-recognition Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper
Element Attributes	pattern-recognition_attributes
Partition Visibility	None
Schema	`pattern-recognition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

pattern-recognition attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

2.33.230 ddos dst zone port-range pattern-recognition-pu-details

pattern-recognition-pu-details Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition-pu-details
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details
Element Attributes	pattern-recognition-pu-details_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details/oper
Schema	`pattern-recognition-pu-details schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

pattern-recognition-pu-details attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.231 ddos dst zone port-range pattern-recognition-pu-details oper

Operational Status for the object pattern-recognition-pu-details

pattern-recognition-pu-details Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition-pu-details
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details/oper
Element Attributes	pattern-recognition-pu-details_attributes
Partition Visibility	None
Schema	`pattern-recognition-pu-details schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

pattern-recognition-pu-details attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-filters

Type: List

oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

2.33.232 ddos dst zone port-range port-ind

zone port indicators

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind
Element Attributes	port-ind_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/oper
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind

port-ind attributes

port-ind attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max;

'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold,

ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

2.33.233 ddos dst zone port-range port-ind oper

Operational Status for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/oper
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/oper

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/oper

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/oper

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/oper

port-ind attributes

port-ind attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

2.33.234 ddos dst zone port-range port-ind stats

Statistics for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/stats
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/stats

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/stats

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/stats

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/port-ind/stats

port-ind attributes

port-ind attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ddet_ind_bit_rate_adaptive_threshold

Description Bit Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_bit_rate_current

Description Bit Rate Current

Type: number

Format: counter

ddet_ind_bit_rate_max

Description Bit Rate Max

Type: number

Format: counter

ddet_ind_bit_rate_min

Description Bit Rate Min

Type: number

Format: counter

ddet_ind_concurrent_conns_adaptive_threshold

Description TCP/UDP Concurrent Sessions Adaptive Threshold

Type: number

Format: counter

ddet_ind_concurrent_conns_current

Description TCP/UDP Concurrent Sessions Current

Type: number

Format: counter

ddet_ind_concurrent_conns_max

Description TCP/UDP Concurrent Sessions Max

Type: number

Format: counter

ddet_ind_concurrent_conns_min

Description TCP/UDP Concurrent Sessions Min

Type: number

Format: counter

ddet_ind_conn_miss_rate_adaptive_threshold

Description TCP Session Miss Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_conn_miss_rate_current

Description TCP Session Miss Rate Current

Type: number

Format: counter

ddet_ind_conn_miss_rate_max

Description TCP Session Miss Rate Max

Type: number

Format: counter

ddet_ind_conn_miss_rate_min

Description TCP Session Miss Rate Min

Type: number

Format: counter

ddet_ind_data_cpu_util_adaptive_threshold

Description Data CPU Utilization Adaptive Threshold

Type: number

Format: counter

ddet_ind_data_cpu_util_current

Description Data CPU Utilization Current

Type: number

Format: counter

ddet_ind_data_cpu_util_max

Description Data CPU Utilization Max

Type: number

Format: counter

ddet_ind_data_cpu_util_min

Description Data CPU Utilization Min

Type: number

Format: counter

ddet_ind_empty_ack_rate_adaptive_threshold

Description TCP Empty ACK Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_empty_ack_rate_current

Description TCP Empty ACK Rate Current

Type: number

Format: counter

ddet_ind_empty_ack_rate_max

Description TCP Empty ACK Rate Max

Type: number

Format: counter

ddet_ind_empty_ack_rate_min

Description TCP Empty ACK Rate Min

Type: number

Format: counter

ddet_ind_fin_rate_adaptive_threshold

Description TCP FIN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_fin_rate_current

Description TCP FIN Rate Current

Type: number

Format: counter

ddet_ind_fin_rate_max

Description TCP FIN Rate Max

Type: number

Format: counter

ddet_ind_fin_rate_min

Description TCP FIN Rate Min

Type: number

Format: counter

ddet_ind_frag_rate_adaptive_threshold

Description Frag Pkt Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_frag_rate_current

Description Frag Pkt Rate Current

Type: number

Format: counter

ddet_ind_frag_rate_max

Description Frag Pkt Rate Max

Type: number

Format: counter

ddet_ind_frag_rate_min

Description Frag Pkt Rate Min

Type: number

Format: counter

ddet_ind_inb_per_outb_adaptive_threshold

Description Bytes-to / Bytes-from Adaptive Threshold

Type: number

Format: counter

ddet_ind_inb_per_outb_current

Description Bytes-to / Bytes-from Current

Type: number

Format: counter

ddet_ind_inb_per_outb_max

Description Bytes-to / Bytes-from Max

Type: number

Format: counter

ddet_ind_inb_per_outb_min

Description Bytes-to / Bytes-from Min

Type: number

Format: counter

ddet_ind_outside_intf_util_adaptive_threshold

Description Outside Interface Utilization Adaptive Threshold

Type: number

Format: counter

ddet_ind_outside_intf_util_current

Description Outside Interface Utilization Current

Type: number

Format: counter

ddet_ind_outside_intf_util_max

Description Outside Interface Utilization Max

Type: number

Format: counter

ddet_ind_outside_intf_util_min

Description Outside Interface Utilization Min

Type: number

Format: counter

ddet_ind_pkt_drop_rate_adaptive_threshold

Description Pkt Drop Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_drop_rate_current

Description Pkt Drop Rate Current

Type: number

Format: counter

ddet_ind_pkt_drop_rate_max

Description Pkt Drop Rate Max

Type: number

Format: counter

ddet_ind_pkt_drop_rate_min

Description Pkt Drop Rate Min

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_adaptive_threshold

Description Pkt Drop / Pkt Rcvd Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_current

Description Pkt Drop / Pkt Rcvd Current

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_max

Description Pkt Drop / Pkt Rcvd Max

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_min

Description Pkt Drop / Pkt Rcvd Min

Type: number

Format: counter

ddet_ind_pkt_rate_adaptive_threshold

Description Pkt Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_rate_current

Description Pkt Rate Current

Type: number

Format: counter

ddet_ind_pkt_rate_max

Description Pkt Rate Max

Type: number

Format: counter

ddet_ind_pkt_rate_min

Description Pkt Rate Min

Type: number

Format: counter

ddet_ind_rst_rate_adaptive_threshold

Description TCP RST Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_rst_rate_current

Description TCP RST Rate Current

Type: number

Format: counter

ddet_ind_rst_rate_max

Description TCP RST Rate Max

Type: number

Format: counter

ddet_ind_rst_rate_min

Description TCP RST Rate Min

Type: number

Format: counter

ddet_ind_small_payload_rate_adaptive_threshold

Description TCP Small Payload Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_small_payload_rate_current

Description TCP Small Payload Rate Current

Type: number

Format: counter

ddet_ind_small_payload_rate_max

Description TCP Small Payload Rate Max

Type: number

Format: counter

ddet_ind_small_payload_rate_min

Description TCP Small Payload Rate Min

Type: number

Format: counter

ddet_ind_small_window_ack_rate_adaptive_threshold

Description TCP Small Window ACK Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_small_window_ack_rate_current

Description TCP Small Window ACK Rate Current

Type: number

Format: counter

ddet_ind_small_window_ack_rate_max

Description TCP Small Window ACK Rate Max

Type: number

Format: counter

ddet_ind_small_window_ack_rate_min

Description TCP Small Window ACK Rate Min

Type: number

Format: counter

ddet_ind_syn_ack_rate_adaptive_threshold

Description TCP SYN ACK Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_ack_rate_current

Description TCP SYN ACK Rate Current

Type: number

Format: counter

ddet_ind_syn_ack_rate_max

Description TCP SYN ACK Rate Max

Type: number

Format: counter

ddet_ind_syn_ack_rate_min

Description TCP SYN ACK Rate Min

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_adaptive_threshold

Description TCP SYN Rate / FIN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_current

Description TCP SYN Rate / FIN Rate Current

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_max

Description TCP SYN Rate / FIN Rate Max

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_min

Description TCP SYN Rate / FIN Rate Min

Type: number

Format: counter

ddet_ind_syn_rate_adaptive_threshold

Description TCP SYN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_rate_current

Description TCP SYN Rate Current

Type: number

Format: counter

ddet_ind_syn_rate_max

Description TCP SYN Rate Max

Type: number

Format: counter

ddet_ind_syn_rate_min

Description TCP SYN Rate Min

Type: number

Format: counter

ddet_ind_total_szp_adaptive_threshold

Description Total Learnt Sources Adaptive Threshold

Type: number

Format: counter

ddet_ind_total_szp_current

Description Total Learnt Sources Current

Type: number

Format: counter

ddet_ind_total_szp_max

Description Total Learnt Sources Max

Type: number

Format: counter

ddet_ind_total_szp_min

Description Total Learnt Sources Min

Type: number

Format: counter

ip-proto-type

Description IP Protocol Type

Type: number

Format: counter

2.33.235 ddos dst zone port-range progression-tracking

DDos dst zone-service progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking
Element Attributes	progression-tracking_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking/oper
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking

progression-tracking attributes

progression-tracking attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.236 ddos dst zone port-range progression-tracking oper

Operational Status for the object progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking/oper
Element Attributes	progression-tracking_attributes
Partition Visibility	None
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking/oper

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking/oper

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking/oper

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/progression-tracking/oper

progression-tracking attributes

progression-tracking attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

2.33.237 ddos dst zone port-range src-based-policy

Configure src-based policy

src-based-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*src-based-policy-name*
Collection Name	*src-based-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy
Element Name	src-based-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}
Element Attributes	src-based-policy_attributes
Partition Visibility	shared
Schema	`src-based-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy

src-based-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy

src-based-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy

src-based-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy

src-based-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

src-based-policy-list

src-based-policy-list is **JSON List** of *src-based-policy attributes*

src-based-policy-list : [

{ *src-based-policy attributes* },

{ *src-based-policy attributes* },

…

]

src-based-policy attributes

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, quic, dns, http, ssl-l4, sip, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *policy-class-list-list_zone-template*

Type: Object

policy-class-list-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns and class-list-glid are mutually exclusive

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: quic and class-list-glid are mutually exclusive

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip and class-list-glid are mutually exclusive

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4 and class-list-glid are mutually exclusive

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.238 ddos dst zone port-range src-based-policy policy-class-list

Configure class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*class-list-name*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Attributes	policy-class-list_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, quic, dns, http, ssl-l4, sip, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns and class-list-glid are mutually exclusive

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: quic and class-list-glid are mutually exclusive

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip and class-list-glid are mutually exclusive

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4 and class-list-glid are mutually exclusive

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *class-list-overflow-policy-list_zone-template*

Type: Object

class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.239 ddos dst zone port-range src-based-policy policy-class-list class-list-overflow-policy

Configure dynamic entry count overflow policy for class-list

class-list-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dummy-name*
Collection Name	*class-list-overflow-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy
Element Name	class-list-overflow-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}
Element Attributes	class-list-overflow-policy_attributes
Partition Visibility	shared
Schema	`class-list-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

class-list-overflow-policy-list

class-list-overflow-policy-list is **JSON List** of *class-list-overflow-policy attributes*

```
class-list-overflow-policy-list : [
        { class-list-overflow-policy attributes },
        { class-list-overflow-policy attributes },
        ...
    ]
```

class-list-overflow-policy attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.240 ddos dst zone port-range src-based-policy policy-class-list oper

Operational Status for the object policy-class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper
Element Attributes	policy-class-list_attributes
Partition Visibility	None
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

2.33.241 ddos dst zone port-range src-based-policy policy-class-list stats

Statistics for the object policy-class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats
Element Attributes	policy-class-list_attributes
Partition Visibility	None
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

entry_count_overflow

Description Entry Count Overflow

Type: number

Format: counter

entry_learned

Description Entry Learned

Type: number

Format: counter

exceed_drop_conn_limit_clist

Description Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_conn_rate_clist

Description Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_frag_rate_clist

Description Frag Rate Exceeded

Type: number

Format: counter

exceed_drop_kbit_rate_clist

Description KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_kbit_rate_clist_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_pkt_rate_clist

Description Packet Rate Exceeded

Type: number

Format: counter

packet_dropped

Description Packets Dropped

Type: number

Format: counter

packet_received

Description Packets Received

Type: number

Format: counter

2.33.242 ddos dst zone port-range topk-destinations

DDos dst zone-service indicators top destinations

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations
Element Attributes	topk-destinations_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations/oper
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations

topk-destinations attributes

topk-destinations attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.243 ddos dst zone port-range topk-destinations oper

Operational Status for the object topk-destinations

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations/oper
Element Attributes	topk-destinations_attributes
Partition Visibility	None
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations/oper

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations/oper

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations/oper

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-destinations/oper

topk-destinations attributes

topk-destinations attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.244 ddos dst zone port-range topk-sources

DDos dst zone-service indicators top sources

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources
Element Attributes	topk-sources_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources/oper
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources

topk-sources attributes

topk-sources attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.245 ddos dst zone port-range topk-sources oper

Operational Status for the object topk-sources

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources/oper
Element Attributes	topk-sources_attributes
Partition Visibility	None
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources/oper

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources/oper

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources/oper

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/topk-sources/oper

topk-sources attributes

topk-sources attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.246 ddos dst zone port-range virtualhosts

Configure virtualhost based mitigation for SSL services

virtualhosts Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	virtualhosts
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts
Element Attributes	virtualhosts_attributes
Partition Visibility	shared
Schema	`virtualhosts schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts

virtualhosts attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts

virtualhosts attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts

virtualhosts attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts

virtualhosts attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts

virtualhosts attributes

virtualhosts attributes

source-tracking-all

Description enables creation of source entries for all virtualhosts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhosts-config

Description 'configuration': configure virtualhost based mitigation for ssl services;

Type: string

Supported Values: configuration

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}*

virtualhost-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *virtualhost-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}*

servername

Type: List

servername-list

Description Class List to match servername (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername-match-any

Description Match when there is no SNI or other servernames are not matched

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-tracking

Description 'follow': enable creation of source entries when source-tracking-all is enabled (default); 'enable': enable creation of source entries on this virtualhost; 'disable': disable creation of source entries on this virtualhost;

Type: string

Supported Values: follow, enable, disable

Default: follow

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

virtualhost-list_servername

Specification	Value
Type	*list*
Block object keys	

host-match-string

Description SNI String

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'contains': match servername extension when contains this string; 'ends-with': match servername extension when ends with this string; 'equals': match servername extension when equals this string; 'starts-with': match servername extension when starts with this string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

virtualhost-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

virtualhost-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *virtualhost-list_level-list_zone-template*

Type: Object

virtualhost-list_level-list_zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.247 ddos dst zone port-range virtualhosts virtualhost

Configure mitigation for virtualhost

virtualhost Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*vhost*
Collection Name	*virtualhost-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost
Element Name	virtualhost
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}
Element Attributes	virtualhost_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/oper
Schema	`virtualhost schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost

virtualhost attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost

virtualhost attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost

virtualhost-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost

virtualhost-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost attributes

virtualhost-list

virtualhost-list is **JSON List** of *virtualhost attributes*

virtualhost-list : [

{ *virtualhost attributes* },

{ *virtualhost attributes* },

...

]

virtualhost attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}*

servername

Type: List

servername-list

Description Class List to match servername (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername-match-any

Description Match when there is no SNI or other servernames are not matched

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-tracking

Description 'follow': enable creation of source entries when source-tracking-all is enabled (default); 'enable': enable creation of source entries on this virtualhost; 'disable': disable creation of source entries on this virtualhost;

Type: string

Supported Values: follow, enable, disable

Default: follow

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername

Specification	Value
Type	*list*
Block object keys	

host-match-string

Description SNI String

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'contains': match servername extension when contains this string; 'ends-with': match servername extension when ends with this string; 'equals': match servername extension when equals this string; 'starts-with': match servername extension when starts with this string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *level-list_zone-template*

Type: Object

level-list_zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.248 ddos dst zone port-range virtualhosts virtualhost level

Virtualhost Policy Level Configuration

level Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*level-num*
Collection Name	*level-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/level
Element Name	level
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}
Element Attributes	level_attributes
Partition Visibility	shared
Schema	`level schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/leve

level attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/leve

level attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/leve
num}

level attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/leve

level-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/leve
num}

level attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/level
num}

level attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/level

level-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/level
num}

level attributes

level-list

level-list is **JSON List** of *level attributes*

level-list : [

{ *level attributes* },

{ *level attributes* },

...

]

level attributes

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.249 ddos dst zone port-range virtualhosts virtualhost oper

Operational Status for the object virtualhost

virtualhost Specification

Parameter	Value
Type	*Collection*
Collection Name	*virtualhost-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}
Element Name	virtualhost
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/oper
Element Attributes	virtualhost_attributes
Partition Visibility	None
Schema	`virtualhost schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/oper

virtualhost attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/oper

virtualhost attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/oper

virtualhost attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/virtualhosts/virtualhost/{vhost}/oper

virtualhost attributes

virtualhost-list

virtualhost-list is **JSON List** of *virtualhost attributes*

virtualhost-list : [

{ *virtualhost attributes* },

{ *virtualhost attributes* },

...

]

virtualhost attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

http-filter-rates

Type: List

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

response-size-rates

Type: List

sflow-source-id

Description

Type: number

oper_ddos_entry_list_response-size-rates

Specification	Value
Type	*list*
Block object keys	

current-response-size-rate

Description

Type: string

is-response-size-rate-limit-exceed

Description

Type: number

response-size-rate-limit

Description

Type: string

response-size-rate-name

Description

Type: string

oper_ddos_entry_list_http-filter-rates

Specification	Value
Type	*list*
Block object keys	

current-http-filter-rate

Description

Type: string

http-filter-rate-limit

Description

Type: string

http-filter-rate-name

Description

Type: string

is-http-filter-rate-limit-exceed

Description

Type: number

2.33.250 ddos dst zone port zone-service

DDOS Port & Protocol configuration

zone-service Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num, protocol*
Collection Name	*zone-service-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service
Element Name	zone-service
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}
Element Attributes	zone-service_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/oper
Schema	`zone-service schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service

zone-service attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service

zone-service attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}

zone-service attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service

zone-service-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}

zone-service attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}

zone-service attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service

zone-service-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}

zone-service attributes

zone-service-list

zone-service-list is **JSON List** of *zone-service attributes*

```
zone-service-list : [
        { zone-service attributes },
        { zone-service attributes },
        ...
    ]
```

zone-service attributes

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capture-config

Description: capture-config is a **JSON Block**. Please see below for *capture-config*

Type: Object

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for zone-port or class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind*

port-num

Description Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp, quic

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-ip-filtering-policy, sflow-tcp-basic, sflow-tcp-stateful, and sflow-http are mutually exclusive

sflow-http

Description Enable sFlow HTTP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-http and sflow-common are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

virtualhosts

Description: virtualhosts is a **JSON Block**. Please see below for *virtualhosts*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts*

pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

app-payload-offset

Description Set offset of the payload

Type: number

Range: 0-1500

Default: 0

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_zone-template*

Type: Object

dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-signature-extraction

Description Start signature extraction from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

level-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

virtualhosts

Specification	Value
Type	*object*

source-tracking-all

Description enable creation of source entries for all virtualhosts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhosts-config

Description 'configuration': configure virtualhost based mitigation for ssl services;

Type: string

Supported Values: configuration

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}*

virtualhosts_virtualhost-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *virtualhosts_virtualhost-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}*

servername

Type: List

servername-list

Description Class List to match servername (AC type Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername-match-any

Description Match any SNI extension

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

servername-no-sni

Description Match when there is no SNI extension found

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-tracking

Description 'follow': enable creation of source entries when source-tracking-all is enabled (default); 'enable': enable creation of source entries on this virtualhost; 'disable': disable creation of source entries on this virtualhost;

Type: string

Supported Values: follow, enable, disable

Default: follow

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

virtualhosts_virtualhost-list_servername

Specification	Value
Type	*list*
Block object keys	

host-match-string

Description SNI String

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'contains': match servername extension when contains this string; 'ends-with': match servername extension when ends with this string; 'equals': match servername extension when equals this string; 'starts-with': match servername extension when starts with this string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

virtualhosts_virtualhost-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

virtualhosts_virtualhost-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *virtualhosts_virtualhost-list_level-list_zone-template*

Type: Object

virtualhosts_virtualhost-list_level-list_zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *manual-mode-list_zone-template*

Type: Object

manual-mode-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, quic, dns, http, ssl-l4, sip, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns and class-list-glid are mutually exclusive

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: quic and class-list-glid are mutually exclusive

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip and class-list-glid are mutually exclusive

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4 and class-list-glid are mutually exclusive

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current;

'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold,

ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.251 ddos dst zone port zone-service dynamic-entry-overflow-policy

Configure overflow policy

dynamic-entry-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dummy-name*
Collection Name	*dynamic-entry-overflow-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy
Element Name	dynamic-entry-overflow-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}
Element Attributes	dynamic-entry-overflow-policy_attributes
Partition Visibility	shared
Schema	`dynamic-entry-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

dynamic-entry-overflow-policy-list

dynamic-entry-overflow-policy-list is **JSON List** of *dynamic-entry-overflow-policy attributes*

dynamic-entry-overflow-policy-list : [

{ *dynamic-entry-overflow-policy attributes* },

{ *dynamic-entry-overflow-policy attributes* },

...

]

dynamic-entry-overflow-policy attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.252 ddos dst zone port zone-service ip-filtering-policy-statistics

IP Filter

ip-filtering-policy-statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-filtering-policy-statistics
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics
Element Attributes	ip-filtering-policy-statistics_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics/oper
Schema	`ip-filtering-policy-statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

ip-filtering-policy-statistics attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.253 ddos dst zone port zone-service ip-filtering-policy-statistics oper

Operational Status for the object ip-filtering-policy-statistics

ip-filtering-policy-statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-filtering-policy-statistics
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics/oper
Element Attributes	ip-filtering-policy-statistics_attributes
Partition Visibility	None
Schema	`ip-filtering-policy-statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

ip-filtering-policy-statistics attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

rule-list

Type: List

oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

2.33.254 ddos dst zone port zone-service level

Policy Level Configuration

level Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*level-num*
Collection Name	*level-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level
Element Name	level
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}
Element Attributes	level_attributes
Partition Visibility	shared
Schema	`level schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level

level attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level

level attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}

level attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level

level-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}

level attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}

level attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level

level-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}

level attributes

level-list

level-list is **JSON List** of *level attributes*

level-list : [

{ *level attributes* },

{ *level attributes* },

...

]

level attributes

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

start-signature-extraction

Description Start signature extraction from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

2.33.255 ddos dst zone port zone-service level indicator

DDoS Indicator Configuration

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator/{type}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

indicator-list : [

{ *indicator attributes* },

{ *indicator attributes* },

…

]

indicator attributes

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

2.33.256 ddos dst zone port zone-service manual-mode

Enter manual-mode configuration

manual-mode Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*config*
Collection Name	*manual-mode-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode
Element Name	manual-mode
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode/{config}
Element Attributes	manual-mode_attributes
Partition Visibility	shared
Schema	`manual-mode schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode

manual-mode attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode

manual-mode attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode/{config}

manual-mode attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode

manual-mode-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode/{config}

manual-mode attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode/{config}

manual-mode attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode

manual-mode-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/manual-mode/{config}

manual-mode attributes

manual-mode-list

manual-mode-list is **JSON List** of *manual-mode attributes*

manual-mode-list : [

{ *manual-mode attributes* },

{ *manual-mode attributes* },

...

]

manual-mode attributes

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.257 ddos dst zone port zone-service oper

Operational Status for the object zone-service

zone-service Specification

Parameter	Value
Type	*Collection*
Collection Name	*zone-service-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}
Element Name	zone-service
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/oper
Element Attributes	zone-service_attributes
Partition Visibility	None
Schema	`zone-service schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}

zone-service attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}

zone-service attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/oper

zone-service attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}

zone-service-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/oper

zone-service attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/oper

zone-service attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}

zone-service-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/oper

zone-service attributes

zone-service-list

zone-service-list is **JSON List** of *zone-service attributes*

zone-service-list : [

{ *zone-service attributes* },

{ *zone-service attributes* },

...

]

zone-service attributes

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics*

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind*

port-num

Description Port Number

Type: number

Range: 1-65535

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking*

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-udp': SIP-UDP Port; 'sip-tcp': SIP-TCP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-udp, sip-tcp, quic

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/topk-destinations/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/topk-destinations*

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources*

virtualhosts

Description: virtualhosts is a **JSON Block**. Please see below for *virtualhosts*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/topk-destinations/virtualhosts*

oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted-stats

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

http-filter-rates

Type: List

hw-blocked-rules

Type: List

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

response-size-rates

Type: List

sflow-source-id

Description

Type: number

oper_ddos_entry_list_hw-blocked-rules

Specification	Value
Type	*list*
Block object keys	

hw-blocking-state

Description

Type: string

rule-dst-ip

Description

Type: string

oper_ddos_entry_list_response-size-rates

Specification	Value
Type	*list*
Block object keys	

current-response-size-rate

Description

Type: string

is-response-size-rate-limit-exceed

Description

Type: number

response-size-rate-limit

Description

Type: string

response-size-rate-name

Description

Type: string

oper_ddos_entry_list_http-filter-rates

Specification	Value
Type	*list*
Block object keys	

current-http-filter-rate

Description

Type: string

http-filter-rate-limit

Description

Type: string

http-filter-rate-name

Description

Type: string

is-http-filter-rate-limit-exceed

Description

Type: number

src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

oper

Type: Object

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/topk-destinations/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_oper*

Type: Object

src-based-policy-list_policy-class-list-list_oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

pattern-recognition

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *pattern-recognition_oper*

Type: Object

pattern-recognition_oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

pattern-recognition_oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

virtualhosts

Specification	Value
Type	*object*

oper

Type: Object

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/ip-filtering-policy-statistics/port-ind/topk-sources/progression-tracking/topk-destinations/virtualhosts/virtualhost/{vhost}*

virtualhosts_virtualhost-list

Specification	Value
Type	*list*
Block object keys	

oper

Description: oper is a **JSON Block**. Please see below for *virtualhosts_virtualhost-list_oper*

Type: Object

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

virtualhosts_virtualhost-list_oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

virtualhosts_virtualhost-list_oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

http-filter-rates

Type: List

hw-blocked-rules

Type: List

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

response-size-rates

Type: List

sflow-source-id

Description

Type: number

virtualhosts_virtualhost-list_oper_ddos_entry_list_hw-blocked-rules

Specification	Value
Type	*list*
Block object keys	

hw-blocking-state

Description

Type: string

rule-dst-ip

Description

Type: string

virtualhosts_virtualhost-list_oper_ddos_entry_list_response-size-rates

Specification	Value
Type	*list*
Block object keys	

current-response-size-rate

Description

Type: string

is-response-size-rate-limit-exceed

Description

Type: number

response-size-rate-limit

Description

Type: string

response-size-rate-name

Description

Type: string

virtualhosts_virtualhost-list_oper_ddos_entry_list_http-filter-rates

Specification	Value
Type	*list*
Block object keys	

current-http-filter-rate

Description

Type: string

http-filter-rate-limit

Description

Type: string

http-filter-rate-name

Description

Type: string

is-http-filter-rate-limit-exceed

Description

Type: number

pattern-recognition-pu-details

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *pattern-recognition-pu-details_oper*

Type: Object

pattern-recognition-pu-details_oper

Specification	Value
Type	*object*

all-filters

Type: List

pattern-recognition-pu-details_oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

pattern-recognition-pu-details_oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-ind_oper*

Type: Object

port-ind_oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

port-ind_oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

port-ind_oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

ip-filtering-policy-statistics

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-filtering-policy-statistics_oper*

Type: Object

ip-filtering-policy-statistics_oper

Specification	Value
Type	*object*

rule-list

Type: List

ip-filtering-policy-statistics_oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

topk-destinations

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-destinations_oper*

Type: Object

topk-destinations_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-destinations_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-destinations_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-destinations_oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

topk-destinations_oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-sources_oper*

Type: Object

topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *progression-tracking_oper*

Type: Object

progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

2.33.258 ddos dst zone port zone-service-other

DDOS Port & Protocol configuration

zone-service-other Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-other, protocol*
Collection Name	*zone-service-other-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other
Element Name	zone-service-other
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}
Element Attributes	zone-service-other_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/oper
Schema	`zone-service-other schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other

zone-service-other attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other

zone-service-other attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}

zone-service-other attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other

zone-service-other-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}

zone-service-other attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}

zone-service-other attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other

zone-service-other-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}

zone-service-other attributes

zone-service-other-list

zone-service-other-list is **JSON List** of *zone-service-other attributes*

zone-service-other-list : [

{ *zone-service-other attributes* },

{ *zone-service-other attributes* },

...

]

zone-service-other attributes

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}*

enable-class-list-overflow

Description Apply class-list overflow policy upon exceeding dynamic entry count specified for this zone port or each class-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k

Description Enable ddos top-k source IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-top-k-destination

Description Enable ddos top-k destination IP detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

faster-de-escalation

Description De-escalate faster in standalone mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *glid-cfg*

Type: Object

ip-filtering-policy

Description Configure IP Filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/ip-filtering-policy*

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics*

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}*

manual-mode-enable

Description Toggle manual mode to use fix templates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

manual-mode-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode/{config}*

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry

Type: number

Range: 0-2147483647

outbound-only

Description Only allow outbound traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking*

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

same-source-dest-port-drop

Description Drop packet with same Source Port and Dest Port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

sflow-common

Description Enable all sFlow polling options under this zone port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-common,sflow-packets, sflow-tcp-basic, sflow-tcp-stateful, and sflow-ip-filtering-policy are mutually exclusive

sflow-ip-filtering-policy

Description Enable sFlow IP filtering policy per port per rule counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-ip-filtering-policy and sflow-common are mutually exclusive

sflow-packets

Description Enable sFlow packet-level counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-packets and sflow-common are mutually exclusive

sflow-tcp

Description: sflow-tcp is a **JSON Block**. Please see below for *sflow-tcp*

Type: Object

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}*

stateful

Description Enable stateful tracking of sessions (Default is stateless)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations*

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-dst-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'avg': window average; 'max-peak': max peak;

Type: string

Supported Values: avg, max-peak

Default: avg

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources*

unlimited-dynamic-entry-count

Description No limit for maximum dynamic src entry count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pattern-recognition

Specification	Value
Type	*object*

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

progression-tracking

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_zone-template*

Type: Object

dynamic-entry-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

glid-cfg

Specification	Value
Type	*object*

action-list

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: action-list and glid-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

glid

Description Global limit ID for the whole zone

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default if default-action-list is not configured); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

Mutual Exclusion: glid-action and action-list are mutually exclusive

per-addr-glid

Description Global limit ID per address

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

level-list

Specification	Value
Type	*list*
Block object keys	

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *level-list_zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

level-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

manual-mode-list

Specification	Value
Type	*list*
Block object keys	

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *manual-mode-list_zone-template*

Type: Object

manual-mode-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_zone-template*

Type: Object

src-based-policy-list_policy-class-list-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

src-based-policy-list_policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

src-based-policy-list_policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

pattern-recognition-pu-details

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-ind

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-ind_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current;

'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max': Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold,

ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current, ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

sflow-tcp

Specification	Value
Type	*object*

sflow-tcp-basic

Description Enable sFlow basic TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-basic and sflow-common are mutually exclusive

sflow-tcp-stateful

Description Enable sFlow stateful TCP counter polling

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: sflow-tcp-stateful and sflow-common are mutually exclusive

topk-sources

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-filtering-policy-statistics

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.259 ddos dst zone port zone-service-other dynamic-entry-overflow-policy

Configure overflow policy

dynamic-entry-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dummy-name*
Collection Name	*dynamic-entry-overflow-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy
Element Name	dynamic-entry-overflow-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}
Element Attributes	dynamic-entry-overflow-policy_attributes
Partition Visibility	shared
Schema	`dynamic-entry-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/dynamic-entry-overflow-policy/{dummy-name}

dynamic-entry-overflow-policy attributes

dynamic-entry-overflow-policy-list

dynamic-entry-overflow-policy-list is **JSON List** of *dynamic-entry-overflow-policy attributes*

dynamic-entry-overflow-policy-list : [

{ *dynamic-entry-overflow-policy attributes* },

{ *dynamic-entry-overflow-policy attributes* },

...

]

dynamic-entry-overflow-policy attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.260 ddos dst zone port zone-service-other ip-filtering-policy-statistics

IP Filter

ip-filtering-policy-statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-filtering-policy-statistics
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics
Element Attributes	ip-filtering-policy-statistics_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/oper
Schema	`ip-filtering-policy-statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics

ip-filtering-policy-statistics attributes

ip-filtering-policy-statistics attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.261 ddos dst zone port zone-service-other ip-filtering-policy-statistics oper

Operational Status for the object ip-filtering-policy-statistics

ip-filtering-policy-statistics Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-filtering-policy-statistics
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/oper
Element Attributes	ip-filtering-policy-statistics_attributes
Partition Visibility	None
Schema	`ip-filtering-policy-statistics schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/oper

ip-filtering-policy-statistics attributes

ip-filtering-policy-statistics attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

rule-list

Type: List

oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

2.33.262 ddos dst zone port zone-service-other level

Policy Level Configuration

level Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*level-num*
Collection Name	*level-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level
Element Name	level
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}
Element Attributes	level_attributes
Partition Visibility	shared
Schema	`level schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level

level attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level

level attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}

level attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level

level-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}

level attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}

level attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level

level-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}

level attributes

level-list

level-list is **JSON List** of *level attributes*

```
level-list : [
        { level attributes },
        { level attributes },
        ...
    ]
```

level attributes

apply-extracted-filters

Description Apply extracted filters from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clear-sources-upon-deescalation

Description Clear sources upon de-escalation from level 1 to 0 or manual to 0

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1; '2': Policy level 2; '3': Policy level 3; '4': Policy level 4;

Type: string

Supported Values: 0, 1, 2, 3, 4

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

src-escalation-score

Description Source activation score of this level

Type: number

Range: 1-1000000

src-violation-actions

Description Violation actions apply due to source escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

start-pattern-recognition

Description Start pattern recognition from this level

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-escalation-score

Description Zone activation score of this level

Type: number

Range: 1-1000000

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-violation-actions

Description Violation actions apply due to zone escalate from this level

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

2.33.263 ddos dst zone port zone-service-other level indicator

DDoS Indicator Configuration

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

indicator-list : [

{ *indicator attributes* },

{ *indicator attributes* },

...

]

indicator attributes

data-packet-size

Description Expected minimal data size

Type: number

Range: 1-1500

score

Description Score corresponding to the indicator

Type: number

Range: 1-1000000

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

src-violation-actions

Description Violation actions to use when this src indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

tcp-window-size

Description Expected minimal window size

Type: number

Range: 1-500

type

Description 'pkt-rate': rate of incoming packets; 'pkt-drop-rate': rate of packets got dropped; 'bit-rate': rate of incoming bits; 'pkt-drop-ratio': ratio of incoming packet rate divided by the rate of dropping packets; 'bytes-to-bytes-from-ratio': ratio of incoming packet rate divided by the rate of outgoing packets; 'concurrent-conns': number of concurrent connections; 'conn-miss-rate': rate of incoming packets for which no previously established connection exists; 'syn-rate': rate on incoming SYN packets; 'fin-rate': rate on incoming FIN packets; 'rst-rate': rate of incoming RST packets; 'small-window-ack-rate': rate of small window advertisement; 'empty-ack-rate': rate of incoming packets which have no payload; 'small-payload-rate': rate of short payload packet; 'syn-fin-ratio': ratio of incoming SYN packet rate divided by the rate of incoming FIN packets; 'cpu-utilization': average data CPU utilization; 'interface-utilization': outside interface utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-violation-actions

Description Violation actions to use when this zone indicator threshold reaches

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/violation-actions*

2.33.264 ddos dst zone port zone-service-other manual-mode

Enter manual-mode configuration

manual-mode Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*config*
Collection Name	*manual-mode-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode
Element Name	manual-mode
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode/{config}
Element Attributes	manual-mode_attributes
Partition Visibility	shared
Schema	`manual-mode schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode

manual-mode attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode

manual-mode attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode/{config}

manual-mode attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode

manual-mode-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode/{config}

manual-mode attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode/{config}

manual-mode attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode

manual-mode-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/manual-mode/{config}

manual-mode attributes

manual-mode-list

manual-mode-list is **JSON List** of *manual-mode attributes*

```
manual-mode-list : [
        { manual-mode attributes },
        { manual-mode attributes },
        ...
    ]
```

manual-mode attributes

close-sessions-for-all-sources

Description Close session for all sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sessions-for-unauth-sources

Description Close session for unauthenticated sources

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

config

Description 'configuration': Manual-mode configuration;

Type: string

Supported Values: configuration

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.265 ddos dst zone port zone-service-other oper

Operational Status for the object zone-service-other

zone-service-other Specification

Parameter	Value
Type	*Collection*
Collection Name	*zone-service-other-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}
Element Name	zone-service-other
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/oper
Element Attributes	zone-service-other_attributes
Partition Visibility	None
Schema	`zone-service-other schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}

zone-service-other attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}

zone-service-other attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/oper

zone-service-other attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}

zone-service-other-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/oper

zone-service-other attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/oper

zone-service-other attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}

zone-service-other-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/oper

zone-service-other attributes

zone-service-other-list

zone-service-other-list is **JSON List** of *zone-service-other attributes*

zone-service-other-list : [

{ *zone-service-other attributes* },

{ *zone-service-other attributes* },

...

]

zone-service-other attributes

ip-filtering-policy-statistics

Description: ip-filtering-policy-statistics is a **JSON Block**. Please see below for *ip-filtering-policy-statistics*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics*

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

pattern-recognition

Description: pattern-recognition is a **JSON Block**. Please see below for *pattern-recognition*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition*

pattern-recognition-pu-details

Description: pattern-recognition-pu-details is a **JSON Block**. Please see below for *pattern-recognition-pu-details*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/progression-tracking*

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

src-based-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/progression-tracking/topk-destinations/src-based-policy/{src-based-policy-name}*

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/progression-tracking/topk-destinations*

topk-sources

Description: topk-sources is a **JSON Block**. Please see below for *topk-sources*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources*

oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

src-based-policy-list

Specification	Value
Type	*list*
Block object keys	

oper

Type: Object

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/ip-filtering-policy-statistics/pattern-recognition-pu-details/port-ind/topk-sources/progression-tracking/topk-destinations/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src-based-policy-list_policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *src-based-policy-list_policy-class-list-list_oper*

Type: Object

src-based-policy-list_policy-class-list-list_oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

pattern-recognition

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *pattern-recognition_oper*

Type: Object

pattern-recognition_oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

pattern-recognition_oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

pattern-recognition-pu-details

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *pattern-recognition-pu-details_oper*

Type: Object

pattern-recognition-pu-details_oper

Specification	Value
Type	*object*

all-filters

Type: List

pattern-recognition-pu-details_oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

pattern-recognition-pu-details_oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-ind_oper*

Type: Object

port-ind_oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

port-ind_oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

port-ind_oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

ip-filtering-policy-statistics

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ip-filtering-policy-statistics_oper*

Type: Object

ip-filtering-policy-statistics_oper

Specification	Value
Type	*object*

rule-list

Type: List

ip-filtering-policy-statistics_oper_rule-list

Specification	Value
Type	*list*
Block object keys	

blacklisted_src_count

Description

Type: number

hits

Description

Type: number

seq

Description

Type: number

topk-destinations

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-destinations_oper*

Type: Object

topk-destinations_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-destinations_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-destinations_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-destinations_oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

topk-destinations_oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

topk-sources

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-sources_oper*

Type: Object

topk-sources_oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

topk-sources_oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

topk-sources_oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

topk-sources_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

topk-sources_oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

progression-tracking

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *progression-tracking_oper*

Type: Object

progression-tracking_oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

progression-tracking_oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

2.33.266 ddos dst zone port zone-service-other pattern-recognition

Enable Pattern Recognition

pattern-recognition Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition
Element Attributes	pattern-recognition_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition/oper
Schema	`pattern-recognition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition

pattern-recognition attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition

pattern-recognition attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition

pattern-recognition attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition

pattern-recognition attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition

pattern-recognition attributes

pattern-recognition attributes

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.267 ddos dst zone port zone-service-other pattern-recognition oper

Operational Status for the object pattern-recognition

pattern-recognition Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition/oper
Element Attributes	pattern-recognition_attributes
Partition Visibility	None
Schema	`pattern-recognition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

pattern-recognition attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

2.33.268 ddos dst zone port zone-service-other pattern-recognition-pu-details

pattern-recognition-pu-details Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition-pu-details
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details
Element Attributes	pattern-recognition-pu-details_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details/oper
Schema	`pattern-recognition-pu-details schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

pattern-recognition-pu-details attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.269 ddos dst zone port zone-service-other pattern-recognition-pu-details oper

Operational Status for the object pattern-recognition-pu-details

pattern-recognition-pu-details Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition-pu-details
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details/oper
Element Attributes	pattern-recognition-pu-details_attributes
Partition Visibility	None
Schema	`pattern-recognition-pu-details schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

pattern-recognition-pu-details attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-filters

Type: List

oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

2.33.270 ddos dst zone port zone-service-other port-ind

zone port indicators

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind
Element Attributes	port-ind_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind/oper
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind

port-ind attributes

port-ind attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max':

Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current,

ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

2.33.271 ddos dst zone port zone-service-other port-ind oper

Operational Status for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind/oper
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind/oper

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind/oper

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind/oper

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind/oper

port-ind attributes

port-ind attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

2.33.272 ddos dst zone port zone-service-other port-ind stats

Statistics for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind/stats
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind/stats

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind/stats

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind/stats

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/port-ind/stats

port-ind attributes

port-ind attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ddet_ind_bit_rate_adaptive_threshold

Description Bit Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_bit_rate_current

Description Bit Rate Current

Type: number

Format: counter

ddet_ind_bit_rate_max

Description Bit Rate Max

Type: number

Format: counter

ddet_ind_bit_rate_min

Description Bit Rate Min

Type: number

Format: counter

ddet_ind_concurrent_conns_adaptive_threshold

Description TCP/UDP Concurrent Sessions Adaptive Threshold

Type: number

Format: counter

ddet_ind_concurrent_conns_current

Description TCP/UDP Concurrent Sessions Current

Type: number

Format: counter

ddet_ind_concurrent_conns_max

Description TCP/UDP Concurrent Sessions Max

Type: number

Format: counter

ddet_ind_concurrent_conns_min

Description TCP/UDP Concurrent Sessions Min

Type: number

Format: counter

ddet_ind_conn_miss_rate_adaptive_threshold

Description TCP Session Miss Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_conn_miss_rate_current

Description TCP Session Miss Rate Current

Type: number

Format: counter

ddet_ind_conn_miss_rate_max

Description TCP Session Miss Rate Max

Type: number

Format: counter

ddet_ind_conn_miss_rate_min

Description TCP Session Miss Rate Min

Type: number

Format: counter

ddet_ind_data_cpu_util_adaptive_threshold

Description Data CPU Utilization Adaptive Threshold

Type: number

Format: counter

ddet_ind_data_cpu_util_current

Description Data CPU Utilization Current

Type: number

Format: counter

ddet_ind_data_cpu_util_max

Description Data CPU Utilization Max

Type: number

Format: counter

ddet_ind_data_cpu_util_min

Description Data CPU Utilization Min

Type: number

Format: counter

ddet_ind_empty_ack_rate_adaptive_threshold

Description TCP Empty ACK Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_empty_ack_rate_current

Description TCP Empty ACK Rate Current

Type: number

Format: counter

ddet_ind_empty_ack_rate_max

Description TCP Empty ACK Rate Max

Type: number

Format: counter

ddet_ind_empty_ack_rate_min

Description TCP Empty ACK Rate Min

Type: number

Format: counter

ddet_ind_fin_rate_adaptive_threshold

Description TCP FIN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_fin_rate_current

Description TCP FIN Rate Current

Type: number

Format: counter

ddet_ind_fin_rate_max

Description TCP FIN Rate Max

Type: number

Format: counter

ddet_ind_fin_rate_min

Description TCP FIN Rate Min

Type: number

Format: counter

ddet_ind_frag_rate_adaptive_threshold

Description Frag Pkt Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_frag_rate_current

Description Frag Pkt Rate Current

Type: number

Format: counter

ddet_ind_frag_rate_max

Description Frag Pkt Rate Max

Type: number

Format: counter

ddet_ind_frag_rate_min

Description Frag Pkt Rate Min

Type: number

Format: counter

ddet_ind_inb_per_outb_adaptive_threshold

Description Bytes-to / Bytes-from Adaptive Threshold

Type: number

Format: counter

ddet_ind_inb_per_outb_current

Description Bytes-to / Bytes-from Current

Type: number

Format: counter

ddet_ind_inb_per_outb_max

Description Bytes-to / Bytes-from Max

Type: number

Format: counter

ddet_ind_inb_per_outb_min

Description Bytes-to / Bytes-from Min

Type: number

Format: counter

ddet_ind_outside_intf_util_adaptive_threshold

Description Outside Interface Utilization Adaptive Threshold

Type: number

Format: counter

ddet_ind_outside_intf_util_current

Description Outside Interface Utilization Current

Type: number

Format: counter

ddet_ind_outside_intf_util_max

Description Outside Interface Utilization Max

Type: number

Format: counter

ddet_ind_outside_intf_util_min

Description Outside Interface Utilization Min

Type: number

Format: counter

ddet_ind_pkt_drop_rate_adaptive_threshold

Description Pkt Drop Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_drop_rate_current

Description Pkt Drop Rate Current

Type: number

Format: counter

ddet_ind_pkt_drop_rate_max

Description Pkt Drop Rate Max

Type: number

Format: counter

ddet_ind_pkt_drop_rate_min

Description Pkt Drop Rate Min

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_adaptive_threshold

Description Pkt Drop / Pkt Rcvd Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_current

Description Pkt Drop / Pkt Rcvd Current

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_max

Description Pkt Drop / Pkt Rcvd Max

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_min

Description Pkt Drop / Pkt Rcvd Min

Type: number

Format: counter

ddet_ind_pkt_rate_adaptive_threshold

Description Pkt Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_rate_current

Description Pkt Rate Current

Type: number

Format: counter

ddet_ind_pkt_rate_max

Description Pkt Rate Max

Type: number

Format: counter

ddet_ind_pkt_rate_min

Description Pkt Rate Min

Type: number

Format: counter

ddet_ind_rst_rate_adaptive_threshold

Description TCP RST Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_rst_rate_current

Description TCP RST Rate Current

Type: number

Format: counter

ddet_ind_rst_rate_max

Description TCP RST Rate Max

Type: number

Format: counter

ddet_ind_rst_rate_min

Description TCP RST Rate Min

Type: number

Format: counter

ddet_ind_small_payload_rate_adaptive_threshold

Description TCP Small Payload Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_small_payload_rate_current

Description TCP Small Payload Rate Current

Type: number

Format: counter

ddet_ind_small_payload_rate_max

Description TCP Small Payload Rate Max

Type: number

Format: counter

ddet_ind_small_payload_rate_min

Description TCP Small Payload Rate Min

Type: number

Format: counter

ddet_ind_small_window_ack_rate_adaptive_threshold

Description TCP Small Window ACK Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_small_window_ack_rate_current

Description TCP Small Window ACK Rate Current

Type: number

Format: counter

ddet_ind_small_window_ack_rate_max

Description TCP Small Window ACK Rate Max

Type: number

Format: counter

ddet_ind_small_window_ack_rate_min

Description TCP Small Window ACK Rate Min

Type: number

Format: counter

ddet_ind_syn_ack_rate_adaptive_threshold

Description TCP SYN ACK Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_ack_rate_current

Description TCP SYN ACK Rate Current

Type: number

Format: counter

ddet_ind_syn_ack_rate_max

Description TCP SYN ACK Rate Max

Type: number

Format: counter

ddet_ind_syn_ack_rate_min

Description TCP SYN ACK Rate Min

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_adaptive_threshold

Description TCP SYN Rate / FIN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_current

Description TCP SYN Rate / FIN Rate Current

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_max

Description TCP SYN Rate / FIN Rate Max

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_min

Description TCP SYN Rate / FIN Rate Min

Type: number

Format: counter

ddet_ind_syn_rate_adaptive_threshold

Description TCP SYN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_rate_current

Description TCP SYN Rate Current

Type: number

Format: counter

ddet_ind_syn_rate_max

Description TCP SYN Rate Max

Type: number

Format: counter

ddet_ind_syn_rate_min

Description TCP SYN Rate Min

Type: number

Format: counter

ddet_ind_total_szp_adaptive_threshold

Description Total Learnt Sources Adaptive Threshold

Type: number

Format: counter

ddet_ind_total_szp_current

Description Total Learnt Sources Current

Type: number

Format: counter

ddet_ind_total_szp_max

Description Total Learnt Sources Max

Type: number

Format: counter

ddet_ind_total_szp_min

Description Total Learnt Sources Min

Type: number

Format: counter

ip-proto-type

Description IP Protocol Type

Type: number

Format: counter

2.33.273 ddos dst zone port zone-service-other progression-tracking

DDos dst zone-service progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking
Element Attributes	progression-tracking_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking/oper
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking

progression-tracking attributes

progression-tracking attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.274 ddos dst zone port zone-service-other progression-tracking oper

Operational Status for the object progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking/oper
Element Attributes	progression-tracking_attributes
Partition Visibility	None
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking/oper

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking/oper

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking/oper

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/progression-tracking/oper

progression-tracking attributes

progression-tracking attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

2.33.275 ddos dst zone port zone-service-other src-based-policy

Configure src-based policy

src-based-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*src-based-policy-name*
Collection Name	*src-based-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy
Element Name	src-based-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}
Element Attributes	src-based-policy_attributes
Partition Visibility	shared
Schema	`src-based-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy

src-based-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy

src-based-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy

src-based-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy

src-based-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

src-based-policy-list

src-based-policy-list is **JSON List** of *src-based-policy attributes*

src-based-policy-list : [

{ *src-based-policy attributes* },

{ *src-based-policy attributes* },

…

]

src-based-policy attributes

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *policy-class-list-list_zone-template*

Type: Object

policy-class-list-list_zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.276 ddos dst zone port zone-service-other src-based-policy policy-class-list

Configure class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*class-list-name*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Attributes	policy-class-list_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *class-list-overflow-policy-list_zone-template*

Type: Object

class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.277 ddos dst zone port zone-service-other src-based-policy policy-class-list class-list-overflow-policy

Configure dynamic entry count overflow policy for class-list

class-list-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dummy-name*
Collection Name	*class-list-overflow-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy
Element Name	class-list-overflow-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}
Element Attributes	class-list-overflow-policy_attributes
Partition Visibility	shared
Schema	`class-list-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

class-list-overflow-policy-list

class-list-overflow-policy-list is **JSON List** of *class-list-overflow-policy attributes*

class-list-overflow-policy-list : [

{ *class-list-overflow-policy attributes* },

{ *class-list-overflow-policy attributes* },

...

]

class-list-overflow-policy attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.278 ddos dst zone port zone-service-other src-based-policy policy-class-list oper

Operational Status for the object policy-class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper
Element Attributes	policy-class-list_attributes
Partition Visibility	None
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

2.33.279 ddos dst zone port zone-service-other src-based-policy policy-class-list stats

Statistics for the object policy-class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats
Element Attributes	policy-class-list_attributes
Partition Visibility	None
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

entry_count_overflow

Description Entry Count Overflow

Type: number

Format: counter

entry_learned

Description Entry Learned

Type: number

Format: counter

exceed_drop_conn_limit_clist

Description Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_conn_rate_clist

Description Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_frag_rate_clist

Description Frag Rate Exceeded

Type: number

Format: counter

exceed_drop_kbit_rate_clist

Description KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_kbit_rate_clist_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_pkt_rate_clist

Description Packet Rate Exceeded

Type: number

Format: counter

packet_dropped

Description Packets Dropped

Type: number

Format: counter

packet_received

Description Packets Received

Type: number

Format: counter

2.33.280 ddos dst zone port zone-service-other topk-destinations

DDos dst zone-service indicators top destinations

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations
Element Attributes	topk-destinations_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations/oper
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations

topk-destinations attributes

topk-destinations attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.281 ddos dst zone port zone-service-other topk-destinations oper

Operational Status for the object topk-destinations

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations/oper
Element Attributes	topk-destinations_attributes
Partition Visibility	None
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations/oper

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations/oper

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations/oper

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-destinations/oper

topk-destinations attributes

topk-destinations attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.282 ddos dst zone port zone-service-other topk-sources

DDos dst zone-service indicators top sources

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources
Element Attributes	topk-sources_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources/oper
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources

topk-sources attributes

topk-sources attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.283 ddos dst zone port zone-service-other topk-sources oper

Operational Status for the object topk-sources

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources/oper
Element Attributes	topk-sources_attributes
Partition Visibility	None
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources/oper

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources/oper

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources/oper

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service-other/{port-other}+{protocol}/topk-sources/oper

topk-sources attributes

topk-sources attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.284 ddos dst zone port zone-service pattern-recognition

Enable Pattern Recognition

pattern-recognition Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition
Element Attributes	pattern-recognition_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition/oper
Schema	`pattern-recognition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition

pattern-recognition attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition

pattern-recognition attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition

pattern-recognition attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition

pattern-recognition attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition

pattern-recognition attributes

pattern-recognition attributes

algorithm

Description 'heuristic': heuristic algorithm;

Type: string

Supported Values: heuristic

app-payload-offset

Description Set offset of the payload

Type: number

Range: 0-1500

Default: 0

capture-traffic

Description 'all': Capture all packets; 'dropped': Capture dropped packets (default);

Type: string

Supported Values: all, dropped

filter-inactive-threshold

Description Extracted filter inactive threshold

Type: number

Range: 5-255

filter-threshold

Description Extracted filter threshold

Type: number

Range: 0-100

mode

Description 'capture-never-expire': War-time capture without rate exceeding and never expires; 'manual': Manual mode;

Type: string

Supported Values: capture-never-expire, manual

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

triggered-by

Description 'zone-escalation': Zone escalation trigger pattern recognition; 'packet-rate-exceeds': Packet rate limit exceeds trigger pattern recognition (default);

Type: string

Supported Values: zone-escalation, packet-rate-exceeds

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.285 ddos dst zone port zone-service pattern-recognition oper

Operational Status for the object pattern-recognition

pattern-recognition Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition/oper
Element Attributes	pattern-recognition_attributes
Partition Visibility	None
Schema	`pattern-recognition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition/oper

pattern-recognition attributes

pattern-recognition attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

oper_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

processing-unit

Description

Type: string

sample-ratio

Description

Type: number

2.33.286 ddos dst zone port zone-service pattern-recognition-pu-details

pattern-recognition-pu-details Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition-pu-details
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details
Element Attributes	pattern-recognition-pu-details_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/oper
Schema	`pattern-recognition-pu-details schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details

pattern-recognition-pu-details attributes

pattern-recognition-pu-details attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.287 ddos dst zone port zone-service pattern-recognition-pu-details oper

Operational Status for the object pattern-recognition-pu-details

pattern-recognition-pu-details Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition-pu-details
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/oper
Element Attributes	pattern-recognition-pu-details_attributes
Partition Visibility	None
Schema	`pattern-recognition-pu-details schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/pattern-recognition-pu-details/oper

pattern-recognition-pu-details attributes

pattern-recognition-pu-details attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-filters

Type: List

oper_all-filters

Specification	Value
Type	*list*
Block object keys	

filter-count

Description

Type: number

filter-list

Type: List

filter-threshold

Description

Type: number

peace-pkt-count

Description

Type: number

processing-unit

Description

Type: string

state

Description

Type: string

timestamp

Description

Type: string

war-pkt-count

Description

Type: number

war-pkt-percentage

Description

Type: number

oper_all-filters_filter-list

Specification	Value
Type	*list*
Block object keys	

filter-desc

Description

Type: string

filter-enabled

Description

Type: number

filter-expr

Description

Type: string

hardware-filter

Description

Type: number

sample-ratio

Description

Type: number

2.33.288 ddos dst zone port zone-service port-ind

zone port indicators

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind
Element Attributes	port-ind_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind/oper
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind

port-ind attributes

port-ind attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ip-proto-type': IP Protocol Type; 'ddet_ind_pkt_rate_current': Pkt Rate Current; 'ddet_ind_pkt_rate_min': Pkt Rate Min; 'ddet_ind_pkt_rate_max': Pkt Rate Max; 'ddet_ind_pkt_rate_adaptive_threshold': Pkt Rate Adaptive Threshold; 'ddet_ind_pkt_drop_rate_current': Pkt Drop Rate Current; 'ddet_ind_pkt_drop_rate_min': Pkt Drop Rate Min; 'ddet_ind_pkt_drop_rate_max': Pkt Drop Rate Max; 'ddet_ind_pkt_drop_rate_adaptive_threshold': Pkt Drop Rate Adaptive Threshold; 'ddet_ind_syn_rate_current': TCP SYN Rate Current; 'ddet_ind_syn_rate_min': TCP SYN Rate Min; 'ddet_ind_syn_rate_max': TCP SYN Rate Max; 'ddet_ind_syn_rate_adaptive_threshold': TCP SYN Rate Adaptive Threshold; 'ddet_ind_fin_rate_current': TCP FIN Rate Current; 'ddet_ind_fin_rate_min': TCP FIN Rate Min; 'ddet_ind_fin_rate_max': TCP FIN Rate Max; 'ddet_ind_fin_rate_adaptive_threshold': TCP FIN Rate Adaptive Threshold; 'ddet_ind_rst_rate_current': TCP RST Rate Current; 'ddet_ind_rst_rate_min': TCP RST Rate Min; 'ddet_ind_rst_rate_max': TCP RST Rate Max; 'ddet_ind_rst_rate_adaptive_threshold': TCP RST Rate Adaptive Threshold; 'ddet_ind_small_window_ack_rate_current': TCP Small Window ACK Rate Current; 'ddet_ind_small_window_ack_rate_min': TCP Small Window ACK Rate Min; 'ddet_ind_small_window_ack_rate_max': TCP Small Window ACK Rate Max; 'ddet_ind_small_window_ack_rate_adaptive_threshold': TCP Small Window ACK Rate Adaptive Threshold; 'ddet_ind_empty_ack_rate_current': TCP Empty ACK Rate Current; 'ddet_ind_empty_ack_rate_min': TCP Empty ACK Rate Min; 'ddet_ind_empty_ack_rate_max': TCP Empty ACK Rate Max; 'ddet_ind_empty_ack_rate_adaptive_threshold': TCP Empty ACK Rate Adaptive Threshold; 'ddet_ind_small_payload_rate_current': TCP Small Payload Rate Current; 'ddet_ind_small_payload_rate_min': TCP Small Payload Rate Min; 'ddet_ind_small_payload_rate_max': TCP Small Payload Rate Max; 'ddet_ind_small_payload_rate_adaptive_threshold': TCP Small Payload Rate Adaptive Threshold; 'ddet_ind_pkt_drop_ratio_current': Pkt Drop / Pkt Rcvd Current; 'ddet_ind_pkt_drop_ratio_min': Pkt Drop / Pkt Rcvd Min; 'ddet_ind_pkt_drop_ratio_max': Pkt Drop / Pkt Rcvd Max; 'ddet_ind_pkt_drop_ratio_adaptive_threshold': Pkt Drop / Pkt Rcvd Adaptive Threshold; 'ddet_ind_inb_per_outb_current': Bytes-to / Bytes-from Current; 'ddet_ind_inb_per_outb_min': Bytes-to / Bytes-from Min; 'ddet_ind_inb_per_outb_max':

Bytes-to / Bytes-from Max; 'ddet_ind_inb_per_outb_adaptive_threshold': Bytes-to / Bytes-from Adaptive Threshold; 'ddet_ind_syn_per_fin_rate_current': TCP SYN Rate / FIN Rate Current; 'ddet_ind_syn_per_fin_rate_min': TCP SYN Rate / FIN Rate Min; 'ddet_ind_syn_per_fin_rate_max': TCP SYN Rate / FIN Rate Max; 'ddet_ind_syn_per_fin_rate_adaptive_threshold': TCP SYN Rate / FIN Rate Adaptive Threshold; 'ddet_ind_conn_miss_rate_current': TCP Session Miss Rate Current; 'ddet_ind_conn_miss_rate_min': TCP Session Miss Rate Min; 'ddet_ind_conn_miss_rate_max': TCP Session Miss Rate Max; 'ddet_ind_conn_miss_rate_adaptive_threshold': TCP Session Miss Rate Adaptive Threshold; 'ddet_ind_concurrent_conns_current': TCP/UDP Concurrent Sessions Current; 'ddet_ind_concurrent_conns_min': TCP/UDP Concurrent Sessions Min; 'ddet_ind_concurrent_conns_max': TCP/UDP Concurrent Sessions Max; 'ddet_ind_concurrent_conns_adaptive_threshold': TCP/UDP Concurrent Sessions Adaptive Threshold; 'ddet_ind_data_cpu_util_current': Data CPU Utilization Current; 'ddet_ind_data_cpu_util_min': Data CPU Utilization Min; 'ddet_ind_data_cpu_util_max': Data CPU Utilization Max; 'ddet_ind_data_cpu_util_adaptive_threshold': Data CPU Utilization Adaptive Threshold; 'ddet_ind_outside_intf_util_current': Outside Interface Utilization Current; 'ddet_ind_outside_intf_util_min': Outside Interface Utilization Min; 'ddet_ind_outside_intf_util_max': Outside Interface Utilization Max; 'ddet_ind_outside_intf_util_adaptive_threshold': Outside Interface Utilization Adaptive Threshold; 'ddet_ind_frag_rate_current': Frag Pkt Rate Current; 'ddet_ind_frag_rate_min': Frag Pkt Rate Min; 'ddet_ind_frag_rate_max': Frag Pkt Rate Max; 'ddet_ind_frag_rate_adaptive_threshold': Frag Pkt Rate Adaptive Threshold; 'ddet_ind_bit_rate_current': Bit Rate Current; 'ddet_ind_bit_rate_min': Bit Rate Min; 'ddet_ind_bit_rate_max': Bit Rate Max; 'ddet_ind_bit_rate_adaptive_threshold': Bit Rate Adaptive Threshold;

Type: string

Supported Values: all, ip-proto-type, ddet_ind_pkt_rate_current, ddet_ind_pkt_rate_min, ddet_ind_pkt_rate_max, ddet_ind_pkt_rate_adaptive_threshold, ddet_ind_pkt_drop_rate_current, ddet_ind_pkt_drop_rate_min, ddet_ind_pkt_drop_rate_max, ddet_ind_pkt_drop_rate_adaptive_threshold, ddet_ind_syn_rate_current, ddet_ind_syn_rate_min, ddet_ind_syn_rate_max, ddet_ind_syn_rate_adaptive_threshold, ddet_ind_fin_rate_current, ddet_ind_fin_rate_min, ddet_ind_fin_rate_max, ddet_ind_fin_rate_adaptive_threshold, ddet_ind_rst_rate_current, ddet_ind_rst_rate_min, ddet_ind_rst_rate_max, ddet_ind_rst_rate_adaptive_threshold, ddet_ind_small_window_ack_rate_current, ddet_ind_small_window_ack_rate_min, ddet_ind_small_window_ack_rate_max, ddet_ind_small_window_ack_rate_adaptive_threshold, ddet_ind_empty_ack_rate_current, ddet_ind_empty_ack_rate_min, ddet_ind_empty_ack_rate_max, ddet_ind_empty_ack_rate_adaptive_threshold, ddet_ind_small_payload_rate_current, ddet_ind_small_payload_rate_min, ddet_ind_small_payload_rate_max, ddet_ind_small_payload_rate_adaptive_threshold, ddet_ind_pkt_drop_ratio_current, ddet_ind_pkt_drop_ratio_min, ddet_ind_pkt_drop_ratio_max, ddet_ind_pkt_drop_ratio_adaptive_threshold, ddet_ind_inb_per_outb_current, ddet_ind_inb_per_outb_min, ddet_ind_inb_per_outb_max, ddet_ind_inb_per_outb_adaptive_threshold, ddet_ind_syn_per_fin_rate_current, ddet_ind_syn_per_fin_rate_min, ddet_ind_syn_per_fin_rate_max, ddet_ind_syn_per_fin_rate_adaptive_threshold, ddet_ind_conn_miss_rate_current, ddet_ind_conn_miss_rate_min, ddet_ind_conn_miss_rate_max, ddet_ind_conn_miss_rate_adaptive_threshold, ddet_ind_concurrent_conns_current, ddet_ind_concurrent_conns_min, ddet_ind_concurrent_conns_max, ddet_ind_concurrent_conns_adaptive_threshold, ddet_ind_data_cpu_util_current, ddet_ind_data_cpu_util_min, ddet_ind_data_cpu_util_max, ddet_ind_data_cpu_util_adaptive_threshold, ddet_ind_outside_intf_util_current,

ddet_ind_outside_intf_util_min, ddet_ind_outside_intf_util_max, ddet_ind_outside_intf_util_adaptive_threshold, ddet_ind_frag_rate_current, ddet_ind_frag_rate_min, ddet_ind_frag_rate_max, ddet_ind_frag_rate_adaptive_threshold, ddet_ind_bit_rate_current, ddet_ind_bit_rate_min, ddet_ind_bit_rate_max, ddet_ind_bit_rate_adaptive_threshold, ddet_ind_total_szp_current, ddet_ind_total_szp_min, ddet_ind_total_szp_max, ddet_ind_total_szp_adaptive_threshold, ddet_ind_syn_ack_rate_current, ddet_ind_syn_ack_rate_min, ddet_ind_syn_ack_rate_max, ddet_ind_syn_ack_rate_adaptive_threshold

2.33.289 ddos dst zone port zone-service port-ind oper

Operational Status for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind/oper
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind/oper

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind/oper

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind/oper

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind/oper

port-ind attributes

port-ind attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

active-time

Description

Type: number

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

ipv6

Description

Type: string

Format: ipv6-address

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

src-entry-list

Type: List

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-score

Description

Type: string

oper_src-entry-list

Specification	Value
Type	*list*
Block object keys	

active-time

Description

Type: number

current-level

Description

Type: string

detection-data-source

Description

Type: string

escalation-timestamp

Description

Type: string

indicators

Type: List

initial-learning

Description

Type: string

Supported Values: None, Initializing, Completed

src-address-str

Description

Type: string

src-level

Description

Type: string

total-score

Description

Type: string

oper_src-entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-average

Description

Type: string

src-maximum

Description

Type: string

src-minimum

Description

Type: string

src-non-zero-minimum

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

score

Description

Type: string

src-maximum

Description

Type: string

zone-adaptive-threshold

Description

Type: string

zone-average

Description

Type: string

zone-maximum

Description

Type: string

zone-minimum

Description

Type: string

zone-non-zero-minimum

Description

Type: string

oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

2.33.290 ddos dst zone port zone-service port-ind stats

Statistics for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind/stats
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind/stats

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind/stats

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind/stats

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/port-ind/stats

port-ind attributes

port-ind attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ddet_ind_bit_rate_adaptive_threshold

Description Bit Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_bit_rate_current

Description Bit Rate Current

Type: number

Format: counter

ddet_ind_bit_rate_max

Description Bit Rate Max

Type: number

Format: counter

ddet_ind_bit_rate_min

Description Bit Rate Min

Type: number

Format: counter

ddet_ind_concurrent_conns_adaptive_threshold

Description TCP/UDP Concurrent Sessions Adaptive Threshold

Type: number

Format: counter

ddet_ind_concurrent_conns_current

Description TCP/UDP Concurrent Sessions Current

Type: number

Format: counter

ddet_ind_concurrent_conns_max

Description TCP/UDP Concurrent Sessions Max

Type: number

Format: counter

ddet_ind_concurrent_conns_min

Description TCP/UDP Concurrent Sessions Min

Type: number

Format: counter

ddet_ind_conn_miss_rate_adaptive_threshold

Description TCP Session Miss Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_conn_miss_rate_current

Description TCP Session Miss Rate Current

Type: number

Format: counter

ddet_ind_conn_miss_rate_max

Description TCP Session Miss Rate Max

Type: number

Format: counter

ddet_ind_conn_miss_rate_min

Description TCP Session Miss Rate Min

Type: number

Format: counter

ddet_ind_data_cpu_util_adaptive_threshold

Description Data CPU Utilization Adaptive Threshold

Type: number

Format: counter

ddet_ind_data_cpu_util_current

Description Data CPU Utilization Current

Type: number

Format: counter

ddet_ind_data_cpu_util_max

Description Data CPU Utilization Max

Type: number

Format: counter

ddet_ind_data_cpu_util_min

Description Data CPU Utilization Min

Type: number

Format: counter

ddet_ind_empty_ack_rate_adaptive_threshold

Description TCP Empty ACK Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_empty_ack_rate_current

Description TCP Empty ACK Rate Current

Type: number

Format: counter

ddet_ind_empty_ack_rate_max

Description TCP Empty ACK Rate Max

Type: number

Format: counter

ddet_ind_empty_ack_rate_min

Description TCP Empty ACK Rate Min

Type: number

Format: counter

ddet_ind_fin_rate_adaptive_threshold

Description TCP FIN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_fin_rate_current

Description TCP FIN Rate Current

Type: number

Format: counter

ddet_ind_fin_rate_max

Description TCP FIN Rate Max

Type: number

Format: counter

ddet_ind_fin_rate_min

Description TCP FIN Rate Min

Type: number

Format: counter

ddet_ind_frag_rate_adaptive_threshold

Description Frag Pkt Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_frag_rate_current

Description Frag Pkt Rate Current

Type: number

Format: counter

ddet_ind_frag_rate_max

Description Frag Pkt Rate Max

Type: number

Format: counter

ddet_ind_frag_rate_min

Description Frag Pkt Rate Min

Type: number

Format: counter

ddet_ind_inb_per_outb_adaptive_threshold

Description Bytes-to / Bytes-from Adaptive Threshold

Type: number

Format: counter

ddet_ind_inb_per_outb_current

Description Bytes-to / Bytes-from Current

Type: number

Format: counter

ddet_ind_inb_per_outb_max

Description Bytes-to / Bytes-from Max

Type: number

Format: counter

ddet_ind_inb_per_outb_min

Description Bytes-to / Bytes-from Min

Type: number

Format: counter

ddet_ind_outside_intf_util_adaptive_threshold

Description Outside Interface Utilization Adaptive Threshold

Type: number

Format: counter

ddet_ind_outside_intf_util_current

Description Outside Interface Utilization Current

Type: number

Format: counter

ddet_ind_outside_intf_util_max

Description Outside Interface Utilization Max

Type: number

Format: counter

ddet_ind_outside_intf_util_min

Description Outside Interface Utilization Min

Type: number

Format: counter

ddet_ind_pkt_drop_rate_adaptive_threshold

Description Pkt Drop Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_drop_rate_current

Description Pkt Drop Rate Current

Type: number

Format: counter

ddet_ind_pkt_drop_rate_max

Description Pkt Drop Rate Max

Type: number

Format: counter

ddet_ind_pkt_drop_rate_min

Description Pkt Drop Rate Min

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_adaptive_threshold

Description Pkt Drop / Pkt Rcvd Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_current

Description Pkt Drop / Pkt Rcvd Current

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_max

Description Pkt Drop / Pkt Rcvd Max

Type: number

Format: counter

ddet_ind_pkt_drop_ratio_min

Description Pkt Drop / Pkt Rcvd Min

Type: number

Format: counter

ddet_ind_pkt_rate_adaptive_threshold

Description Pkt Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_pkt_rate_current

Description Pkt Rate Current

Type: number

Format: counter

ddet_ind_pkt_rate_max

Description Pkt Rate Max

Type: number

Format: counter

ddet_ind_pkt_rate_min

Description Pkt Rate Min

Type: number

Format: counter

ddet_ind_rst_rate_adaptive_threshold

Description TCP RST Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_rst_rate_current

Description TCP RST Rate Current

Type: number

Format: counter

ddet_ind_rst_rate_max

Description TCP RST Rate Max

Type: number

Format: counter

ddet_ind_rst_rate_min

Description TCP RST Rate Min

Type: number

Format: counter

ddet_ind_small_payload_rate_adaptive_threshold

Description TCP Small Payload Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_small_payload_rate_current

Description TCP Small Payload Rate Current

Type: number

Format: counter

ddet_ind_small_payload_rate_max

Description TCP Small Payload Rate Max

Type: number

Format: counter

ddet_ind_small_payload_rate_min

Description TCP Small Payload Rate Min

Type: number

Format: counter

ddet_ind_small_window_ack_rate_adaptive_threshold

Description TCP Small Window ACK Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_small_window_ack_rate_current

Description TCP Small Window ACK Rate Current

Type: number

Format: counter

ddet_ind_small_window_ack_rate_max

Description TCP Small Window ACK Rate Max

Type: number

Format: counter

ddet_ind_small_window_ack_rate_min

Description TCP Small Window ACK Rate Min

Type: number

Format: counter

ddet_ind_syn_ack_rate_adaptive_threshold

Description TCP SYN ACK Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_ack_rate_current

Description TCP SYN ACK Rate Current

Type: number

Format: counter

ddet_ind_syn_ack_rate_max

Description TCP SYN ACK Rate Max

Type: number

Format: counter

ddet_ind_syn_ack_rate_min

Description TCP SYN ACK Rate Min

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_adaptive_threshold

Description TCP SYN Rate / FIN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_current

Description TCP SYN Rate / FIN Rate Current

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_max

Description TCP SYN Rate / FIN Rate Max

Type: number

Format: counter

ddet_ind_syn_per_fin_rate_min

Description TCP SYN Rate / FIN Rate Min

Type: number

Format: counter

ddet_ind_syn_rate_adaptive_threshold

Description TCP SYN Rate Adaptive Threshold

Type: number

Format: counter

ddet_ind_syn_rate_current

Description TCP SYN Rate Current

Type: number

Format: counter

ddet_ind_syn_rate_max

Description TCP SYN Rate Max

Type: number

Format: counter

ddet_ind_syn_rate_min

Description TCP SYN Rate Min

Type: number

Format: counter

ddet_ind_total_szp_adaptive_threshold

Description Total Learnt Sources Adaptive Threshold

Type: number

Format: counter

ddet_ind_total_szp_current

Description Total Learnt Sources Current

Type: number

Format: counter

ddet_ind_total_szp_max

Description Total Learnt Sources Max

Type: number

Format: counter

ddet_ind_total_szp_min

Description Total Learnt Sources Min

Type: number

Format: counter

ip-proto-type

Description IP Protocol Type

Type: number

Format: counter

2.33.291 ddos dst zone port zone-service progression-tracking

DDos dst zone-service progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking
Element Attributes	progression-tracking_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking/oper
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking

progression-tracking attributes

progression-tracking attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.292 ddos dst zone port zone-service progression-tracking oper

Operational Status for the object progression-tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking/oper
Element Attributes	progression-tracking_attributes
Partition Visibility	None
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking/oper

progression-tracking attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking/oper

progression-tracking attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking/oper

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/progression-tracking/oper

progression-tracking attributes

progression-tracking attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

indicators

Type: List

learning-brief

Description

Type: boolean

Supported Values: true, false, 1, 0

learning-details

Description

Type: boolean

Supported Values: true, false, 1, 0

recommended-template

Description

Type: boolean

Supported Values: true, false, 1, 0

template-debug-table

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_indicators

Specification	Value
Type	*list*
Block object keys	

average

Description

Type: string

indicator-index

Description

Type: number

indicator-name

Description

Type: string

maximum

Description

Type: string

minimum

Description

Type: string

num-sample

Description

Type: number

standard-deviation

Description

Type: string

2.33.293 ddos dst zone port zone-service src-based-policy

Configure src-based policy

src-based-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*src-based-policy-name*
Collection Name	*src-based-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy
Element Name	src-based-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}
Element Attributes	src-based-policy_attributes
Partition Visibility	shared
Schema	`src-based-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy

src-based-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy

src-based-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy

src-based-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy

src-based-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}

src-based-policy attributes

src-based-policy-list

src-based-policy-list is **JSON List** of *src-based-policy attributes*

```
src-based-policy-list : [
        { src-based-policy attributes },
        { src-based-policy attributes },
        ...
    ]
```

src-based-policy attributes

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}*

src-based-policy-name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, quic, dns, http, ssl-l4, sip, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *policy-class-list-list_zone-template*

Type: Object

policy-class-list-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

policy-class-list-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns and class-list-glid are mutually exclusive

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: quic and class-list-glid are mutually exclusive

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip and class-list-glid are mutually exclusive

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4 and class-list-glid are mutually exclusive

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

policy-class-list-list_class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *policy-class-list-list_class-list-overflow-policy-list_zone-template*

Type: Object

policy-class-list-list_class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.294 ddos dst zone port zone-service src-based-policy policy-class-list

Configure class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*class-list-name*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Attributes	policy-class-list_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

```
policy-class-list-list : [
        { policy-class-list attributes },
        { policy-class-list attributes },
        ...
    ]
```

policy-class-list attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

class-list-glid

Description Global limit ID (class-list based)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: class-list-glid,glid, quic, dns, http, ssl-l4, sip, tcp, and udp are mutually exclusive

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

class-list-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}*

dynamic-entry-count-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: glid and class-list-glid are mutually exclusive

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic source zone service entry allowed for this class-list

Type: number

Range: 0-2147483647

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_received': Packets Received; 'packet_dropped': Packets Dropped; 'entry_learned': Entry Learned; 'entry_count_overflow': Entry Count Overflow;

Type: string

Supported Values: all, packet_received, packet_dropped, entry_learned, entry_count_overflow, exceed_drop_pkt_rate_clist, exceed_drop_conn_rate_clist, exceed_drop_conn_limit_clist, exceed_drop_kbit_rate_clist, exceed_drop_kbit_rate_clist_pkt, exceed_drop_frag_rate_clist

zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns and class-list-glid are mutually exclusive

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http and class-list-glid are mutually exclusive

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: quic and class-list-glid are mutually exclusive

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip and class-list-glid are mutually exclusive

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4 and class-list-glid are mutually exclusive

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp and class-list-glid are mutually exclusive

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp and class-list-glid are mutually exclusive

class-list-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *class-list-overflow-policy-list_zone-template*

Type: Object

class-list-overflow-policy-list_zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.295 ddos dst zone port zone-service src-based-policy policy-class-list class-list-overflow-policy

Configure dynamic entry count overflow policy for class-list

class-list-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dummy-name*
Collection Name	*class-list-overflow-policy-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy
Element Name	class-list-overflow-policy
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}
Element Attributes	class-list-overflow-policy_attributes
Partition Visibility	shared
Schema	`class-list-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy

class-list-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/class-list-overflow-policy/{dummy-name}

class-list-overflow-policy attributes

class-list-overflow-policy-list

class-list-overflow-policy-list is **JSON List** of *class-list-overflow-policy attributes*

class-list-overflow-policy-list : [

{ *class-list-overflow-policy attributes* },

{ *class-list-overflow-policy attributes* },

...

]

class-list-overflow-policy attributes

action

Description 'bypass': Always permit for the Source to bypass all feature & limit checks; 'deny': Blacklist incoming packets for service;

Type: string

Supported Values: bypass, deny

dummy-name

Description 'configuration': Configure overflow policy for class-list;

Type: string

Supported Values: configuration

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

log-enable

Description Enable logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-periodic

Description Enable log periodic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

encap

Description DDOS encap template (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

quic

Description DDOS quic template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp

Description DDOS udp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.296 ddos dst zone port zone-service src-based-policy policy-class-list oper

Operational Status for the object policy-class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper
Element Attributes	policy-class-list_attributes
Partition Visibility	None
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/oper

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

connection-limit

Description

Type: number

connection-rate-limit

Description

Type: number

current-connection-rate

Description

Type: number

current-connections

Description

Type: number

current-frag-packet-rate

Description

Type: number

current-kBit-rate

Description

Type: number

current-packet-rate

Description

Type: number

debug-str

Description

Type: string

frag-packet-rate-limit

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

kBit-rate-limit

Description

Type: number

packet-rate-limit

Description

Type: number

2.33.297 ddos dst zone port zone-service src-based-policy policy-class-list stats

Statistics for the object policy-class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats
Element Attributes	policy-class-list_attributes
Partition Visibility	None
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/src-based-policy/{src-based-policy-name}/policy-class-list/{class-list-name}/stats

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

entry_count_overflow

Description Entry Count Overflow

Type: number

Format: counter

entry_learned

Description Entry Learned

Type: number

Format: counter

exceed_drop_conn_limit_clist

Description Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_conn_rate_clist

Description Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_frag_rate_clist

Description Frag Rate Exceeded

Type: number

Format: counter

exceed_drop_kbit_rate_clist

Description KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_kbit_rate_clist_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_pkt_rate_clist

Description Packet Rate Exceeded

Type: number

Format: counter

packet_dropped

Description Packets Dropped

Type: number

Format: counter

packet_received

Description Packets Received

Type: number

Format: counter

2.33.298 ddos dst zone port zone-service topk-destinations

DDos dst zone-service indicators top destinations

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations
Element Attributes	topk-destinations_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations/oper
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations

topk-destinations attributes

topk-destinations attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.299 ddos dst zone port zone-service topk-destinations oper

Operational Status for the object topk-destinations

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations/oper
Element Attributes	topk-destinations_attributes
Partition Visibility	None
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations/oper

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations/oper

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations/oper

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-destinations/oper

topk-destinations attributes

topk-destinations attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.300 ddos dst zone port zone-service topk-sources

DDos dst zone-service indicators top sources

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources
Element Attributes	topk-sources_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources/oper
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources

topk-sources attributes

topk-sources attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.301 ddos dst zone port zone-service topk-sources oper

Operational Status for the object topk-sources

topk-sources Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-sources
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources/oper
Element Attributes	topk-sources_attributes
Partition Visibility	None
Schema	`topk-sources schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources/oper

topk-sources attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources/oper

topk-sources attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources/oper

topk-sources attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/topk-sources/oper

topk-sources attributes

topk-sources attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

sources

Type: List

oper_indicators_sources

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.302 ddos dst zone port zone-service virtualhosts

Configure virtualhost based mitigation for SSL services

virtualhosts Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	virtualhosts
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts
Element Attributes	virtualhosts_attributes
Partition Visibility	shared
Schema	`virtualhosts schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts

virtualhosts attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts

virtualhosts attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts

virtualhosts attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts

virtualhosts attributes

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts

virtualhosts attributes

virtualhosts attributes

source-tracking-all

Description enable creation of source entries for all virtualhosts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhosts-config

Description 'configuration': configure virtualhost based mitigation for ssl services;

Type: string

Supported Values: configuration

virtualhost-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}*

virtualhost-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *virtualhost-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}*

servername

Type: List

servername-list

Description Class List to match servername (AC type Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername-match-any

Description Match when there is no SNI or other servernames are not matched

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

servername-no-sni

Description Match when there is no SNI extension found

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-tracking

Description 'follow': enable creation of source entries when source-tracking-all is enabled (default); 'enable': enable creation of source entries on this virtualhost; 'disable': disable creation of source entries on this virtualhost;

Type: string

Supported Values: follow, enable, disable

Default: follow

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

virtualhost-list_servername

Specification	Value
Type	*list*
Block object keys	

host-match-string

Description SNI String

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'contains': match servername extension when contains this string; 'ends-with': match servername extension when ends with this string; 'equals': match servername extension when equals this string; 'starts-with': match servername extension when starts with this string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

virtualhost-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

virtualhost-list_level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *virtualhost-list_level-list_zone-template*

Type: Object

virtualhost-list_level-list_zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.303 ddos dst zone port zone-service virtualhosts virtualhost

Configure mitigation for virtualhost

virtualhost Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*vhost*
Collection Name	*virtualhost-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost
Element Name	virtualhost
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}
Element Attributes	virtualhost_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/oper
Schema	`virtualhost schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost

virtualhost attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost

virtualhost attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost

virtualhost-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost

virtualhost-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost attributes

virtualhost-list

virtualhost-list is **JSON List** of *virtualhost attributes*

virtualhost-list : [

{ *virtualhost attributes* },

{ *virtualhost attributes* },

...

]

virtualhost attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}*

servername

Type: List

servername-list

Description Class List to match servername (AC type Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername-match-any

Description Match when there is no SNI or other servernames are not matched

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

servername-no-sni

Description Match when there is no SNI extension found

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

source-tracking

Description 'follow': enable creation of source entries when source-tracking-all is enabled (default); 'enable': enable creation of source entries on this virtualhost; 'disable': disable creation of source entries on this virtualhost;

Type: string

Supported Values: follow, enable, disable

Default: follow

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

servername

Specification	Value
Type	*list*
Block object keys	

host-match-string

Description SNI String

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

match-type

Description 'contains': match servername extension when contains this string; 'ends-with': match servername extension when ends with this string; 'equals': match servername extension when equals this string; 'starts-with': match servername extension when starts with this string;

Type: string

Supported Values: contains, ends-with, equals, starts-with

glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

level-list

Specification	Value
Type	*list*
Block object keys	

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *level-list_zone-template*

Type: Object

level-list_zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.304 ddos dst zone port zone-service virtualhosts virtualhost level

Virtualhost Policy Level Configuration

level Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*level-num*
Collection Name	*level-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level
Element Name	level
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}
Element Attributes	level_attributes
Partition Visibility	shared
Schema	`level schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level

level attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level

level attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}

level attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level

level-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}

level attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}

level attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level

level-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/level/{level-num}

level attributes

level-list

level-list is **JSON List** of *level attributes*

level-list : [

{ *level attributes* },

{ *level attributes* },

...

]

level attributes

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'blacklist-src': Blacklist-src for glid exceed; 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

level-num

Description '0': Default policy level;

Type: string

Supported Values: 0

src-default-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

zone-template

Specification	Value
Type	*object*

ssl-l4

Description DDOS ssl-l4 template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description DDOS tcp template

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.305 ddos dst zone port zone-service virtualhosts virtualhost oper

Operational Status for the object virtualhost

virtualhost Specification

Parameter	Value
Type	*Collection*
Collection Name	*virtualhost-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}
Element Name	virtualhost
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/oper
Element Attributes	virtualhost_attributes
Partition Visibility	None
Schema	`virtualhost schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/oper

virtualhost attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/oper

virtualhost attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/oper

virtualhost attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}

virtualhost-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/port/zone-service/{port-num}+{protocol}/virtualhosts/virtualhost/{vhost}/oper

virtualhost attributes

virtualhost-list

virtualhost-list is **JSON List** of *virtualhost attributes*

virtualhost-list : [

{ *virtualhost attributes* },

{ *virtualhost attributes* },

...

]

virtualhost attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

vhost

Description name for virtualhost

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Specification	Value
Type	*object*

app-stat

Description

Type: boolean

Supported Values: true, false, 1, 0

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list

Description

Type: string

ddos_entry_list

Type: List

domain-name

Description

Type: string

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

indicator-detail

Description

Type: boolean

Supported Values: true, false, 1, 0

indicators

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

level

Description

Type: boolean

Supported Values: true, false, 1, 0

overflow-policy

Description

Type: boolean

Supported Values: true, false, 1, 0

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

suffix-request-rate

Description

Type: boolean

Supported Values: true, false, 1, 0

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bl-reasoning-rcode

Description

Type: string

bl-reasoning-timestamp

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

http-filter-rates

Type: List

hw-blocked-rules

Type: List

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

response-size-rates

Type: List

sflow-source-id

Description

Type: number

oper_ddos_entry_list_hw-blocked-rules

Specification	Value
Type	*list*
Block object keys	

hw-blocking-state

Description

Type: string

rule-dst-ip

Description

Type: string

oper_ddos_entry_list_response-size-rates

Specification	Value
Type	*list*
Block object keys	

current-response-size-rate

Description

Type: string

is-response-size-rate-limit-exceed

Description

Type: number

response-size-rate-limit

Description

Type: string

response-size-rate-name

Description

Type: string

oper_ddos_entry_list_http-filter-rates

Specification	Value
Type	*list*
Block object keys	

current-http-filter-rate

Description

Type: string

http-filter-rate-limit

Description

Type: string

http-filter-rate-name

Description

Type: string

is-http-filter-rate-limit-exceed

Description

Type: number

2.33.306 ddos dst zone src-port

DDOS IP protocol configuration

src-port Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	src-port
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port
Element Attributes	src-port_attributes
Partition Visibility	shared
Schema	`src-port schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port

src-port_attributes

src-port attributes

zone-src-port-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}*

zone-src-port-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}*

zone-src-port-list

Specification	Value
Type	*list*
Block object keys	

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-src-port-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}*

outbound-src-tracking

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

port-ind

Description: port-ind is a **JSON Block**. Please see below for *zone-src-port-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind*

port-num

Description Source Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-udp': DNS-UDP Port; 'dns-tcp': DNS-TCP Port; 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: dns-udp, dns-tcp, udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-src-port-list_zone-template*

Type: Object

zone-src-port-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

zone-src-port-list_zone-template

Specification	Value
Type	*object*

src-dns

Description DDOS dns src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-src-port-list_port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-src-port-list_level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-src-port-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

zone-src-port-other-list

Specification	Value
Type	*list*
Block object keys	

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *zone-src-port-other-list_glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *zone-src-port-other-list_port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-src-port-other-list_zone-template*

Type: Object

zone-src-port-other-list_glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

zone-src-port-other-list_zone-template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-src-port-other-list_port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-src-port-other-list_level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-src-port-other-list_level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

2.33.307 ddos dst zone src-port-range

DDOS Port & Protocol configuration

src-port-range Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*src-port-range-start, src-port-range-end, protocol*
Collection Name	*src-port-range-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range
Element Name	src-port-range
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}
Element Attributes	src-port-range_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/oper
Schema	`src-port-range schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range

src-port-range attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range

src-port-range attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range

src-port-range-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range

src-port-range-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range attributes

src-port-range-list

src-port-range-list is **JSON List** of *src-port-range attributes*

```
src-port-range-list : [
        { src-port-range attributes },
        { src-port-range attributes },
        ...
    ]
```

src-port-range attributes

capture-config

Description: capture-config is a **JSON Block**. Please see below for *capture-config*

Type: Object

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind*

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

src-port-range-end

Description Src Port-Range End Port Number

Type: number

Range: 2-65535

src-port-range-start

Description Src Port-Range Start Port Number

Type: number

Range: 1-65535

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

capture-config

Specification	Value
Type	*object*

capture-config-mode

Description 'drop': Apply capture-config to dropped packets; 'forward': Apply capture-config to forwarded packets; 'all': Apply capture-config to both dropped and forwarded packets;

Type: string

Supported Values: drop, forward, all

capture-config-name

Description Capture-config name

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

zone-template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the port-range

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the port-range

Type: number

Range: 1-2147483647

2.33.308 ddos dst zone src-port-range level

Policy Level Configuration

level Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*level-num*
Collection Name	*level-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level
Element Name	level
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}
Element Attributes	level_attributes
Partition Visibility	shared
Schema	`level schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level

level attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level

level attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}

level attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level

level-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}

level attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}

level attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level

level-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}

level attributes

level-list

level-list is **JSON List** of *level attributes*

level-list : [

{ *level attributes* },

{ *level attributes* },

...

]

level attributes

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the port-range

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the port-range

Type: number

Range: 1-2147483647

2.33.309 ddos dst zone src-port-range level indicator

DDoS Indicator Configuration

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator/{type}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

```
indicator-list : [
        { indicator attributes },
        { indicator attributes },
        ...
    ]
```

indicator attributes

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the port-range

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the port-range

Type: number

Range: 1-2147483647

2.33.310 ddos dst zone src-port-range oper

Operational Status for the object src-port-range

src-port-range Specification

Parameter	Value
Type	*Collection*
Collection Name	*src-port-range-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}
Element Name	src-port-range
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/oper
Element Attributes	src-port-range_attributes
Partition Visibility	None
Schema	`src-port-range schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/oper

src-port-range attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/oper

src-port-range attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/oper

src-port-range attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}

src-port-range-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/oper

src-port-range attributes

src-port-range-list

src-port-range-list is **JSON List** of *src-port-range attributes*

src-port-range-list : [

{ *src-port-range attributes* },

{ *src-port-range attributes* },

...

]

src-port-range attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind*

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

src-port-range-end

Description Src Port-Range End Port Number

Type: number

Range: 2-65535

src-port-range-start

Description Src Port-Range Start Port Number

Type: number

Range: 1-65535

oper

Specification	Value
Type	*object*

ddos_entry_list

Type: List

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-ind_oper*

Type: Object

port-ind_oper

Specification	Value
Type	*object*

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

indicators

Type: List

port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

2.33.311 ddos dst zone src-port-range port-ind

zone src port-range indicators

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind
Element Attributes	port-ind_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind/oper
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind

port-ind attributes

port-ind attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.312 ddos dst zone src-port-range port-ind oper

Operational Status for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind/oper
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind/oper

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind/oper

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind/oper

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port-range/{src-port-range-start}+{src-port-range-end}+{protocol}/port-ind/oper

port-ind attributes

port-ind attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

indicators

Type: List

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

2.33.313 ddos dst zone src-port zone-src-port

DDOS Port & Protocol configuration

zone-src-port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num, protocol*
Collection Name	*zone-src-port-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port
Element Name	zone-src-port
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}
Element Attributes	zone-src-port_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/oper
Schema	`zone-src-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port

zone-src-port attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port

zone-src-port attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}

zone-src-port attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port

zone-src-port-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}

zone-src-port attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}

zone-src-port attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port

zone-src-port-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}

zone-src-port attributes

zone-src-port-list

zone-src-port-list is **JSON List** of *zone-src-port attributes*

```
zone-src-port-list : [
        { zone-src-port attributes },
        { zone-src-port attributes },
        ...
    ]
```

zone-src-port attributes

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}*

outbound-src-tracking

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind*

port-num

Description Source Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-udp': DNS-UDP Port; 'dns-tcp': DNS-TCP Port; 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: dns-udp, dns-tcp, udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

zone-template

Specification	Value
Type	*object*

src-dns

Description DDOS dns src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

2.33.314 ddos dst zone src-port zone-src-port level

Policy Level Configuration

level Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*level-num*
Collection Name	*level-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level
Element Name	level
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}
Element Attributes	level_attributes
Partition Visibility	shared
Schema	`level schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level

level attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level

level attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}

level attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level

level-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}

level attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}

level attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level

level-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}

level attributes

level-list

level-list is **JSON List** of *level attributes*

level-list : [

{ *level attributes* },

{ *level attributes* },

...

]

level attributes

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

2.33.315 ddos dst zone src-port zone-src-port level indicator

DDoS Indicator Configuration

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator/{type}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

indicator-list : [

{ *indicator attributes* },

{ *indicator attributes* },

…

]

indicator attributes

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

2.33.316 ddos dst zone src-port zone-src-port oper

Operational Status for the object zone-src-port

zone-src-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*zone-src-port-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}
Element Name	zone-src-port
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/oper
Element Attributes	zone-src-port_attributes
Partition Visibility	None
Schema	`zone-src-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}

zone-src-port attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}

zone-src-port attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/oper

zone-src-port attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}

zone-src-port-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/oper

zone-src-port attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/oper

zone-src-port attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}

zone-src-port-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/oper

zone-src-port attributes

zone-src-port-list

zone-src-port-list is **JSON List** of *zone-src-port attributes*

```
zone-src-port-list : [
        { zone-src-port attributes },
        { zone-src-port attributes },
        ...
    ]
```

zone-src-port attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind*

port-num

Description Source Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-udp': DNS-UDP Port; 'dns-tcp': DNS-TCP Port; 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: dns-udp, dns-tcp, udp, tcp

oper

Specification	Value
Type	*object*

ddos_entry_list

Type: List

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-ind_oper*

Type: Object

port-ind_oper

Specification	Value
Type	*object*

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

indicators

Type: List

port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

2.33.317 ddos dst zone src-port zone-src-port-other

DDOS Port & Protocol configuration

zone-src-port-other Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-other, protocol*
Collection Name	*zone-src-port-other-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other
Element Name	zone-src-port-other
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}
Element Attributes	zone-src-port-other_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/stats
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/oper
Schema	`zone-src-port-other schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other

zone-src-port-other attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other

zone-src-port-other attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}

zone-src-port-other attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other

zone-src-port-other-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}

zone-src-port-other attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}

zone-src-port-other attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other

zone-src-port-other-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}

zone-src-port-other attributes

zone-src-port-other-list

zone-src-port-other-list is **JSON List** of *zone-src-port-other attributes*

zone-src-port-other-list : [

{ *zone-src-port-other attributes* },

{ *zone-src-port-other attributes* },

...

]

zone-src-port-other attributes

default-action-list

Description Configure default-action-list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid-cfg

Description: glid-cfg is a **JSON Block**. Please see below for *glid-cfg*

Type: Object

level-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}*

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

set-counter-base-val

Description Set T2 counter value of current context to specified value

Type: number

Range: 1-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-template

Description: zone-template is a **JSON Block**. Please see below for *zone-template*

Type: Object

glid-cfg

Specification	Value
Type	*object*

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

glid-action

Description 'drop': Drop packets for glid exceed (Default); 'ignore': Do nothing for glid exceed;

Type: string

Supported Values: drop, ignore

zone-template

Specification	Value
Type	*object*

src-tcp

Description DDOS tcp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

src-udp

Description DDOS udp src template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

port-ind

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

level-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

level-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

2.33.318 ddos dst zone src-port zone-src-port-other level

Policy Level Configuration

level Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*level-num*
Collection Name	*level-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level
Element Name	level
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}
Element Attributes	level_attributes
Partition Visibility	shared
Schema	`level schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level

level attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level

level attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}

level attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level

level-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}

level attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}

level attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level

level-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}

level attributes

level-list

level-list is **JSON List** of *level attributes*

level-list : [

{ *level attributes* },

{ *level attributes* },

…

]

level attributes

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}*

level-num

Description '0': Default policy level; '1': Policy level 1;

Type: string

Supported Values: 0, 1

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

2.33.319 ddos dst zone src-port zone-src-port-other level indicator

DDoS Indicator Configuration

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/level/{level-num}/indicator/{type}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

```
indicator-list : [
        { indicator attributes },
        { indicator attributes },
        ...
    ]
```

indicator attributes

type

Description 'pkt-rate': rate of incoming packets; 'bit-rate': rate of incoming bits;

Type: string

Supported Values: pkt-rate, bit-rate

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-large-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold of the entire zone for the src-port

Type: number

Range: 1-2147483647

2.33.320 ddos dst zone src-port zone-src-port-other oper

Operational Status for the object zone-src-port-other

zone-src-port-other Specification

Parameter	Value
Type	*Collection*
Collection Name	*zone-src-port-other-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}
Element Name	zone-src-port-other
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/oper
Element Attributes	zone-src-port-other_attributes
Partition Visibility	None
Schema	`zone-src-port-other schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}

zone-src-port-other attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}

zone-src-port-other attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/oper

zone-src-port-other attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}

zone-src-port-other-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/oper

zone-src-port-other attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/oper

zone-src-port-other attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}

zone-src-port-other-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/oper

zone-src-port-other attributes

zone-src-port-other-list

zone-src-port-other-list is **JSON List** of *zone-src-port-other attributes*

zone-src-port-other-list : [

{ *zone-src-port-other attributes* },

{ *zone-src-port-other attributes* },

...

]

zone-src-port-other attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

port-ind

Description: port-ind is a **JSON Block**. Please see below for *port-ind*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind*

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

oper

Specification	Value
Type	*object*

ddos_entry_list

Type: List

entry-displayed-count

Description

Type: number

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

reporting-status

Description

Type: number

service-displayed-count

Description

Type: number

sources

Description

Type: boolean

Supported Values: true, false, 1, 0

sources-all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: number

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

bw-state

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

is-app-stat1-exceed

Description

Type: number

is-app-stat2-exceed

Description

Type: number

is-app-stat3-exceed

Description

Type: number

is-app-stat4-exceed

Description

Type: number

is-app-stat5-exceed

Description

Type: number

is-app-stat6-exceed

Description

Type: number

is-app-stat7-exceed

Description

Type: number

is-app-stat8-exceed

Description

Type: number

is-connection-rate-exceed

Description

Type: number

is-connections-exceed

Description

Type: number

is-frag-packet-rate-exceed

Description

Type: number

is-kBit-rate-exceed

Description

Type: number

is-packet-rate-exceed

Description

Type: number

is_auth_passed

Description

Type: string

kBit-rate-limit

Description

Type: string

level

Description

Type: number

lockup-time

Description

Type: number

packet-rate-limit

Description

Type: string

sflow-source-id

Description

Type: number

port-ind

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *port-ind_oper*

Type: Object

port-ind_oper

Specification	Value
Type	*object*

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

indicators

Type: List

port-ind_oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

port-ind_oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

2.33.321 ddos dst zone src-port zone-src-port-other port-ind

zone src port other indicators

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind
Element Attributes	port-ind_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind/oper
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind

port-ind attributes

port-ind attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.322 ddos dst zone src-port zone-src-port-other port-ind oper

Operational Status for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind/oper
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind/oper

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind/oper

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind/oper

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port-other/{port-other}+{protocol}/port-ind/oper

port-ind attributes

port-ind attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

indicators

Type: List

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

2.33.323 ddos dst zone src-port zone-src-port port-ind

zone src port indicators

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind
Element Attributes	port-ind_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind/oper
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind

port-ind attributes

port-ind attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.324 ddos dst zone src-port zone-src-port port-ind oper

Operational Status for the object port-ind

port-ind Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port-ind
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind/oper
Element Attributes	port-ind_attributes
Partition Visibility	None
Schema	`port-ind schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind/oper

port-ind attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind/oper

port-ind attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind/oper

port-ind attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/src-port/zone-src-port/{port-num}+{protocol}/port-ind/oper

port-ind attributes

port-ind attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

current-level

Description

Type: string

details

Description

Type: boolean

Supported Values: true, false, 1, 0

detection-data-source

Description

Type: string

indicators

Type: List

oper_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-cfg

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

rate

Description

Type: string

oper_indicators_indicator-cfg

Specification	Value
Type	*list*
Block object keys	

level

Description

Type: number

source-threshold

Description

Type: string

zone-threshold

Description

Type: string

2.33.325 ddos dst zone stats

Statistics for the object zone

zone Specification

Parameter	Value
Type	*Collection*
Collection Name	*zone-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}
Element Name	zone
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/stats
Element Attributes	zone_attributes
Partition Visibility	None
Schema	`zone schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}

zone attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}

zone attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/stats

zone attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}

zone-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/stats

zone attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/stats

zone attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}

zone-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/stats

zone attributes

zone-list

zone-list is **JSON List** of *zone attributes*

zone-list : [

{ *zone attributes* },

{ *zone attributes* },

...

]

zone attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

zone-name

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

stats

Specification	Value
Type	*object*

dns_outbound_query_malformed

Description DNS Outbound Query Malformed

Type: number

Format: counter

dns_outbound_query_resp_chk_blacklisted

Description DNS Outbound Query Resp Check Blacklisted

Type: number

Format: counter

dns_outbound_query_resp_chk_failed

Description DNS Outbound Query Resp Check Failed

Type: number

Format: counter

dns_outbound_query_resp_chk_no_resp_sent

Description DNS Outbound Query Resp Check No Response Sent

Type: number

Format: counter

dns_outbound_query_resp_chk_refused_sent

Description DNS Outbound Query Resp Check REFUSED Sent

Type: number

Format: counter

dns_outbound_query_resp_chk_reset_sent

Description DNS Outbound Query Resp Check RESET Sent

Type: number

Format: counter

dns_outbound_query_resp_size_exceed

Description DNS Outbound Query Response Size Exceed

Type: number

Format: counter

dns_outbound_query_sess_timed_out

Description DNS Outbound Query Session Timed Out

Type: number

Format: counter

dns_outbound_total_query

Description DNS Outbound Total Query

Type: number

Format: counter

dst_clist_overflow_policy_at_learning

Description Dst Src-Based Overflow Policy Hit

Type: number

Format: counter

dst_drop

Description Inbound: Packets Dropped

Type: number

Format: counter

dst_entry_conn_limit_exceed

Description Entry Limit: Conn Exceeded

Type: number

Format: counter

dst_entry_conn_rate_exceed

Description Entry Rate: Conn Exceeded

Type: number

Format: counter

dst_entry_frag_pkt_rate_exceed

Description Entry Rate: Frag Packet Exceeded

Type: number

Format: counter

dst_entry_kbit_rate_exceed

Description Entry Rate: KiBit Exceeded

Type: number

Format: counter

dst_entry_kbit_rate_exceed_count

Description Entry Rate: KiBit Exceeded Count

Type: number

Format: counter

dst_entry_outbound_conn_limit_exceed

Description Outbound Limit: Conn Exceeded

Type: number

Format: counter

dst_entry_outbound_conn_rate_exceed

Description Outbound Rate: Conn Exceeded

Type: number

Format: counter

dst_entry_outbound_frag_pkt_rate_exceed

Description Outbound Rate: Frag Packet Exceeded

Type: number

Format: counter

dst_entry_outbound_kbit_rate_exceed

Description Outbound Rate: KiBit Exceeded

Type: number

Format: counter

dst_entry_outbound_kbit_rate_exceed_count

Description Outbound Rate: KiBit Exceeded Count

Type: number

Format: counter

dst_entry_outbound_pkt_rate_exceed

Description Outbound Rate: Packet Exceeded

Type: number

Format: counter

dst_entry_outbound_tcp_session_aged

Description Outbound: TCP Sessions Aged

Type: number

Format: counter

dst_entry_outbound_tcp_session_created

Description Outbound: TCP Sessions Created

Type: number

Format: counter

dst_entry_outbound_udp_session_aged

Description Outbound: UDP Sessions Aged

Type: number

Format: counter

dst_entry_outbound_udp_session_created

Description Outbound: UDP Sessions Created

Type: number

Format: counter

dst_entry_pkt_rate_exceed

Description Entry Rate: Packet Exceeded

Type: number

Format: counter

dst_exceed_action_drop

Description Entry Exceed Action: Dropped

Type: number

Format: counter

dst_exceed_action_tunnel

Description Entry Exceed Action: Tunnel

Type: number

Format: counter

dst_icmp_any_exceed

Description ICMP Rate: Total Exceed

Type: number

Format: counter

dst_icmp_bytes_rcv

Description ICMP Total Bytes Received

Type: number

Format: counter

dst_icmp_bytes_sent

Description ICMP Total Bytes Forwarded

Type: number

Format: counter

dst_l4_icmp_blacklist_drop

Description Dst ICMP IP-Proto Blacklist Dropped

Type: number

Format: counter

dst_l4_other_blacklist_drop

Description Dst OTHER IP-Proto Blacklist Dropped

Type: number

Format: counter

dst_l4_tcp_blacklist_drop

Description Dst TCP IP-Proto Blacklist Dropped

Type: number

Format: counter

dst_l4_udp_blacklist_drop

Description Dst UDP IP-Proto Blacklist Dropped

Type: number

Format: counter

dst_other_any_exceed

Description OTHER Rate: Total Exceed

Type: number

Format: counter

dst_other_bytes_rcv

Description OTHER Total Bytes Received

Type: number

Format: counter

dst_other_bytes_sent

Description OTHER Total Bytes Forwarded

Type: number

Format: counter

dst_src_learn_overflow

Description Src Dynamic Entry Count Overflow

Type: number

Format: counter

dst_tcp_auth_drop

Description TCP Auth: Dropped

Type: number

Format: counter

dst_tcp_auth_resp

Description TCP Auth: Responded

Type: number

Format: counter

dst_tcp_auth_rst

Description TCP Auth: Reset

Type: number

Format: counter

dst_tcp_bytes_rcv

Description TCP Total Bytes Received

Type: number

Format: counter

dst_tcp_bytes_sent

Description TCP Total Bytes Forwarded

Type: number

Format: counter

dst_tcp_conn_close

Description TCP Connections Closed

Type: number

Format: counter

dst_tcp_conn_close_half_open

Description TCP Half Open Connections Closed

Type: number

Format: counter

dst_tcp_conn_close_w_fin

Description TCP FIN Connections Closed

Type: number

Format: counter

dst_tcp_conn_close_w_idle

Description TCP Idle Connections Closed

Type: number

Format: counter

dst_tcp_conn_close_w_rst

Description TCP RST Connections Closed

Type: number

Format: counter

dst_tcp_conn_create_from_ack

Description TCP Connections Created From ACK

Type: number

Format: counter

dst_tcp_conn_create_from_syn

Description TCP Connections Created From SYN

Type: number

Format: counter

dst_tcp_session_aged

Description TCP Sessions Aged

Type: number

Format: counter

dst_udp_auth_drop

Description UDP Auth: Dropped

Type: number

Format: counter

dst_udp_bytes_rcv

Description UDP Total Bytes Received

Type: number

Format: counter

dst_udp_bytes_sent

Description UDP Total Bytes Forwarded

Type: number

Format: counter

dst_udp_retry_fail

Description UDP Auth: Retry Timeout

Type: number

Format: counter

dst_udp_retry_gap_drop

Description UDP Auth: Retry-Gap Dropped

Type: number

Format: counter

dst_udp_retry_timeout_blacklist

Description UDP Auth: Retry Timeout Blacklisted

Type: number

Format: counter

dst_udp_session_aged

Description UDP Sessions Aged

Type: number

Format: counter

east_west_inbound_drop_byte

Description East West: Inbound Bytes Dropped

Type: number

Format: counter

east_west_inbound_drop_pkt

Description East West: Inbound Packets Dropped

Type: number

Format: counter

east_west_inbound_fwd_byte

Description East West: Inbound Bytes Forwarded

Type: number

Format: counter

east_west_inbound_fwd_pkt

Description East West: Inbound Packets Forwarded

Type: number

Format: counter

east_west_inbound_rcv_byte

Description East West: Inbound Bytes Received

Type: number

Format: counter

east_west_inbound_rcv_pkt

Description East West: Inbound Packets Received

Type: number

Format: counter

east_west_outbound_drop_byte

Description East West: Outbound Bytes Dropped

Type: number

Format: counter

east_west_outbound_drop_pkt

Description East West: Outbound Packets Dropped

Type: number

Format: counter

east_west_outbound_fwd_byte

Description East West: Outbound Bytes Forwarded

Type: number

Format: counter

east_west_outbound_fwd_pkt

Description East West: Outbound Packets Forwarded

Type: number

Format: counter

east_west_outbound_rcv_byte

Description East West: Outbound Bytes Received

Type: number

Format: counter

east_west_outbound_rcv_pkt

Description East West: Outbound Packets Received

Type: number

Format: counter

egress_bytes

Description Outbound: Bytes Received

Type: number

Format: counter

egress_packets

Description Outbound: Packets Received

Type: number

Format: counter

entry_sync_message_received

Description Entry Sync Message Received

Type: number

Format: counter

entry_sync_message_sent

Description Entry Sync Message Sent

Type: number

Format: counter

icmp_fwd_recv

Description ICMP Inbound Packets Received

Type: number

Format: counter

inbound_bytes_drop

Description Inbound: Bytes Dropped

Type: number

Format: counter

inbound_bytes_sent

Description Inbound: Bytes Forwarded

Type: number

Format: counter

ingress_bytes

Description Inbound: Bytes Received

Type: number

Format: counter

ingress_packets

Description Inbound: Packets Received

Type: number

Format: counter

multi_pu_src_hash_pu1

Description internal src hash counter for pu1

Type: number

Format: counter

multi_pu_src_hash_pu2

Description internal src hash counter for pu2

Type: number

Format: counter

outbound_bytes_drop

Description Outbound: Bytes Dropped

Type: number

Format: counter

outbound_bytes_sent

Description Outbound: Bytes Forwarded

Type: number

Format: counter

outbound_drop

Description Outbound: Packets Dropped

Type: number

Format: counter

outbound_pkt_sent

Description Outbound: Packets Forwarded

Type: number

Format: counter

prog_conn_exceed_bl

Description Connection: Violation Exceed Blacklisted

Type: number

Format: counter

prog_conn_exceed_drop

Description Connection: Violation Exceed Dropped

Type: number

Format: counter

prog_conn_rcvd_exceed

Description Connection: Received Exceed

Type: number

Format: counter

prog_conn_rcvd_sent_ratio_exceed

Description Connection: Reveived to Sent Ratio Exceed

Type: number

Format: counter

prog_conn_samples

Description Sample Collected: Connection

Type: number

Format: counter

prog_conn_samples_processed

Description Sample Processed: Connnection

Type: number

Format: counter

prog_conn_sent_exceed

Description Connection: Sent Exceed

Type: number

Format: counter

prog_conn_time_exceed

Description Connection: Time Exceed

Type: number

Format: counter

prog_exceed_bl

Description Req-Resp: Violation Exceed Blacklisted

Type: number

Format: counter

prog_exceed_drop

Description Req-Resp: Violation Exceed Dropped

Type: number

Format: counter

prog_first_req_time_exceed

Description Req-Resp: First Request Time Exceed

Type: number

Format: counter

prog_query_exceed

Description Req-Resp: Client Query Time Exceed

Type: number

Format: counter

prog_req_resp_time_exceed

Description Req-Resp: Request to Response Time Exceed

Type: number

Format: counter

prog_req_samples

Description Sample Collected: Req-Resp

Type: number

Format: counter

prog_req_samples_processed

Description Sample Processed: Req-Resp

Type: number

Format: counter

prog_request_len_exceed

Description Req-Resp: Request Length Exceed

Type: number

Format: counter

prog_resp_pkt_rate_exceed

Description Req-Resp: Response Packet Rate Exceed

Type: number

Format: counter

prog_resp_req_time_exceed

Description Req-Resp: Response to Request Time Exceed

Type: number

Format: counter

prog_response_len_exceed

Description Req-Resp: Response Length Exceed

Type: number

Format: counter

prog_think_exceed

Description Req-Resp: Server Think Time Exceed

Type: number

Format: counter

prog_win_exceed_bl

Description Time Window: Violation Exceed Blacklisted

Type: number

Format: counter

prog_win_exceed_drop

Description Time Window: Violation Exceed Dropped

Type: number

Format: counter

prog_win_rcvd_exceed

Description Time Window: Received Exceed

Type: number

Format: counter

prog_win_rcvd_sent_ratio_exceed

Description Time Window: Received to Sent Exceed

Type: number

Format: counter

prog_win_samples

Description Sample Collected: Time Window

Type: number

Format: counter

prog_win_samples_processed

Description Sample Processed: Time Window

Type: number

Format: counter

prog_win_sent_exceed

Description Time Window: Sent Exceed

Type: number

Format: counter

secondary_dst_entry_conn_limit_exceed

Description Per Addr Limit: Conn Exceeded

Type: number

Format: counter

secondary_dst_entry_conn_rate_exceed

Description Per Addr Rate: Conn Exceeded

Type: number

Format: counter

secondary_dst_entry_frag_pkt_rate_exceed

Description Per Addr Rate: Frag Packet Exceeded

Type: number

Format: counter

secondary_dst_entry_kbit_rate_exceed

Description Per Addr Rate: KiBit Exceeded

Type: number

Format: counter

secondary_dst_entry_pkt_rate_exceed

Description Per Addr Rate: Packet Exceeded

Type: number

Format: counter

secondary_entry_aged

Description Per Addr Entry Aged

Type: number

Format: counter

secondary_entry_hit

Description Per Addr Entry Hit

Type: number

Format: counter

secondary_entry_learn

Description Per Addr Entry Learned

Type: number

Format: counter

secondary_entry_learning_thre_exceed

Description Per Addr Entry Count Overflow

Type: number

Format: counter

secondary_entry_miss

Description Per Addr Entry Missed

Type: number

Format: counter

secondary_port_aged

Description Per Addr Port Aged

Type: number

Format: counter

secondary_port_learn

Description Per Addr Port Learned

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

small_window_rcv

Description Small Window Received

Type: number

Format: counter

source_entry_icmp

Description Source Entry ICMP Count

Type: number

Format: counter

source_entry_other

Description Source Entry OTHER Count

Type: number

Format: counter

source_entry_tcp

Description Source Entry TCP Count

Type: number

Format: counter

source_entry_total

Description Source Entry Total Count

Type: number

Format: counter

source_entry_udp

Description Source Entry UDP Count

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_other_filter_action_blacklist

Description Src OTHER Filter Action Blacklist

Type: number

Format: counter

src_other_filter_action_default_pass

Description Src OTHER Filter Action Default Pass

Type: number

Format: counter

src_other_filter_action_drop

Description Src OTHER Filter Action Drop

Type: number

Format: counter

src_other_filter_action_whitelist

Description Src OTHER Filter Action WL

Type: number

Format: counter

src_tcp_action_on_ack_blacklist

Description Src TCP Auth: ACK Retry Timeout Blacklisted

Type: number

Format: counter

src_tcp_action_on_ack_fail

Description Src TCP Auth: ACK Retry Dropped

Type: number

Format: counter

src_tcp_action_on_ack_gap_drop

Description Src TCP Auth: ACK Retry Retry-Gap Dropped

Type: number

Format: counter

src_tcp_action_on_ack_init

Description Src TCP Auth: ACK Retry Init

Type: number

Format: counter

src_tcp_action_on_ack_reset

Description Src TCP Auth: ACK Retry Timeout Reset

Type: number

Format: counter

src_tcp_action_on_ack_timeout

Description Src TCP Auth: ACK Retry Timeout

Type: number

Format: counter

src_tcp_action_on_syn_blacklist

Description Src TCP Auth: SYN Retry Timeout Blacklisted

Type: number

Format: counter

src_tcp_action_on_syn_fail

Description Src TCP Auth: SYN Retry Dropped

Type: number

Format: counter

src_tcp_action_on_syn_gap_drop

Description Src TCP Auth: SYN Retry-Gap Dropped

Type: number

Format: counter

src_tcp_action_on_syn_init

Description Src TCP Auth: SYN Retry Init

Type: number

Format: counter

src_tcp_action_on_syn_reset

Description Src TCP Auth: SYN Retry Timeout Reset

Type: number

Format: counter

src_tcp_action_on_syn_timeout

Description Src TCP Auth: SYN Retry Timeout

Type: number

Format: counter

src_tcp_conn_prate_excd

Description Src TCP Rate: Conn Pkt Exceeded

Type: number

Format: counter

src_tcp_filter_action_blacklist

Description Src TCP Filter Action Blacklist

Type: number

Format: counter

src_tcp_filter_action_default_pass

Description Src TCP Filter Action Default Pass

Type: number

Format: counter

src_tcp_filter_action_drop

Description Src TCP Filter Action Drop

Type: number

Format: counter

src_tcp_filter_action_whitelist

Description Src TCP Filter Action WL

Type: number

Format: counter

src_tcp_out_of_seq_excd

Description Src TCP Out-Of-Seq Exceeded

Type: number

Format: counter

src_tcp_retransmit_excd

Description Src TCP Retransmit Exceeded

Type: number

Format: counter

src_tcp_rst_cookie_fail

Description Src TCP Auth: RST Cookie Failed

Type: number

Format: counter

src_tcp_small_window_excd

Description Src TCP Small-Window Exceeded

Type: number

Format: counter

src_tcp_syn_auth_fail

Description Src TCP Auth: SYN Auth Failed

Type: number

Format: counter

src_tcp_syn_cookie_fail

Description Src TCP Auth: SYN Cookie Failed

Type: number

Format: counter

src_tcp_syn_cookie_sent

Description Src TCP Auth: SYN Cookie Sent

Type: number

Format: counter

src_tcp_unauth_drop

Description Src TCP Auth: Unauth Dropped

Type: number

Format: counter

src_tcp_wellknown_sport_drop

Description Src TCP SrcPort Wellknown

Type: number

Format: counter

src_tcp_zero_window_excd

Description Src TCP Zero-Window Exceeded

Type: number

Format: counter

src_udp_auth_timeout

Description Src UDP Auth: Retry Timeout

Type: number

Format: counter

src_udp_conn_prate_excd

Description Src UDP Rate: Conn Pkt Exceeded

Type: number

Format: counter

src_udp_filter_action_blacklist

Description Src UDP Filter Action Blacklist

Type: number

Format: counter

src_udp_filter_action_default_pass

Description Src UDP Filter Action Default Pass

Type: number

Format: counter

src_udp_filter_action_drop

Description Src UDP Filter Action Drop

Type: number

Format: counter

src_udp_filter_action_whitelist

Description Src UDP Filter Action WL

Type: number

Format: counter

src_udp_max_payload

Description Src UDP Payload Too Large

Type: number

Format: counter

src_udp_min_payload

Description Src UDP Payload Too Small

Type: number

Format: counter

src_udp_ntp_monlist_req

Description Src UDP NTP Monlist Request

Type: number

Format: counter

src_udp_ntp_monlist_resp

Description Src UDP NTP Monlist Response

Type: number

Format: counter

src_udp_retry_gap_drop

Description Src UDP Auth: Retry-Gap Dropped

Type: number

Format: counter

src_udp_retry_init

Description Src UDP Auth: Retry Init

Type: number

Format: counter

src_udp_retry_pass

Description Src UDP Retry Passed

Type: number

Format: counter

src_udp_wellknown_sport_drop

Description Src UDP SrcPort Wellknown

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_fwd_recv

Description TCP Inbound Packets Received

Type: number

Format: counter

tcp_invalid_syn

Description TCP Invalid SYN Received

Type: number

Format: counter

tcp_invalid_synack

Description TCP Invalid SYNACK Received

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP SYN Retransmit Exceeded Blacklist

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP SYN Retransmit Exceeded Drop

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_cookie_fail

Description TCP Auth: SYN Cookie Failed

Type: number

Format: counter

tcp_syn_rcvd

Description TCP Inbound SYN Received

Type: number

Format: counter

token_auth_current_salt_matched

Description Token Authentication Current Salt Matched

Type: number

Format: counter

token_auth_invalid_packets

Description Token Authentication Invalid Packets

Type: number

Format: counter

token_auth_mismatched_packets

Description Token Authentication Mismatched Packets

Type: number

Format: counter

token_auth_previous_salt_matched

Description Token Authentication Previous Salt Matched

Type: number

Format: counter

token_auth_session_created

Description Token Authentication Session Created

Type: number

Format: counter

token_auth_session_created_fail

Description Token Authentication Session Created Fail

Type: number

Format: counter

udp_fwd_recv

Description UDP Inbound Packets Received

Type: number

Format: counter

victim_ip_aged

Description Victim Identification: IP Entry Aged

Type: number

Format: counter

victim_ip_learned

Description Victim Identification: IP Entry Learned

Type: number

Format: counter

zone_blackhole_inject

Description Dst Blackhole Inject

Type: number

Format: counter

zone_blackhole_withdraw

Description Dst Blackhole Withdraw

Type: number

Format: counter

zone_frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

zone_frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

zone_icmp_bytes_drop

Description ICMP Total Bytes Dropped

Type: number

Format: counter

zone_icmp_drop

Description ICMP Total Packets Dropped

Type: number

Format: counter

zone_icmp_frag_pkt_rate_exceed

Description ICMP Dst IP-Proto Rate: Frag Exceeded

Type: number

Format: counter

zone_icmp_frag_src_rate_drop

Description ICMP Src Rate: Frag Exceeded

Type: number

Format: counter

zone_icmp_kibit_rate_drop

Description ICMP Dst Rate: KiBit Exceeded

Type: number

Format: counter

zone_icmp_pkt_rate_exceed

Description ICMP Dst Rate: Packet Exceeded

Type: number

Format: counter

zone_icmp_pkt_rcvd

Description ICMP Total Packets Received

Type: number

Format: counter

zone_icmp_pkt_sent

Description ICMP Total Packets Forwarded

Type: number

Format: counter

zone_icmp_src_drop

Description ICMP Src Packets Dropped

Type: number

Format: counter

zone_icmp_src_rate_drop

Description ICMP Src Rate: Total Exceeded

Type: number

Format: counter

zone_ip_proto_kbit_rate_exceed

Description IP-Proto Rate: KiBit Exceeded

Type: number

Format: counter

zone_ip_proto_pkt_rate_exceed

Description IP-Proto Rate: Packet Exceeded

Type: number

Format: counter

zone_other_bytes_drop

Description OTHER Total Bytes Dropped

Type: number

Format: counter

zone_other_drop

Description OTHER Total Packets Dropped

Type: number

Format: counter

zone_other_filter_action_blacklist

Description OTHER Filter Action Blacklist

Type: number

Format: counter

zone_other_filter_action_default_pass

Description OTHER Filter Action Default Pass

Type: number

Format: counter

zone_other_filter_action_drop

Description OTHER Filter Action Drop

Type: number

Format: counter

zone_other_filter_action_whitelist

Description OTHER Filter Action WL

Type: number

Format: counter

zone_other_filter_match

Description OTHER Filter Match

Type: number

Format: counter

zone_other_filter_not_match

Description OTHER Filter Not Matched on Pkt

Type: number

Format: counter

zone_other_frag_pkt_rate_exceed

Description OTHER Dst IP-Proto Rate: Frag Exceeded

Type: number

Format: counter

zone_other_frag_src_rate_drop

Description OTHER Src Rate: Frag Exceeded

Type: number

Format: counter

zone_other_kibit_rate_drop

Description OTHER Dst IP-Proto Rate: KiBit Exceeded

Type: number

Format: counter

zone_other_pkt_rate_exceed

Description OTHER Dst IP-Proto Rate: Packet Exceeded

Type: number

Format: counter

zone_other_pkt_rcvd

Description OTHER Total Packets Received

Type: number

Format: counter

zone_other_pkt_sent

Description OTHER Total Packets Forwarded

Type: number

Format: counter

zone_other_src_drop

Description OTHER Src Packets Dropped

Type: number

Format: counter

zone_other_src_rate_drop

Description OTHER Src Rate: Total Exceeded

Type: number

Format: counter

zone_out_no_route

Description Dst IPv4/v6 Out No Route

Type: number

Format: counter

zone_payload_too_big

Description UDP Payload Too Large

Type: number

Format: counter

zone_payload_too_small

Description UDP Payload Too Small

Type: number

Format: counter

zone_pkt_sent

Description Inbound: Packets Forwarded

Type: number

Format: counter

zone_port_bl

Description Dst Port Blacklist Packets Dropped

Type: number

Format: counter

zone_port_conn_limit_exceed

Description Port Limit: Conn Exceeded

Type: number

Format: counter

zone_port_conn_rate_exceed

Description Port Rate: Conn Exceeded

Type: number

Format: counter

zone_port_kbit_rate_exceed

Description Port Rate: KiBit Exceeded

Type: number

Format: counter

zone_port_kbit_rate_exceed_pkt

Description Port Rate: KiBit Pkt Exceeded

Type: number

Format: counter

zone_port_pkt_rate_exceed

Description Port Rate: Packet Exceeded

Type: number

Format: counter

zone_port_undef_drop

Description Dst Port Undefined Dropped

Type: number

Format: counter

zone_port_undef_hit

Description Dst Port undefined Hit

Type: number

Format: counter

zone_src_port_bl

Description Dst SrcPort Blacklist Packets Dropped

Type: number

Format: counter

zone_src_port_conn_limit_exceed

Description SrcPort Limit: Conn Exceeded

Type: number

Format: counter

zone_src_port_conn_rate_exceed

Description SrcPort Rate: Conn Exceeded

Type: number

Format: counter

zone_src_port_kbit_rate_exceed

Description SrcPort Rate: KiBit Exceeded

Type: number

Format: counter

zone_src_port_pkt_rate_exceed

Description SrcPort Rate: Packet Exceeded

Type: number

Format: counter

zone_src_udp_retry_timeout_blacklist

Description Src UDP Auth: Retry Timeout Blacklisted

Type: number

Format: counter

zone_tcp_action_on_ack_blacklist

Description TCP Auth: ACK Retry Timeout Blacklisted

Type: number

Format: counter

zone_tcp_action_on_ack_fail

Description TCP Auth: ACK Retry Dropped

Type: number

Format: counter

zone_tcp_action_on_ack_gap_drop

Description TCP Auth: ACK Retry Retry-Gap Dropped

Type: number

Format: counter

zone_tcp_action_on_ack_init

Description TCP Auth: ACK Retry Init

Type: number

Format: counter

zone_tcp_action_on_ack_pass

Description TCP Auth: ACK Retry Passed

Type: number

Format: counter

zone_tcp_action_on_ack_reset

Description TCP Auth: ACK Retry Timeout Reset

Type: number

Format: counter

zone_tcp_action_on_ack_timeout

Description TCP Auth: ACK Retry Timeout

Type: number

Format: counter

zone_tcp_action_on_syn_blacklist

Description TCP Auth: SYN Retry Timeout Blacklisted

Type: number

Format: counter

zone_tcp_action_on_syn_fail

Description TCP Auth: SYN Retry Dropped

Type: number

Format: counter

zone_tcp_action_on_syn_gap_drop

Description TCP Auth: SYN Retry-Gap Dropped

Type: number

Format: counter

zone_tcp_action_on_syn_init

Description TCP Auth: SYN Retry Init

Type: number

Format: counter

zone_tcp_action_on_syn_pass

Description TCP Auth: SYN Retry Passed

Type: number

Format: counter

zone_tcp_action_on_syn_reset

Description TCP Auth: SYN Retry Timeout Reset

Type: number

Format: counter

zone_tcp_action_on_syn_timeout

Description TCP Auth: SYN Retry Timeout

Type: number

Format: counter

zone_tcp_any_exceed

Description TCP Dst IP-Proto Rate: Total Exceeded

Type: number

Format: counter

zone_tcp_auth

Description TCP Auth: SYN Cookie Sent

Type: number

Format: counter

zone_tcp_auth_pass

Description TCP Auth: SYN Auth Passed

Type: number

Format: counter

zone_tcp_bytes_drop

Description TCP Total Bytes Dropped

Type: number

Format: counter

zone_tcp_conn_limit_exceed

Description TCP Dst IP-Proto Limit: Conn Exceeded

Type: number

Format: counter

zone_tcp_conn_prate_excd

Description TCP Rate: Conn Pkt Exceeded

Type: number

Format: counter

zone_tcp_conn_rate_exceed

Description TCP Dst IP-Proto Rate: Conn Exceeded

Type: number

Format: counter

zone_tcp_drop

Description TCP Total Packets Dropped

Type: number

Format: counter

zone_tcp_filter_action_blacklist

Description TCP Filter Action Blacklist

Type: number

Format: counter

zone_tcp_filter_action_default_pass

Description TCP Filter Action Default Pass

Type: number

Format: counter

zone_tcp_filter_action_drop

Description TCP Filter Action Drop

Type: number

Format: counter

zone_tcp_filter_action_whitelist

Description TCP Filter Action WL

Type: number

Format: counter

zone_tcp_filter_match

Description TCP Filter Match

Type: number

Format: counter

zone_tcp_filter_not_match

Description TCP Filter Not Matched on Pkt

Type: number

Format: counter

zone_tcp_frag_pkt_rate_exceed

Description TCP Dst IP-Proto Rate: Frag Exceeded

Type: number

Format: counter

zone_tcp_frag_src_rate_drop

Description TCP Src Rate: Frag Exceeded

Type: number

Format: counter

zone_tcp_kibit_rate_drop

Description TCP Dst IP-Proto Rate: KiBit Exceeded

Type: number

Format: counter

zone_tcp_out_of_seq_excd

Description TCP Out-Of-Seq Exceeded

Type: number

Format: counter

zone_tcp_pkt_rate_exceed

Description TCP Dst IP-Proto Rate: Packet Exceeded

Type: number

Format: counter

zone_tcp_pkt_rcvd

Description TCP Total Packets Received

Type: number

Format: counter

zone_tcp_pkt_sent

Description TCP Total Packets Forwarded

Type: number

Format: counter

zone_tcp_port_any_exceed

Description TCP Port Rate: Total Exceed

Type: number

Format: counter

zone_tcp_retransmit_excd

Description TCP Retransmit Exceeded

Type: number

Format: counter

zone_tcp_rst_cookie_fail

Description TCP Auth: RST Cookie Failed

Type: number

Format: counter

zone_tcp_session_created

Description TCP Sessions Created

Type: number

Format: counter

zone_tcp_small_window_excd

Description TCP Small-Window Exceeded

Type: number

Format: counter

zone_tcp_src_drop

Description TCP Src Packets Dropped

Type: number

Format: counter

zone_tcp_src_rate_drop

Description TCP Src Rate: Total Exceeded

Type: number

Format: counter

zone_tcp_syn

Description TCP Total SYN Received

Type: number

Format: counter

zone_tcp_syn_drop

Description TCP SYN Packets Dropped

Type: number

Format: counter

zone_tcp_unauth_drop

Description TCP Auth: Unauth Dropped

Type: number

Format: counter

zone_tcp_wellknown_sport_drop

Description TCP SrcPort Wellknown

Type: number

Format: counter

zone_tcp_zero_window_excd

Description TCP Zero-Window Exceeded

Type: number

Format: counter

zone_udp_any_exceed

Description UDP Dst IP-Proto Rate: Total Exceeded

Type: number

Format: counter

zone_udp_bytes_drop

Description UDP Total Bytes Dropped

Type: number

Format: counter

zone_udp_conn_limit_exceed

Description UDP Dst IP-Proto Limit: Conn Exceeded

Type: number

Format: counter

zone_udp_conn_prate_excd

Description UDP Rate: Conn Pkt Exceeded

Type: number

Format: counter

zone_udp_conn_rate_exceed

Description UDP Dst IP-Proto Rate: Conn Exceeded

Type: number

Format: counter

zone_udp_drop

Description UDP Total Packets Dropped

Type: number

Format: counter

zone_udp_filter_action_blacklist

Description UDP Filter Action Blacklist

Type: number

Format: counter

zone_udp_filter_action_default_pass

Description UDP Filter Action Default Pass

Type: number

Format: counter

zone_udp_filter_action_drop

Description UDP Filter Action Drop

Type: number

Format: counter

zone_udp_filter_action_whitelist

Description UDP Filter Action WL

Type: number

Format: counter

zone_udp_filter_match

Description UDP Filter Match

Type: number

Format: counter

zone_udp_filter_not_match

Description UDP Filter Not Matched on Pkt

Type: number

Format: counter

zone_udp_frag_pkt_rate_exceed

Description UDP Dst IP-Proto Rate: Frag Exceeded

Type: number

Format: counter

zone_udp_frag_src_rate_drop

Description UDP Src Rate: Frag Exceeded

Type: number

Format: counter

zone_udp_kibit_rate_drop

Description UDP Dst IP-Proto Rate: KiBit Exceeded

Type: number

Format: counter

zone_udp_ntp_monlist_req

Description UDP NTP Monlist Request

Type: number

Format: counter

zone_udp_ntp_monlist_resp

Description UDP NTP Monlist Response

Type: number

Format: counter

zone_udp_pkt_rate_exceed

Description UDP Dst IP-Proto Rate: Packet Exceeded

Type: number

Format: counter

zone_udp_pkt_rcvd

Description UDP Total Packets Received

Type: number

Format: counter

zone_udp_pkt_sent

Description UDP Total Packets Forwarded

Type: number

Format: counter

zone_udp_port_any_exceed

Description UDP Port Rate: Total Exceed

Type: number

Format: counter

zone_udp_retry_init

Description UDP Auth: Retry Init

Type: number

Format: counter

zone_udp_retry_pass

Description UDP Auth: Retry Passed

Type: number

Format: counter

zone_udp_session_created

Description UDP Sessions Created

Type: number

Format: counter

zone_udp_src_drop

Description UDP Src Packets Dropped

Type: number

Format: counter

zone_udp_src_rate_drop

Description UDP Src Rate: Total Exceeded

Type: number

Format: counter

zone_udp_wellknown_sport_drop

Description UDP SrcPort Wellknown

Type: number

Format: counter

2.33.326 ddos dst zone topk-destinations

DDos dst zone top destination IPs

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations
Element Attributes	topk-destinations_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations/oper
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations

topk-destinations attributes

topk-destinations attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.327 ddos dst zone topk-destinations oper

Operational Status for the object topk-destinations

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations/oper
Element Attributes	topk-destinations_attributes
Partition Visibility	None
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations/oper

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations/oper

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations/oper

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/topk-destinations/oper

topk-destinations attributes

topk-destinations attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-list

Type: List

finished

Description

Type: number

indicators

Type: List

next-indicator

Description

Type: number

top-k-key

Description

Type: string

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address-str

Description

Type: string

indicators

Type: List

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

max-peak

Description

Type: string

psd-wdw-cnt

Description

Type: number

rate

Description

Type: string

oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.328 ddos dst zone web-gui

Configure web settings for onbox GUI

web-gui Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	web-gui
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/web-gui
Element Attributes	web-gui_attributes
Partition Visibility	shared
Schema	`web-gui schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui

web-gui attributes

```
POST /axapi/v3/ddos/dst/zone/a/web-gui
Payload:
{
    "web-gui": {
        "status": "newly",
        "learning": {
            "duration": "1minute"
        }
    }
}
```

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui

web-gui attributes

```
GET /axapi/v3/ddos/dst/zone/a/web-gui
Reponse:
{
    "web-gui": {
        "status": "newly",
        "activated-after-learning": 0,
        "sensitivity": "3",
        "uuid": "c9505052-0876-11f0-88ef-714ea04fa382",
        "learning": {
            "duration": "1minute",
            "uuid": "c950517e-0876-11f0-88ef-714ea04fa382",
            "a10-url": "/axapi/v3/ddos/dst/zone/a/web-gui/learning"
        },
        "a10-url": "/axapi/v3/ddos/dst/zone/a/web-gui"
```

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```
    }
}
```

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui

web-gui attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui

web-gui attributes

```
PUT /axapi/v3/ddos/dst/zone/a/web-gui
Payload:
{
    "web-gui": {
        "status": "learning",
        "learning": {
            "starting-time": "abcdef"
        }
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui

web-gui attributes

```
DELETE /axapi/v3/ddos/dst/zone/a/web-gui
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

web-gui attributes

activated-after-learning

Description Activate it after learning

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

create-time

Description Configure create time

Type: string

Maximum Length: 13 characters

Maximum Length: 1 characters

learning

Description: learning is a **JSON Block**. Please see below for *learning*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/learning*

modify-time

Description Configure modify time

Type: string

Maximum Length: 13 characters

Maximum Length: 1 characters

protection

Description: protection is a **JSON Block**. Please see below for *protection*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection*

sensitivity

Description '5': Low; '3': Medium; '1.5': High;

Type: string

Supported Values: 5, 3, 1.5

Default: 3

status

Description 'newly': newly; 'learning': learning; 'learned': learned; 'activated': activated;

Type: string

Supported Values: newly, learning, learned, activated

Default: newly

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

protection

Specification	Value
Type	*object*

ip-proto

Description: ip-proto is a **JSON Block**. Please see below for *protection_ip-proto*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto*

port

Description: port is a **JSON Block**. Please see below for *protection_port*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range/{port-range-start}+{port-range-end}+{protocol}*

protection_port-range-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

protection_port

Specification	Value
Type	*object*

zone-service-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service/{port-num}+{protocol}*

zone-service-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other/{port-other}+{protocol}*

protection_port_zone-service-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

protection_port_zone-service-other-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

protection_ip-proto

Specification	Value
Type	*object*

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name/{protocol}*

protection_ip-proto_proto-name-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6;

Type: string

Supported Values: icmp-v4, icmp-v6

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

learning

Specification	Value
Type	*object*

duration

Description '1minute': 1 minute; '6hour': 6 hours; '12hour': 12 hours; '24hour': 24 hours; '7day': 7 days;

Type: string

Supported Values: 1minute, 6hour, 12hour, 24hour, 7day

Default: 6hour

starting-time

Description Configure learning starting time

Type: string

Maximum Length: 13 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.329 ddos dst zone web-gui learning

Configure TPS Wizard Learning

learning Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	learning
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/learning
Element Attributes	learning_attributes
Partition Visibility	shared
Schema	`learning schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/learning

learning attributes

```
POST /axapi/v3/ddos/dst/zone/a/web-gui/learning
Payload:
{
    "learning": {
        "duration": "1minute"
    }
}
```

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/learning

learning attributes

```
GET /axapi/v3/ddos/dst/zone/a/web-gui/learning
Reponse:
{
    "learning": {
        "duration": "1minute",
        "uuid": "f1f4e8d8-0876-11f0-88ef-714ea04fa382",
        "a10-url": "/axapi/v3/ddos/dst/zone/a/web-gui/learning"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/learning

learning attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/learning

learning attributes

```
PUT /axapi/v3/ddos/dst/zone/a/web-gui/learning
Payload:
{
    "learning": {
        "duration": "6hour"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/learning

learning attributes

```
DELETE /axapi/v3/ddos/dst/zone/a/web-gui/learning
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

learning attributes

duration

Description '1minute': 1 minute; '6hour': 6 hours; '12hour': 12 hours; '24hour': 24 hours; '7day': 7 days;

Type: string

Supported Values: 1minute, 6hour, 12hour, 24hour, 7day

Default: 6hour

starting-time

Description Configure learning starting time

Type: string

Maximum Length: 13 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.330 ddos dst zone web-gui protection

Configure TPS Wizard Protection

protection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	protection
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection
Element Attributes	protection_attributes
Partition Visibility	shared
Schema	`protection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection

protection attributes

```
POST /axapi/v3/ddos/dst/zone/a/web-gui/protection
Payload:
{
    "protection": {
        "port": {
            "zone-service-list": [
                {
                    "protocol": "dns-tcp",
                    "port-num": 3,
                    "pbe": "a"
                }
            ]
        }
    }
}
```

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection

protection attributes

```
GET /axapi/v3/ddos/dst/zone/a/web-gui/protection
Reponse:
{
    "protection": {
        "port": {
            "zone-service-list": [
                {
                    "port-num": 3,
                    "protocol": "dns-tcp",
                    "pbe": "a",
                    "uuid": "041537e8-0877-11f0-88ef-714ea04fa382",
                    "a10-url": "/axapi/v3/ddos/dst/zone/a/web-gui/protection/port/zone-
↪service/3+dns-tcp"
                }
            ],
            "a10-url": "/axapi/v3/ddos/dst/zone/a/web-gui/protection/port"
        },
        "a10-url": "/axapi/v3/ddos/dst/zone/a/web-gui/protection"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection

protection attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection

protection attributes

```
PUT /axapi/v3/ddos/dst/zone/a/web-gui/protection
Payload:
{
    "protection": {
        "port": {
            "zone-service-other-list": [
                {
                    "port-other": "other",
                    "protocol": "tcp"
                }
            ]
        }
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection

protection attributes

```
DELETE /axapi/v3/ddos/dst/zone/a/web-gui/protection
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

protection attributes

ip-proto

Description: ip-proto is a **JSON Block**. Please see below for *ip-proto*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto*

port

Description: port is a **JSON Block**. Please see below for *port*

Type: Object

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range/{port-range-start}+{port-range-end}+{protocol}*

port-range-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port

Specification	Value
Type	*object*

zone-service-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service/{port-num}+{protocol}*

zone-service-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other/{port-other}+{protocol}*

port_zone-service-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port_zone-service-other-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto

Specification	Value
Type	*object*

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name/{protocol}*

ip-proto_proto-name-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6;

Type: string

Supported Values: icmp-v4, icmp-v6

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.331 ddos dst zone web-gui protection ip-proto

DDOS IP protocol configuration

ip-proto Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	ip-proto
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto
Element Attributes	ip-proto_attributes
Partition Visibility	shared
Schema	`ip-proto schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto

ip-proto_attributes

ip-proto attributes

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name/{protocol}*

proto-name-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6;

Type: string

Supported Values: icmp-v4, icmp-v6

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.332 ddos dst zone web-gui protection ip-proto proto-name

DDOS IP protocol configuration

proto-name Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*proto-name-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name
Element Name	proto-name
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name/{protocol}
Element Attributes	proto-name_attributes
Partition Visibility	shared
Schema	`proto-name schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name

proto-name attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name

proto-name attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name/{protocol}

proto-name attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name

proto-name-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name/{protocol}

proto-name attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name/{protocol}

proto-name attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name

proto-name-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/ip-proto/proto-name/{protocol}

proto-name attributes

proto-name-list

proto-name-list is **JSON List** of *proto-name attributes*

proto-name-list : [

{ *proto-name attributes* },

{ *proto-name attributes* },

...

]

proto-name attributes

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6;

Type: string

Supported Values: icmp-v4, icmp-v6

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.333 ddos dst zone web-gui protection port

DDOS IP protocol configuration

port Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	port
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port
Element Attributes	port_attributes
Partition Visibility	shared
Schema	`port schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port

port_attributes

port attributes

zone-service-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service/{port-num}+{protocol}*

zone-service-other-list

Type: List

Reference Object: */axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other/{port-other}+{protocol}*

zone-service-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-service-other-list

Specification	Value
Type	*list*
Block object keys	

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.334 ddos dst zone web-gui protection port-range

DDOS Port-Range & Protocol configuration

port-range Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-range-start, port-range-end, protocol*
Collection Name	*port-range-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range
Element Name	port-range
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range/{port-range-start}+{port-range-end}+{protocol}
Element Attributes	port-range_attributes
Partition Visibility	shared
Schema	`port-range schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range

port-range attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range

port-range attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range

port-range-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range

port-range-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

port-range-list

port-range-list is **JSON List** of *port-range attributes*

port-range-list : [

{ *port-range attributes* },

{ *port-range attributes* },

...

]

port-range attributes

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-range-end

Description Port-Range End Port Number

Type: number

Range: 1-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.335 ddos dst zone web-gui protection port zone-service

DDOS Port & Protocol configuration

zone-service Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num, protocol*
Collection Name	*zone-service-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service
Element Name	zone-service
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service/{port-num}+{protocol}
Element Attributes	zone-service_attributes
Partition Visibility	shared
Schema	`zone-service schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service

zone-service attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service

zone-service attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service/{port-num}+{protocol}

zone-service attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service

zone-service-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service/{port-num}+{protocol}

zone-service attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service/{port-num}+{protocol}

zone-service attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service

zone-service-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service/{port-num}+{protocol}

zone-service attributes

zone-service-list

zone-service-list is **JSON List** of *zone-service attributes*

```
zone-service-list : [
        { zone-service attributes },
        { zone-service attributes },
        ...
    ]
```

zone-service attributes

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.336 ddos dst zone web-gui protection port zone-service-other

DDOS Port & Protocol configuration

zone-service-other Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-other, protocol*
Collection Name	*zone-service-other-list*
Collection URI	/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other
Element Name	zone-service-other
Element URI	/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other/{port-other}+{protocol}
Element Attributes	zone-service-other_attributes
Partition Visibility	shared
Schema	`zone-service-other schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other

zone-service-other attributes

Create List

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other

zone-service-other attributes

Get Object

GET

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other/{port-other}+{protocol}

zone-service-other attributes

Get List

GET

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other

zone-service-other-list

Modify Object

POST

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other/{port-other}+{protocol}

zone-service-other attributes

Replace Object

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other/{port-other}+{protocol}

zone-service-other attributes

Replace List

PUT

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other

zone-service-other-list

Delete Object

DELETE

/axapi/v3/ddos/dst/zone/{zone-name}/web-gui/protection/port/zone-service-other/{port-other}+{protocol}

zone-service-other attributes

zone-service-other-list

zone-service-other-list is **JSON List** of *zone-service-other attributes*

zone-service-other-list : [

{ *zone-service-other attributes* },

{ *zone-service-other attributes* },

...

]

zone-service-other attributes

pbe

Description Peak Bandwidth Expected

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-other

Description 'other': other;

Type: string

Supported Values: other

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.337 ddos dynamic-class-list

Configure class-list for automatic population by BGP

dynamic-class-list Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dynamic-class-list
Element URI	/axapi/v3/ddos/dynamic-class-list
Element Attributes	dynamic-class-list_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/dynamic-class-list/oper
Schema	`dynamic-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dynamic-class-list

dynamic-class-list attributes

Get Object

GET

/axapi/v3/ddos/dynamic-class-list

dynamic-class-list attributes

Modify Object

POST

/axapi/v3/ddos/dynamic-class-list

dynamic-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dynamic-class-list

dynamic-class-list attributes

Delete Object

DELETE

/axapi/v3/ddos/dynamic-class-list

dynamic-class-list attributes

dynamic-class-list attributes

class-list-name

Description Specify name of the class list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.338 ddos dynamic-class-list oper

Operational Status for the object dynamic-class-list

dynamic-class-list Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dynamic-class-list
Element URI	/axapi/v3/ddos/dynamic-class-list/oper
Element Attributes	dynamic-class-list_attributes
Partition Visibility	None
Schema	`dynamic-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/dynamic-class-list/oper

dynamic-class-list attributes

Get Object

GET

/axapi/v3/ddos/dynamic-class-list/oper

dynamic-class-list attributes

Modify Object

POST

/axapi/v3/ddos/dynamic-class-list/oper

dynamic-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/dynamic-class-list/oper

dynamic-class-list attributes

Delete Object

DELETE

/axapi/v3/ddos/dynamic-class-list/oper

dynamic-class-list attributes

dynamic-class-list attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

ac-entries

Type: List

ac-total-entries

Description

Type: number

dns-entries

Type: List

dns-total-entries

Description

Type: number

file-or-string

Description

Type: string

Supported Values: file, config

geo-location-entries

Type: List

geo-location-total-entries

Description

Type: number

ipv4-entries

Type: List

ipv4-total-single-ip

Description

Type: number

ipv4-total-subnet

Description

Type: number

ipv6-entries

Type: List

ipv6-total-single-ip

Description

Type: number

ipv6-total-subnet

Description

Type: number

string-entries

Type: List

string-total-entries

Description

Type: number

type

Description

Type: string

Supported Values: ac, dns, ipv4, ipv6, string, string-case-insensitive, [ipv4], [ipv6], [dns], [dns, ipv4], [dns, ipv6]

user-tag

Description

Type: string

oper_ac-entries

Specification	Value
Type	*list*
Block object keys	

ac-hit-count

Description

Type: number

ac-match-string

Description

Type: string

ac-match-type

Description

Type: string

Supported Values: contains, ends-with, starts-with, equals

ac-match-value

Description

Type: string

oper_dns-entries

Specification	Value
Type	*list*
Block object keys	

dns-glid

Description

Type: number

dns-hit-count

Description

Type: number

dns-lid

Description

Type: number

dns-match-string

Description

Type: string

dns-match-type

Description

Type: string

Supported Values: contains, ends-with, starts-with

oper_ipv4-entries

Specification	Value
Type	*list*
Block object keys	

ipv4-addr

Description

Type: string

ipv4-age

Description

Type: number

ipv4-glid

Description

Type: number

ipv4-hit-count

Description

Type: number

ipv4-lid

Description

Type: number

ipv4-lsn-lid

Description

Type: number

ipv4-lsn-radius-profile

Description

Type: number

oper_ipv6-entries

Specification	Value
Type	*list*
Block object keys	

ipv6-age

Description

Type: number

ipv6-glid

Description

Type: number

ipv6-hit-count

Description

Type: number

ipv6-lid

Description

Type: number

ipv6-lsn-lid

Description

Type: number

ipv6-lsn-radius-profile

Description

Type: number

ipv6addr

Description

Type: string

oper_string-entries

Specification	Value
Type	*list*
Block object keys	

string-glid

Description

Type: number

string-hit-count

Description

Type: number

string-key

Description

Type: string

string-lid

Description

Type: number

string-value

Description

Type: string

oper_geo-location-entries

Specification	Value
Type	*list*
Block object keys	

geo-location

Description

Type: string

2.33.339 ddos east-west-protection

DDOS East-West Protection

east-west-protection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	east-west-protection
Element URI	/axapi/v3/ddos/east-west-protection
Element Attributes	east-west-protection_attributes
Partition Visibility	shared
Schema	`east-west-protection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/east-west-protection

east-west-protection attributes

Get Object

GET

/axapi/v3/ddos/east-west-protection

east-west-protection attributes

Modify Object

POST

/axapi/v3/ddos/east-west-protection

east-west-protection attributes

Replace Object

PUT

/axapi/v3/ddos/east-west-protection

east-west-protection attributes

Delete Object

DELETE

/axapi/v3/ddos/east-west-protection

east-west-protection attributes

east-west-protection attributes

deployment-mode

Description 'L2-mode': Enable East-West Protection in Layer 2 mode.; 'L2-with-virtual-wire': Enable East-West Protection in Layer 2 mode with virtual-wire pairs.; 'L3-mode': Enable East-West Protection in Layer 3 mode.; 'disable': Disable East-West Protection.;

Type: string

Supported Values: L2-mode, L2-with-virtual-wire, L3-mode, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.340 ddos event-filter

Configure DDOS debug event filter

event-filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*filter-name*
Collection Name	*event-filter-list*
Collection URI	/axapi/v3/ddos/event-filter
Element Name	event-filter
Element URI	/axapi/v3/ddos/event-filter/{filter-name}
Element Attributes	event-filter_attributes
Partition Visibility	shared
Schema	`event-filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/event-filter

event-filter attributes

Create List

POST

/axapi/v3/ddos/event-filter

event-filter attributes

Get Object

GET

/axapi/v3/ddos/event-filter/{filter-name}

event-filter attributes

Get List

GET

/axapi/v3/ddos/event-filter

event-filter-list

Modify Object

POST

/axapi/v3/ddos/event-filter/{filter-name}

event-filter attributes

Replace Object

PUT

/axapi/v3/ddos/event-filter/{filter-name}

event-filter attributes

Replace List

PUT

/axapi/v3/ddos/event-filter

event-filter-list

Delete Object

DELETE

/axapi/v3/ddos/event-filter/{filter-name}

event-filter attributes

event-filter-list

event-filter-list is **JSON List** of *event-filter attributes*

event-filter-list : [

{ *event-filter attributes* },

{ *event-filter attributes* },

...

]

event-filter attributes

black-list

Description: black-list is a **JSON Block**. Please see below for *black-list*

Type: Object

drop

Description: drop is a **JSON Block**. Please see below for *drop*

Type: Object

filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/event-filter/{filter-name}/l4-type/{protocol}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

white-list

Description: white-list is a **JSON Block**. Please see below for *white-list*

Type: Object

black-list

Specification	Value
Type	*object*

black-list-dst

Description Dst entry/port is black-listed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

black-list-src

Description Src entry/port is black-listed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop

Specification	Value
Type	*object*

drop-black-list

Description Packet is dropped because of black-list

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-dst

Description Packet is dropped because of dst

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-src

Description Packet is dropped because of src

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

white-list

Specification	Value
Type	*object*

white-list-dst

Description Dst entry/port is white-listed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

white-list-src

Description Src entry/port is white-listed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

l4-type-list

Specification	Value
Type	*list*
Block object keys	

out-of-seq

Description TCP out-of-seq pkts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

protocol

Description 'tcp': tcp; 'udp': udp;

Type: string

Supported Values: tcp, udp

retrans-syn-cfg

Description: retrans-syn-cfg is a **JSON Block**. Please see below for *l4-type-list_retrans-syn-cfg*

Type: Object

tcp-auth

Description: tcp-auth is a **JSON Block**. Please see below for *l4-type-list_tcp-auth*

Type: Object

udp-auth

Description: udp-auth is a **JSON Block**. Please see below for *l4-type-list_udp-auth*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zero-window

Description TCP zero window pkts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

l4-type-list_tcp-auth

Specification	Value
Type	*object*

tcp-auth-fail

Description Packet that fails syn-auth/action-on-ack

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-auth-init

Description Packet that inits syn-auth/action-on-ack

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-auth-pass

Description Packet that passes syn-auth/action-on-ack

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

l4-type-list_udp-auth

Specification	Value
Type	*object*

udp-auth-init

Description Packet that inits spoof-detect

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-auth-pass

Description Packet that passes spoof-detect

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

l4-type-list_retrans-syn-cfg

Specification	Value
Type	*object*

retrans-syn

Description TCP SYN retransmission

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

retrans-syn-exceed

Description TCP SYN retransmission exceed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.341 ddos event-filter l4-type

DDOS L4 type event

l4-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-list*
Collection URI	/axapi/v3/ddos/event-filter/{filter-name}/l4-type
Element Name	l4-type
Element URI	/axapi/v3/ddos/event-filter/{filter-name}/l4-type/{protocol}
Element Attributes	l4-type_attributes
Partition Visibility	shared
Schema	`l4-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/event-filter/{filter-name}/l4-type

l4-type attributes

Create List

POST

/axapi/v3/ddos/event-filter/{filter-name}/l4-type

l4-type attributes

Get Object

GET

/axapi/v3/ddos/event-filter/{filter-name}/l4-type/{protocol}

l4-type attributes

Get List

GET

/axapi/v3/ddos/event-filter/{filter-name}/l4-type

l4-type-list

Modify Object

POST

/axapi/v3/ddos/event-filter/{filter-name}/l4-type/{protocol}

l4-type attributes

Replace Object

PUT

/axapi/v3/ddos/event-filter/{filter-name}/l4-type/{protocol}

l4-type attributes

Replace List

PUT

/axapi/v3/ddos/event-filter/{filter-name}/l4-type

l4-type-list

Delete Object

DELETE

/axapi/v3/ddos/event-filter/{filter-name}/l4-type/{protocol}

l4-type attributes

l4-type-list

l4-type-list is **JSON List** of *l4-type attributes*

```
l4-type-list : [
        { l4-type attributes },
        { l4-type attributes },
        ...
    ]
```

l4-type attributes

out-of-seq

Description TCP out-of-seq pkts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

protocol

Description 'tcp': tcp; 'udp': udp;

Type: string

Supported Values: tcp, udp

retrans-syn-cfg

Description: retrans-syn-cfg is a **JSON Block**. Please see below for *retrans-syn-cfg*

Type: Object

tcp-auth

Description: tcp-auth is a **JSON Block**. Please see below for *tcp-auth*

Type: Object

udp-auth

Description: udp-auth is a **JSON Block**. Please see below for *udp-auth*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zero-window

Description TCP zero window pkts

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-auth

Specification	Value
Type	*object*

tcp-auth-fail

Description Packet that fails syn-auth/action-on-ack

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-auth-init

Description Packet that inits syn-auth/action-on-ack

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-auth-pass

Description Packet that passes syn-auth/action-on-ack

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-auth

Specification	Value
Type	*object*

udp-auth-init

Description Packet that inits spoof-detect

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-auth-pass

Description Packet that passes spoof-detect

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

retrans-syn-cfg

Specification	Value
Type	*object*

retrans-syn

Description TCP SYN retransmission

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

retrans-syn-exceed

Description TCP SYN retransmission exceed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.342 ddos geo-location

DDOS geo-location Information

geo-location Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	geo-location
Element URI	/axapi/v3/ddos/geo-location
Element Attributes	geo-location_attributes
Partition Visibility	shared
Schema	`geo-location schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/geo-location

geo-location_attributes

geo-location attributes

db

Description: db is a **JSON Block**. Please see below for *db*

Type: Object

Reference Object: */axapi/v3/ddos/geo-location/db*

file

Description: file is a **JSON Block**. Please see below for *file*

Type: Object

Reference Object: */axapi/v3/ddos/geo-location/file*

db

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

file

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.343 ddos geo-location db oper

Operational Status for the object db

db Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	db
Element URI	/axapi/v3/ddos/geo-location/db/oper
Element Attributes	db_attributes
Partition Visibility	None
Schema	`db schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/geo-location/db/oper

db attributes

Get Object

GET

/axapi/v3/ddos/geo-location/db/oper

db attributes

Modify Object

POST

/axapi/v3/ddos/geo-location/db/oper

db attributes

Replace Object

PUT

/axapi/v3/ddos/geo-location/db/oper

db attributes

Delete Object

DELETE

/axapi/v3/ddos/geo-location/db/oper

db attributes

db attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

filter

Description

Type: string

Supported Values: directory

geo-location-list

Type: List

ip

Description

Type: string

Format: ipv4-address

ipv6

Description

Type: string

Format: ipv6-address

total-geo-location

Description

Type: number

oper_geo-location-list

Specification	Value
Type	*list*
Block object keys	

from

Description

Type: string

name

Description

Type: string

subcnt

Description

Type: number

tomask

Description

Type: string

type

Description

Type: string

2.33.344 ddos geo-location file oper

Operational Status for the object file

file Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	file
Element URI	/axapi/v3/ddos/geo-location/file/oper
Element Attributes	file_attributes
Partition Visibility	None
Schema	`file schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/geo-location/file/oper

file attributes

Get Object

GET

/axapi/v3/ddos/geo-location/file/oper

file attributes

Modify Object

POST

/axapi/v3/ddos/geo-location/file/oper

file attributes

Replace Object

PUT

/axapi/v3/ddos/geo-location/file/oper

file attributes

Delete Object

DELETE

/axapi/v3/ddos/geo-location/file/oper

file attributes

file attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

error-list

Type: List

error-warning

Description

Type: number

filename

Description

Type: string

lines

Description

Type: number

success

Description

Type: number

type

Description

Type: string

Supported Values: B, I

oper_file-list_error-list

Specification	Value
Type	*list*
Block object keys	

error-information

Description

Type: string

error-line

Description

Type: number

2.33.345 ddos http-port stats

Statistics for the object http-port

http-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*http-port-list*
Collection URI	/axapi/v3/ddos/http-port
Element Name	http-port
Element URI	/axapi/v3/ddos/http-port/stats
Element Attributes	http-port_attributes
Partition Visibility	None
Schema	`http-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/http-port

http-port attributes

Create List

POST

/axapi/v3/ddos/http-port

http-port attributes

Get Object

GET

/axapi/v3/ddos/http-port/stats

http-port attributes

Get List

GET

/axapi/v3/ddos/http-port

http-port-list

Modify Object

POST

/axapi/v3/ddos/http-port/stats

http-port attributes

Replace Object

PUT

/axapi/v3/ddos/http-port/stats

http-port attributes

Replace List

PUT

/axapi/v3/ddos/http-port

http-port-list

Delete Object

DELETE

/axapi/v3/ddos/http-port/stats

http-port attributes

http-port-list

http-port-list is **JSON List** of *http-port attributes*

```
http-port-list : [
        { http-port attributes },
        { http-port attributes },
        ...
    ]
```

http-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ack_auth_fail

Description ACK Retry Dropped

Type: number

Format: counter

ack_retry_blacklist

Description ACK Retry Timeout Blacklisted

Type: number

Format: counter

ack_retry_gap_drop

Description ACK Retry Retry-Gap Dropped

Type: number

Format: counter

ack_retry_init

Description ACK Retry Init

Type: number

Format: counter

ack_retry_pass

Description ACK Retry Passed

Type: number

Format: counter

ack_retry_reset

Description ACK Retry Timeout Reset

Type: number

Format: counter

ack_retry_rto_fail

Description ACK Retry RTO Dropped

Type: number

Format: counter

ack_retry_rto_pass

Description ACK Retry RTO Passed

Type: number

Format: counter

ack_retry_rto_progress

Description ACK Retry RTO Progress

Type: number

Format: counter

ack_retry_timeout

Description ACK Retry Timeout

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

challenge_failed

Description Challenge Failed

Type: number

Format: counter

chunk_bad

Description Bad Payload Chunk

Type: number

Format: counter

chunk_sz_1k

Description Payload Chunk Size Less Than or Equal to 1K

Type: number

Format: counter

chunk_sz_2k

Description Payload Chunk Size Less Than or Equal to 2K

Type: number

Format: counter

chunk_sz_4k

Description Payload Chunk Size Less Than or Equal to 4K

Type: number

Format: counter

chunk_sz_512

Description Payload Chunk Size Less Than or Equal to 512

Type: number

Format: counter

chunk_sz_gt_4k

Description Payload Chunk Size Larger Than 4K

Type: number

Format: counter

client_rst

Description Client TCP RST Received

Type: number

Format: counter

conn_close

Description Connections Closed

Type: number

Format: counter

conn_close_half_open

Description Half Open Connections Closed

Type: number

Format: counter

conn_close_w_fin

Description FIN Connections Closed

Type: number

Format: counter

conn_close_w_idle

Description Idle Connections Closed

Type: number

Format: counter

conn_close_w_rst

Description RST Connections Closed

Type: number

Format: counter

conn_create_from_ack

Description Connections Created From ACK

Type: number

Format: counter

conn_create_from_syn

Description Connections Created From SYN

Type: number

Format: counter

conn_create_from_synack

Description Connections Created From SYNACK

Type: number

Format: counter

conn_ofo_rate_excd

Description TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

conn_prate_excd

Description TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

conn_rexmit_rate_excd

Description TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

conn_zwindow_rate_excd

Description TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

content_length_too_long

Description Malform Content Length Too Long

Type: number

Format: counter

create_conn_non_syn_dropped

Description Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

dst_post_rate_exceed

Description Dst Post Rate Exceeded

Type: number

Format: counter

dst_req_rate_exceed

Description Dst Request Rate Exceeded

Type: number

Format: counter

dst_resp_rate_exceed

Description Dst Response Rate Exceeded

Type: number

Format: counter

er_condition

Description Error Condition

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

fail_alloc

Description Alloc Failed

Type: number

Format: counter

fail_alloc_hdr

Description Alloc Header Failed

Type: number

Format: counter

fail_get_line

Description Get Line Failed

Type: number

Format: counter

filter10_drop

Description Filter10 Match Dropped

Type: number

Format: counter

filter10_match

Description Filter10 Match

Type: number

Format: counter

filter1_drop

Description Filter1 Match Dropped

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_drop

Description Filter2 Match Dropped

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_drop

Description Filter3 Match Dropped

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_drop

Description Filter4 Match Dropped

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_drop

Description Filter5 Match Dropped

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter6_drop

Description Filter6 Match Dropped

Type: number

Format: counter

filter6_match

Description Filter6 Match

Type: number

Format: counter

filter7_drop

Description Filter7 Match Dropped

Type: number

Format: counter

filter7_match

Description Filter7 Match

Type: number

Format: counter

filter8_drop

Description Filter8 Match Dropped

Type: number

Format: counter

filter8_match

Description Filter8 Match

Type: number

Format: counter

filter9_drop

Description Filter9 Match Dropped

Type: number

Format: counter

filter9_match

Description Filter9 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action Whitelist

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_match

Description Filter Total Match

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

header_name_too_long

Description Header Name Too Long

Type: number

Format: counter

header_processing_incomplete

Description Header Process Incomplete

Type: number

Format: counter

header_processing_time_0

Description Header Process Time Less Than 1s

Type: number

Format: counter

header_processing_time_1

Description Header Process Time Less Than 10s

Type: number

Format: counter

header_processing_time_2

Description Header Process Time Less Than 30S

Type: number

Format: counter

header_processing_time_3

Description Header Process Time Larger Than or Equal to 30s

Type: number

Format: counter

http_auth_drop

Description HTTP Auth Dropped

Type: number

Format: counter

http_auth_resp

Description HTTP Auth Responded

Type: number

Format: counter

hybrid_auth_auth_no_match

Description SYN Auth Hybrid Auth No Match Drop

Type: number

Format: counter

hybrid_auth_auth_no_match_ack_rcv

Description SYN Auth Hybrid Auth No Match Drop: ACK Received

Type: number

Format: counter

hybrid_auth_auth_no_match_rst_rcv

Description SYN Auth Hybrid Auth No Match Drop: RST Received

Type: number

Format: counter

hybrid_auth_entry_aged_out

Description SYN Auth Hybrid Entry Aged Out

Type: number

Format: counter

hybrid_auth_filter_full

Description SYN Auth Hybrid Filter Full

Type: number

Format: counter

hybrid_auth_invalid_fail

Description SYN Auth Hybrid Invalid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_invalid_pass

Description SYN Auth Hybrid Invalid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_invalid_sa_sent

Description SYN Auth Hybrid Invalid SYNACK Sent

Type: number

Format: counter

hybrid_auth_lookup_fail

Description SYN Auth Hybrid Lookup Fail

Type: number

Format: counter

hybrid_auth_method_change

Description SYN Auth Hybrid Method Change

Type: number

Format: counter

hybrid_auth_unknown_fail

Description SYN Auth Hybrid Unknown Auth Fail

Type: number

Format: counter

hybrid_auth_unknown_pass

Description SYN Auth Hybrid Unknown Auth Pass

Type: number

Format: counter

hybrid_auth_valid_fail

Description SYN Auth Hybrid Valid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_valid_pass

Description SYN Auth Hybrid Valid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_valid_sa_sent

Description SYN Auth Hybrid Valid SYNACK Sent

Type: number

Format: counter

idle_timeout

Description Idle Timeout

Type: number

Format: counter

invalid_hdr_name

Description HTTP Header Name Invalid

Type: number

Format: counter

invalid_hdr_val

Description HTTP Header Value Invalid

Type: number

Format: counter

invalid_header

Description HTTP Header Invalid

Type: number

Format: counter

js_challenge_failed

Description Challenge Javascript Failed

Type: number

Format: counter

js_challenge_sent

Description Challenge Javascript Sent

Type: number

Format: counter

less_than_mss_exceed

Description Min Payload Size Fail Exceeded

Type: number

Format: counter

line_too_long

Description Line Too Long

Type: number

Format: counter

negative_req_remain

Description Negative Request Remain

Type: number

Format: counter

negative_resp_remain

Description Negative Response Remain

Type: number

Format: counter

new_syn

Description TCP SYN

Type: number

Format: counter

ofo_queue_sz_exceed

Description Out-Of-Order Queue Exceeded

Type: number

Format: counter

ofo_timer_expired

Description Out-Of-Order Timeout

Type: number

Format: counter

out_of_seq_excd

Description Out-Of-Seq Exceeded

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

parse_bad_chunk

Description Malform Bad Chunk

Type: number

Format: counter

parse_header_name_too_long

Description Malform Header Name Too Long

Type: number

Format: counter

parse_line_too_long

Description Malform Line Too Long

Type: number

Format: counter

parse_req_line_invalid_method

Description Malform Request Line Invalid Method

Type: number

Format: counter

parse_req_line_too_long

Description Malform Request Line Too Long

Type: number

Format: counter

parse_req_line_too_small

Description Malform Request Line Too Small

Type: number

Format: counter

parse_too_many_headers

Description Malform Too Many Headers

Type: number

Format: counter

parsereq_fail

Description Parse Request Failed

Type: number

Format: counter

partial_header

Description Partial Header

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

pkts_connect_passthru

Description Connect Passthru Packets

Type: number

Format: counter

pkts_ofo

Description Out-Of-Order Packets

Type: number

Format: counter

pkts_retrans

Description TCP Retransmit

Type: number

Format: counter

pkts_retrans_fin

Description TCP Retransmit FIN

Type: number

Format: counter

pkts_retrans_push

Description TCP Retransmit PSH

Type: number

Format: counter

pkts_retrans_rst

Description TCP Retransmit RST

Type: number

Format: counter

policy_drop

Description Policy Dropped

Type: number

Format: counter

policy_violation

Description Policy Violation

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_syn_rate_exceed

Description TCP SYN Rate Exceeded

Type: number

Format: counter

port_synack_rate_exceed

Description TCP SYNACK Rate Exceeded

Type: number

Format: counter

processed

Description Packets Processed

Type: number

Format: counter

prog_conn_exceed_bl

Description Connection: Violation Exceed Blacklisted

Type: number

Format: counter

prog_conn_exceed_drop

Description Connection: Violation Exceed Dropped

Type: number

Format: counter

prog_conn_exceed_reset

Description Connection: Violation Exceed Reset

Type: number

Format: counter

prog_conn_rcvd_exceed

Description Connection: Received Exceed

Type: number

Format: counter

prog_conn_rcvd_sent_ratio_exceed

Description Connection: Reveived to Sent Ratio Exceed

Type: number

Format: counter

prog_conn_samples

Description Sample Collected: Connection

Type: number

Format: counter

prog_conn_samples_processed

Description Sample Processed: Connnection

Type: number

Format: counter

prog_conn_sent_exceed

Description Connection: Sent Exceed

Type: number

Format: counter

prog_conn_time_exceed

Description Connection: Time Exceed

Type: number

Format: counter

prog_exceed_bl

Description Req-Resp: Violation Exceed Blacklisted

Type: number

Format: counter

prog_exceed_drop

Description Req-Resp: Violation Exceed Dropped

Type: number

Format: counter

prog_exceed_reset

Description Req-Resp: Violation Exceed Reset

Type: number

Format: counter

prog_first_req_time_exceed

Description Req-Resp: First Request Time Exceed

Type: number

Format: counter

prog_query_exceed

Description Req-Resp: Client Query Time Exceed

Type: number

Format: counter

prog_req_resp_time_exceed

Description Req-Resp: Request to Response Time Exceed

Type: number

Format: counter

prog_req_samples

Description Sample Collected: Res-Resp

Type: number

Format: counter

prog_req_samples_processed

Description Sample Processed: Req-Resp

Type: number

Format: counter

prog_request_len_exceed

Description Req-Resp: Request Length Exceed

Type: number

Format: counter

prog_resp_pkt_rate_exceed

Description Req-Resp: Response Packet Rate Exceed

Type: number

Format: counter

prog_resp_req_time_exceed

Description Req-Resp: Response to Request Time Exceed

Type: number

Format: counter

prog_response_len_exceed

Description Req-Resp: Response Length Exceed

Type: number

Format: counter

prog_think_exceed

Description Req-Resp: Server Think Time Exceed

Type: number

Format: counter

prog_win_exceed_bl

Description Time Window: Violation Exceed Blacklisted

Type: number

Format: counter

prog_win_exceed_drop

Description Time Window: Violation Exceed Dropped

Type: number

Format: counter

prog_win_exceed_reset

Description Time Window: Violation Exceed Reset

Type: number

Format: counter

prog_win_rcvd_exceed

Description Time Window: Received Exceed

Type: number

Format: counter

prog_win_rcvd_sent_ratio_exceed

Description Time Window: Received to Sent Exceed

Type: number

Format: counter

prog_win_samples

Description Sample Collected: Time Window

Type: number

Format: counter

prog_win_samples_processed

Description Sample Processed: Time Window

Type: number

Format: counter

prog_win_sent_exceed

Description Time Window: Sent Exceed

Type: number

Format: counter

referer_filter_blacklist

Description Referer Filter Blacklisted

Type: number

Format: counter

referer_filter_match

Description Referer Filter Match

Type: number

Format: counter

req

Description Request Total

Type: number

Format: counter

req_connect

Description Request Method CONNECT

Type: number

Format: counter

req_content_len

Description Request Content Length Received

Type: number

Format: counter

req_delete

Description Request Method DELETE

Type: number

Format: counter

req_get

Description Request Method GET

Type: number

Format: counter

req_head

Description Request Method HEAD

Type: number

Format: counter

req_http10

Description Request HTTP 1.0

Type: number

Format: counter

req_http11

Description Request HTTP 1.1

Type: number

Format: counter

req_ofo

Description Out-Of-Order Request

Type: number

Format: counter

req_options

Description Request Method OPTIONS

Type: number

Format: counter

req_post

Description Request Method POST

Type: number

Format: counter

req_put

Description Request Method PUT

Type: number

Format: counter

req_retran

Description Request Retransmit

Type: number

Format: counter

req_sz_16k

Description Request Payload Size Less Than or Equal to 16K

Type: number

Format: counter

req_sz_1k

Description Request Payload Size Less Than or Equal to 1K

Type: number

Format: counter

req_sz_256k

Description Request Payload Size Less Than or Equal to 256K

Type: number

Format: counter

req_sz_2k

Description Request Payload Size Less Than or Equal to 2K

Type: number

Format: counter

req_sz_32k

Description Request Payload Size Less Than or Equal to 32K

Type: number

Format: counter

req_sz_4k

Description Request Payload Size Less Than or Equal to 4K

Type: number

Format: counter

req_sz_64k

Description Request Payload Size Less Than or Equal to 64K

Type: number

Format: counter

req_sz_8k

Description Request Payload Size Less Than or Equal to 8K

Type: number

Format: counter

req_sz_gt_256k

Description Request Payload Size Larger Than 256K

Type: number

Format: counter

req_trace

Description Request Method TRACE

Type: number

Format: counter

req_unknown

Description Request Method UNKNOWN

Type: number

Format: counter

resp_code_1xx

Description HTTP Status Code 1XX

Type: number

Format: counter

resp_code_2xx

Description HTTP Status Code 2XX

Type: number

Format: counter

resp_code_3xx

Description HTTP Status Code 3XX

Type: number

Format: counter

resp_code_4xx

Description HTTP Status Code 4XX

Type: number

Format: counter

resp_code_5xx

Description HTTP Status Code 5XX

Type: number

Format: counter

resp_code_other

Description HTTP Status Code OTHER

Type: number

Format: counter

resp_mib_chunk_bad

Description Bad HTTP Response Chunk

Type: number

Format: counter

retransmit_excd

Description Retransmit Exceeded

Type: number

Format: counter

rsp_chunk

Description Response Chunk

Type: number

Format: counter

rst_cookie_fail

Description RST Cookie Failed

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

slow_post

Description Slow Post

Type: number

Format: counter

small_window_excd

Description Small-Window Exceeded

Type: number

Format: counter

small_window_rcv

Description Small-Window Receive

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

src_ack_auth_fail

Description Src ACK Retry Dropped

Type: number

Format: counter

src_ack_retry_blacklist

Description Src ACK Retry Timeout Blacklisted

Type: number

Format: counter

src_ack_retry_gap_drop

Description Src ACK Retry Retry-Gap Dropped

Type: number

Format: counter

src_ack_retry_init

Description Src ACK Retry Init

Type: number

Format: counter

src_ack_retry_reset

Description Src ACK Retry Timeout Reset

Type: number

Format: counter

src_ack_retry_rto_fail

Description Src ACK Retry RTO Dropped

Type: number

Format: counter

src_ack_retry_rto_pass

Description Src ACK Retry RTO Passed

Type: number

Format: counter

src_ack_retry_rto_progress

Description Src ACK Retry RTO Progress

Type: number

Format: counter

src_ack_retry_timeout

Description Src ACK Retry Timeout

Type: number

Format: counter

src_auth_drop

Description Src TCP Auth Dropped

Type: number

Format: counter

src_auth_drop_ack

Description Src TCP Auth Dropped: ACK

Type: number

Format: counter

src_auth_drop_ack_fail_auth

Description Src TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

src_auth_drop_ack_pass_auth

Description Src TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

src_auth_drop_ack_xmit

Description Src TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

src_auth_drop_rst

Description Src TCP Auth Dropped: RST

Type: number

Format: counter

src_auth_drop_rst_fail_auth

Description Src TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

src_auth_drop_rst_pass_auth

Description Src TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

src_auth_drop_rst_xmit

Description Src TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

src_auth_drop_syn

Description Src TCP Auth Dropped: SYN

Type: number

Format: counter

src_challenge_js_fail

Description Src Challenge Javascript Failed

Type: number

Format: counter

src_challenge_ud_fail

Description Src Challenge URL Redirect Failed

Type: number

Format: counter

src_conn_ofo_rate_excd

Description Src TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_conn_rexmit_rate_excd

Description Src TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

src_conn_zwindow_rate_excd

Description Src TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

src_create_conn_non_syn_dropped

Description Src Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

src_dos_policy_violation

Description Src Policy Violation

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_header_filter10_drop

Description Src Filter10 Match Dropped

Type: number

Format: counter

src_header_filter10_match

Description Src Filter10 Match

Type: number

Format: counter

src_header_filter1_drop

Description Src Filter1 Match Dropped

Type: number

Format: counter

src_header_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_header_filter2_drop

Description Src Filter2 Match Dropped

Type: number

Format: counter

src_header_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_header_filter3_drop

Description Src Filter3 Match Dropped

Type: number

Format: counter

src_header_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_header_filter4_drop

Description Src Filter4 Match Dropped

Type: number

Format: counter

src_header_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_header_filter5_drop

Description Src Filter5 Match Dropped

Type: number

Format: counter

src_header_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_header_filter6_drop

Description Src Filter6 Match Dropped

Type: number

Format: counter

src_header_filter6_match

Description Src Filter6 Match

Type: number

Format: counter

src_header_filter7_drop

Description Src Filter7 Match Dropped

Type: number

Format: counter

src_header_filter7_match

Description Src Filter7 Match

Type: number

Format: counter

src_header_filter8_drop

Description Src Filter8 Match Dropped

Type: number

Format: counter

src_header_filter8_match

Description Src Filter8 Match

Type: number

Format: counter

src_header_filter9_drop

Description Src Filter9 Match Dropped

Type: number

Format: counter

src_header_filter9_match

Description Src Filter9 Match

Type: number

Format: counter

src_header_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_header_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_header_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_header_filter_action_whitelist

Description Src Filter Action Whitelist

Type: number

Format: counter

src_header_filter_match

Description Src Filter Total Match

Type: number

Format: counter

src_header_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_header_filter_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_http_auth_drop

Description Src HTTP Auth Dropped

Type: number

Format: counter

src_js_challenge_sent

Description Src Challenge Javascript Sent

Type: number

Format: counter

src_out_of_seq_excd

Description Src Out-Of-Seq Exceeded

Type: number

Format: counter

src_policy_drop

Description Src Policy Dropped

Type: number

Format: counter

src_post_rate_exceed

Description Src Post Rate Exceeded

Type: number

Format: counter

src_req_rate_exceed

Description Src Request Rate Exceeded

Type: number

Format: counter

src_retransmit_excd

Description Src Retransmit Exceeded

Type: number

Format: counter

src_rst_cookie_fail

Description Src RST Cookie Failed

Type: number

Format: counter

src_small_window_excd

Description Src Small-Window Exceeded

Type: number

Format: counter

src_syn_auth_fail

Description Src SYN Auth Failed

Type: number

Format: counter

src_syn_cookie_fail

Description Src SYN Cookie Failed

Type: number

Format: counter

src_syn_cookie_sent

Description Src SYN Cookie Sent

Type: number

Format: counter

src_syn_rate_exceed

Description Src TCP SYN Rate Exceeded

Type: number

Format: counter

src_syn_retry_blacklist

Description Src SYN Retry Timeout Blacklisted

Type: number

Format: counter

src_syn_retry_failed

Description Src SYN Retry Dropped

Type: number

Format: counter

src_syn_retry_gap_drop

Description Src SYN Retry-Gap Dropped

Type: number

Format: counter

src_syn_retry_init

Description Src SYN Retry Init

Type: number

Format: counter

src_syn_retry_reset

Description Src SYN Retry Timeout Reset

Type: number

Format: counter

src_syn_retry_rto_fail

Description Src SYN Retry RTO Dropped

Type: number

Format: counter

src_syn_retry_rto_pass

Description Src SYN Retry RTO Passed

Type: number

Format: counter

src_syn_retry_rto_progress

Description Src SYN Retry RTO Progress

Type: number

Format: counter

src_syn_retry_timeout

Description Src SYN Retry Timeout

Type: number

Format: counter

src_tcp_auth_rst

Description Src TCP Auth Reset

Type: number

Format: counter

src_ud_challenge_sent

Description Src Challenge URL Redirect Sent

Type: number

Format: counter

src_unauth_drop

Description Src TCP Unauth Dropped

Type: number

Format: counter

src_well_known_port

Description Src TCP SrcPort Wellknown

Type: number

Format: counter

src_zero_window_excd

Description Src Zero-Window Exceeded

Type: number

Format: counter

syn_auth_fail

Description SYN Auth Failed

Type: number

Format: counter

syn_auth_pass

Description SYN Auth Passed

Type: number

Format: counter

syn_auth_rst_ack_drop

Description SYN Auth RST-ACK Dropped

Type: number

Format: counter

syn_cookie_fail

Description SYN Cookie Failed

Type: number

Format: counter

syn_cookie_sent

Description SYN Cookie Sent

Type: number

Format: counter

syn_drop

Description SYN Dropped

Type: number

Format: counter

syn_retry_blacklist

Description SYN Retry Timeout Blacklisted

Type: number

Format: counter

syn_retry_failed

Description SYN Retry Dropped

Type: number

Format: counter

syn_retry_gap_drop

Description SYN Retry-Gap Dropped

Type: number

Format: counter

syn_retry_init

Description SYN Retry Init

Type: number

Format: counter

syn_retry_pass

Description SYN Retry Passed

Type: number

Format: counter

syn_retry_reset

Description SYN Retry Timeout Reset

Type: number

Format: counter

syn_retry_rto_fail

Description SYN Retry RTO Dropped

Type: number

Format: counter

syn_retry_rto_pass

Description SYN Retry RTO Passed

Type: number

Format: counter

syn_retry_rto_progress

Description SYN Retry RTO Progress

Type: number

Format: counter

syn_retry_timeout

Description SYN Retry Timeout

Type: number

Format: counter

syn_tfo_rcv

Description SYN TFO Received

Type: number

Format: counter

synack_multiple_attempts_per_ip_detected

Description SYNACK Multiple Attempts Per IP Detected

Type: number

Format: counter

synack_reset_sent

Description SYNACK Reset Sent

Type: number

Format: counter

tcp_ack_data_drop

Description TCP ACK with Data Dropped

Type: number

Format: counter

tcp_ack_data_fwd

Description TCP ACK with Data Forward

Type: number

Format: counter

tcp_ack_data_rcvd

Description TCP ACK with Data Received

Type: number

Format: counter

tcp_ack_drop

Description TCP ACK Dropped

Type: number

Format: counter

tcp_ack_fwd

Description TCP ACK Forward

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_auth_drop

Description TCP Auth Dropped

Type: number

Format: counter

tcp_auth_drop_ack

Description TCP Auth Dropped: ACK

Type: number

Format: counter

tcp_auth_drop_ack_fail_auth

Description TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

tcp_auth_drop_ack_pass_auth

Description TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

tcp_auth_drop_ack_xmit

Description TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

tcp_auth_drop_rst

Description TCP Auth Dropped: RST

Type: number

Format: counter

tcp_auth_drop_rst_fail_auth

Description TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

tcp_auth_drop_rst_pass_auth

Description TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

tcp_auth_drop_rst_xmit

Description TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

tcp_auth_drop_syn

Description TCP Auth Dropped: SYN

Type: number

Format: counter

tcp_auth_resp

Description TCP Auth Responded

Type: number

Format: counter

tcp_auth_rst

Description TCP Auth Reset

Type: number

Format: counter

tcp_cwr_drop

Description TCP CWR Dropped

Type: number

Format: counter

tcp_cwr_fwd

Description TCP CWR Forward

Type: number

Format: counter

tcp_cwr_rcvd

Description TCP CWR Received

Type: number

Format: counter

tcp_ece_drop

Description TCP ECE Dropped

Type: number

Format: counter

tcp_ece_fwd

Description TCP ECE Forward

Type: number

Format: counter

tcp_ece_rcvd

Description TCP ECE Received

Type: number

Format: counter

tcp_empty_ack_drop

Description TCP Empty ACK Dropped

Type: number

Format: counter

tcp_empty_ack_fwd

Description TCP Empty ACK Forward

Type: number

Format: counter

tcp_empty_ack_rcvd

Description TCP Empty ACK Received

Type: number

Format: counter

tcp_filter1_match

Description Filter1 Match

Type: number

Format: counter

tcp_filter2_match

Description Filter2 Match

Type: number

Format: counter

tcp_filter3_match

Description Filter3 Match

Type: number

Format: counter

tcp_filter4_match

Description Filter4 Match

Type: number

Format: counter

tcp_filter5_match

Description Filter5 Match

Type: number

Format: counter

tcp_filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

tcp_filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

tcp_filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

tcp_filter_action_whitelist

Description Filter Action WL

Type: number

Format: counter

tcp_filter_none_match

Description Filter No Match

Type: number

Format: counter

tcp_filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

tcp_fin_ack_drop

Description TCP FIN ACK Dropped

Type: number

Format: counter

tcp_fin_ack_fwd

Description TCP FIN ACK Forward

Type: number

Format: counter

tcp_fin_ack_rcvd

Description TCP FIN ACK Received

Type: number

Format: counter

tcp_fin_drop

Description TCP FIN Dropped

Type: number

Format: counter

tcp_fin_fwd

Description TCP FIN Forward

Type: number

Format: counter

tcp_fin_psh_ack_drop

Description TCP FIN PSH ACK Drop

Type: number

Format: counter

tcp_fin_psh_ack_fwd

Description TCP FIN PSH ACK Forward

Type: number

Format: counter

tcp_fin_psh_ack_rcvd

Description TCP FIN PSH ACK Received

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_psh_ack_drop

Description TCP PSH ACK Dropped

Type: number

Format: counter

tcp_psh_ack_fwd

Description TCP PSH ACK Forward

Type: number

Format: counter

tcp_psh_ack_rcvd

Description TCP PSH ACK Received

Type: number

Format: counter

tcp_psh_drop

Description TCP PSH Dropped

Type: number

Format: counter

tcp_psh_fwd

Description TCP PSH Forward

Type: number

Format: counter

tcp_psh_rcvd

Description TCP PSH Received

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP SYN Retransmit Exceeded Blacklist

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP SYN Retransmit Exceeded Drop

Type: number

Format: counter

tcp_rst_ack_drop

Description TCP RST ACK Dropped

Type: number

Format: counter

tcp_rst_ack_fwd

Description TCP RST ACK Forward

Type: number

Format: counter

tcp_rst_ack_rcvd

Description TCP RST ACK Received

Type: number

Format: counter

tcp_rst_drop

Description TCP RST Dropped

Type: number

Format: counter

tcp_rst_fwd

Description TCP RST Forward

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_syn_ack_drop

Description TCP SYN ACK Dropped

Type: number

Format: counter

tcp_syn_ack_fwd

Description TCP SYN ACK Forward

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_fwd

Description SYN Forward

Type: number

Format: counter

tcp_syn_rcvd

Description TCP Inbound SYN Received

Type: number

Format: counter

tcp_urg_drop

Description TCP URG Dropped

Type: number

Format: counter

tcp_urg_fwd

Description TCP URG Forward

Type: number

Format: counter

tcp_urg_rcvd

Description TCP URG Received

Type: number

Format: counter

too_many_headers

Description HTTP Header Too Many

Type: number

Format: counter

ud_challenge_failed

Description Challenge URL Redirect Failed

Type: number

Format: counter

ud_challenge_sent

Description Challenge URL Redirect Sent

Type: number

Format: counter

unauth_drop

Description TCP Unauth Dropped

Type: number

Format: counter

uri_filter_match

Description URI Filter Match

Type: number

Format: counter

use_hdr_src_ip

Description Use IP In Header As Src

Type: number

Format: counter

user_agent_filter_blacklist

Description Agent Filter Blacklisted

Type: number

Format: counter

user_agent_filter_match

Description Agent Filter Match

Type: number

Format: counter

wellknown_sport_drop

Description TCP SrcPort Wellknown

Type: number

Format: counter

window_small

Description Window Size Small

Type: number

Format: counter

window_small_drop

Description Window Size Small Dropped

Type: number

Format: counter

zero_window_excd

Description Zero-Window Exceeded

Type: number

Format: counter

2.33.346 ddos http-zone-port stats

Statistics for the object http-zone-port

http-zone-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*http-zone-port-list*
Collection URI	/axapi/v3/ddos/http-zone-port
Element Name	http-zone-port
Element URI	/axapi/v3/ddos/http-zone-port/stats
Element Attributes	http-zone-port_attributes
Partition Visibility	None
Schema	`http-zone-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/http-zone-port

http-zone-port attributes

Create List

POST

/axapi/v3/ddos/http-zone-port

http-zone-port attributes

Get Object

GET

/axapi/v3/ddos/http-zone-port/stats

http-zone-port attributes

Get List

GET

/axapi/v3/ddos/http-zone-port

http-zone-port-list

Modify Object

POST

/axapi/v3/ddos/http-zone-port/stats

http-zone-port attributes

Replace Object

PUT

/axapi/v3/ddos/http-zone-port/stats

http-zone-port attributes

Replace List

PUT

/axapi/v3/ddos/http-zone-port

http-zone-port-list

Delete Object

DELETE

/axapi/v3/ddos/http-zone-port/stats

http-zone-port attributes

http-zone-port-list

http-zone-port-list is **JSON List** of *http-zone-port attributes*

```
http-zone-port-list : [
        { http-zone-port attributes },
        { http-zone-port attributes },
        ...
    ]
```

http-zone-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ack_auth_fail

Description ACK Retry Dropped

Type: number

Format: counter

ack_retry_blacklist

Description ACK Retry Timeout Blacklisted

Type: number

Format: counter

ack_retry_gap_drop

Description ACK Retry Retry-Gap Dropped

Type: number

Format: counter

ack_retry_init

Description ACK Retry Init

Type: number

Format: counter

ack_retry_pass

Description ACK Retry Passed

Type: number

Format: counter

ack_retry_reset

Description ACK Retry Timeout Reset

Type: number

Format: counter

ack_retry_rto_fail

Description ACK Retry RTO Dropped

Type: number

Format: counter

ack_retry_rto_pass

Description ACK Retry RTO Passed

Type: number

Format: counter

ack_retry_rto_progress

Description ACK Retry RTO Progress

Type: number

Format: counter

ack_retry_timeout

Description ACK Retry Timeout

Type: number

Format: counter

all_src_session_reset

Description Session Reset for All Src Upon Level Escalation

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

challenge_failed

Description Challenge Failed

Type: number

Format: counter

chunk_bad

Description Bad Payload Chunk

Type: number

Format: counter

chunk_sz_1k

Description Payload Chunk Size Less Than or Equal to 1K

Type: number

Format: counter

chunk_sz_2k

Description Payload Chunk Size Less Than or Equal to 2K

Type: number

Format: counter

chunk_sz_4k

Description Payload Chunk Size Less Than or Equal to 4K

Type: number

Format: counter

chunk_sz_512

Description Payload Chunk Size Less Than or Equal to 512

Type: number

Format: counter

chunk_sz_gt_4k

Description Payload Chunk Size Larger Than 4K

Type: number

Format: counter

clear_session_upon_deescalation

Description Clear Session Upon De-escalation to Level 0

Type: number

Format: counter

client_rst

Description Client TCP RST Received

Type: number

Format: counter

conn_close

Description Connections Closed

Type: number

Format: counter

conn_close_half_open

Description Half Open Connections Closed

Type: number

Format: counter

conn_close_w_fin

Description FIN Connections Closed

Type: number

Format: counter

conn_close_w_idle

Description Idle Connections Closed

Type: number

Format: counter

conn_close_w_rst

Description RST Connections Closed

Type: number

Format: counter

conn_create_from_ack

Description Connections Created From ACK

Type: number

Format: counter

conn_create_from_syn

Description Connections Created From SYN

Type: number

Format: counter

conn_create_from_synack

Description Connections Created From SYNACK

Type: number

Format: counter

conn_ofo_rate_excd

Description TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

conn_prate_excd

Description TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

conn_rexmit_rate_excd

Description TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

conn_zwindow_rate_excd

Description TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

content_length_too_long

Description Malform Content Length Too Long

Type: number

Format: counter

create_conn_non_syn_dropped

Description Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

current_es_level

Description Current Escalation Level

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

dst_hw_drop_inserted

Description Dst Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_removed

Description Dst Hardware Drop Rules Removed

Type: number

Format: counter

dst_post_rate_exceed

Description Dst Post Rate Exceeded

Type: number

Format: counter

dst_req_rate_exceed

Description Dst Request Rate Exceeded

Type: number

Format: counter

dst_resp_rate_exceed

Description Dst Response Rate Exceeded

Type: number

Format: counter

dst_tcp_conn_half_open_timeout

Description Half Open Connections Timeout

Type: number

Format: counter

dst_tcp_conn_half_open_timeout_rst_sent

Description Half Open Connections Timeout RST Sent

Type: number

Format: counter

dst_tcp_sess_aged_rst_sent

Description Sessions Aged Out RST Sent

Type: number

Format: counter

dynamic_count_warn

Description dynamic-entry-count warning send

Type: number

Format: counter

er_condition

Description Error Condition

Type: number

Format: counter

ew_inbound_port_byte_drop

Description East-West Inbound Bytes Dropped

Type: number

Format: counter

ew_inbound_port_byte_rcv

Description East-West Inbound Bytes Recevied

Type: number

Format: counter

ew_inbound_port_byte_sent

Description East-West Inbound Bytes Forwarded

Type: number

Format: counter

ew_inbound_port_drop

Description East-West Inbound Packets Dropped

Type: number

Format: counter

ew_inbound_port_rcv

Description East-West Inbound Packets Received

Type: number

Format: counter

ew_inbound_port_sent

Description East-West Inbound Packets Forwarded

Type: number

Format: counter

ew_outbound_port_byte_drop

Description East-West Outbound Bytes Forwarded

Type: number

Format: counter

ew_outbound_port_byte_rcv

Description East-West Outbound Bytes Recevied

Type: number

Format: counter

ew_outbound_port_byte_sent

Description East-West Outbound Bytes Dropped

Type: number

Format: counter

ew_outbound_port_drop

Description East-West Outbound Packets Dropped

Type: number

Format: counter

ew_outbound_port_rcv

Description East-West Outbound Packets Received

Type: number

Format: counter

ew_outbound_port_sent

Description East-West Outbound Packets Forwarded

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

fail_alloc

Description Alloc Failed

Type: number

Format: counter

fail_alloc_hdr

Description Alloc Header Failed

Type: number

Format: counter

fail_get_line

Description Get Line Failed

Type: number

Format: counter

filter10_drop

Description Filter10 Match Dropped

Type: number

Format: counter

filter10_match

Description Filter10 Match

Type: number

Format: counter

filter1_drop

Description Filter1 Match Dropped

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_drop

Description Filter2 Match Dropped

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_drop

Description Filter3 Match Dropped

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_drop

Description Filter4 Match Dropped

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_drop

Description Filter5 Match Dropped

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter6_drop

Description Filter6 Match Dropped

Type: number

Format: counter

filter6_match

Description Filter6 Match

Type: number

Format: counter

filter7_drop

Description Filter7 Match Dropped

Type: number

Format: counter

filter7_match

Description Filter7 Match

Type: number

Format: counter

filter8_drop

Description Filter8 Match Dropped

Type: number

Format: counter

filter8_match

Description Filter8 Match

Type: number

Format: counter

filter9_drop

Description Filter9 Match Dropped

Type: number

Format: counter

filter9_match

Description Filter9 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action Whitelist

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_match

Description Filter Total Match

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

header_name_too_long

Description Header Name Too Long

Type: number

Format: counter

header_processing_incomplete

Description Header Process Incomplete

Type: number

Format: counter

header_processing_time_0

Description Header Process Time Less Than 1s

Type: number

Format: counter

header_processing_time_1

Description Header Process Time Less Than 10s

Type: number

Format: counter

header_processing_time_2

Description Header Process Time Less Than 30S

Type: number

Format: counter

header_processing_time_3

Description Header Process Time Larger or Equal to 30s

Type: number

Format: counter

http_auth_drop

Description HTTP Auth Dropped

Type: number

Format: counter

http_auth_resp

Description HTTP Auth Responded

Type: number

Format: counter

hybrid_auth_auth_no_match

Description SYN Auth Hybrid Auth No Match Drop

Type: number

Format: counter

hybrid_auth_auth_no_match_ack_rcv

Description SYN Auth Hybrid Auth No Match Drop: ACK Received

Type: number

Format: counter

hybrid_auth_auth_no_match_rst_rcv

Description SYN Auth Hybrid Auth No Match Drop: RST Received

Type: number

Format: counter

hybrid_auth_entry_aged_out

Description SYN Auth Hybrid Entry Aged Out

Type: number

Format: counter

hybrid_auth_filter_full

Description SYN Auth Hybrid Filter Full

Type: number

Format: counter

hybrid_auth_invalid_fail

Description SYN Auth Hybrid Invalid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_invalid_pass

Description SYN Auth Hybrid Invalid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_invalid_sa_sent

Description SYN Auth Hybrid Invalid SYNACK Sent

Type: number

Format: counter

hybrid_auth_lookup_fail

Description SYN Auth Hybrid Lookup Fail

Type: number

Format: counter

hybrid_auth_method_change

Description SYN Auth Hybrid Method Change

Type: number

Format: counter

hybrid_auth_unknown_fail

Description SYN Auth Hybrid Unknown Auth Fail

Type: number

Format: counter

hybrid_auth_unknown_pass

Description SYN Auth Hybrid Unknown Auth Pass

Type: number

Format: counter

hybrid_auth_valid_fail

Description SYN Auth Hybrid Valid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_valid_pass

Description SYN Auth Hybrid Valid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_valid_sa_sent

Description SYN Auth Hybrid Valid SYNACK Sent

Type: number

Format: counter

idle_timeout

Description Idle Timeout

Type: number

Format: counter

invalid_hdr_name

Description HTTP Header Name Invalid

Type: number

Format: counter

invalid_hdr_val

Description HTTP Header Value Invalid

Type: number

Format: counter

invalid_header

Description HTTP Header Invalid

Type: number

Format: counter

ip_filtering_bl

Description IP Filtering Policy: Blacklisted

Type: number

Format: counter

ip_filtering_drop

Description IP Filtering Policy: Dropped

Type: number

Format: counter

js_challenge_failed

Description Challenge Javascript Failed

Type: number

Format: counter

js_challenge_sent

Description Challenge Javascript Sent

Type: number

Format: counter

less_than_mss_exceed

Description Min Payload Size Fail Exceeded

Type: number

Format: counter

line_too_long

Description Line Too Long

Type: number

Format: counter

negative_req_remain

Description Negative Request Remain

Type: number

Format: counter

negative_resp_remain

Description Negative Response Remain

Type: number

Format: counter

new_syn

Description TCP SYN

Type: number

Format: counter

no_policy_class_list_match

Description No Policy Class-list Match

Type: number

Format: counter

no_route_drop

Description No Route Dropped

Type: number

Format: counter

ofo_queue_sz_exceed

Description Out-Of-Order Queue Exceeded

Type: number

Format: counter

ofo_timer_expired

Description Out-Of-Order Timeout

Type: number

Format: counter

out_of_seq_excd

Description Out-Of-Seq Exceeded

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

parse_bad_chunk

Description Malform Bad Chunk

Type: number

Format: counter

parse_header_name_too_long

Description Malform Header Name Too Long

Type: number

Format: counter

parse_line_too_long

Description Malform Line Too Long

Type: number

Format: counter

parse_req_line_invalid_method

Description Malform Request Line Invalid Method

Type: number

Format: counter

parse_req_line_too_long

Description Malform Request Line Too Long

Type: number

Format: counter

parse_req_line_too_small

Description Malform Request Line Too Small

Type: number

Format: counter

parse_too_many_headers

Description Malform Too Many Headers

Type: number

Format: counter

parsereq_fail

Description Parse Request Failed

Type: number

Format: counter

partial_header

Description Partial Header

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

pkts_connect_passthru

Description Connect Passthru Packets

Type: number

Format: counter

pkts_ofo

Description Out-Of-Order Packets

Type: number

Format: counter

pkts_retrans

Description TCP Retransmit

Type: number

Format: counter

pkts_retrans_fin

Description TCP Retransmit FIN

Type: number

Format: counter

pkts_retrans_push

Description TCP Retransmit PSH

Type: number

Format: counter

pkts_retrans_rst

Description TCP Retransmit RST

Type: number

Format: counter

policy_drop

Description Policy Dropped

Type: number

Format: counter

policy_violation

Description Policy Violation

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_src_escalation

Description Src Escalation

Type: number

Format: counter

port_syn_rate_exceed

Description TCP SYN Rate Exceeded

Type: number

Format: counter

port_synack_rate_exceed

Description TCP SYNACK Rate Exceeded

Type: number

Format: counter

processed

Description Packets Processed

Type: number

Format: counter

prog_conn_exceed_bl

Description Connection: Violation Exceed Blacklisted

Type: number

Format: counter

prog_conn_exceed_drop

Description Connection: Violation Exceed Dropped

Type: number

Format: counter

prog_conn_exceed_reset

Description Connection: Violation Exceed Reset

Type: number

Format: counter

prog_conn_rcvd_exceed

Description Connection: Received Exceed

Type: number

Format: counter

prog_conn_rcvd_sent_ratio_exceed

Description Connection: Reveived to Sent Ratio Exceed

Type: number

Format: counter

prog_conn_samples

Description Sample Collected: Connection

Type: number

Format: counter

prog_conn_samples_processed

Description Sample Processed: Connnection

Type: number

Format: counter

prog_conn_sent_exceed

Description Connection: Sent Exceed

Type: number

Format: counter

prog_conn_time_exceed

Description Connection: Time Exceed

Type: number

Format: counter

prog_exceed_bl

Description Req-Resp: Violation Exceed Blacklisted

Type: number

Format: counter

prog_exceed_drop

Description Req-Resp: Violation Exceed Dropped

Type: number

Format: counter

prog_exceed_reset

Description Req-Resp: Violation Exceed Reset

Type: number

Format: counter

prog_first_req_time_exceed

Description Req-Resp: First Request Time Exceed

Type: number

Format: counter

prog_query_exceed

Description Req-Resp: Client Query Time Exceed

Type: number

Format: counter

prog_req_resp_time_exceed

Description Req-Resp: Request to Response Time Exceed

Type: number

Format: counter

prog_req_samples

Description Sample Collected: Req-Resp

Type: number

Format: counter

prog_req_samples_processed

Description Sample Processed: Req-Resp

Type: number

Format: counter

prog_request_len_exceed

Description Req-Resp: Request Length Exceed

Type: number

Format: counter

prog_resp_pkt_rate_exceed

Description Req-Resp: Response Packet Rate Exceed

Type: number

Format: counter

prog_resp_req_time_exceed

Description Req-Resp: Response to Request Time Exceed

Type: number

Format: counter

prog_response_len_exceed

Description Req-Resp: Response Length Exceed

Type: number

Format: counter

prog_think_exceed

Description Req-Resp: Server Think Time Exceed

Type: number

Format: counter

prog_win_exceed_bl

Description Time Window: Violation Exceed Blacklisted

Type: number

Format: counter

prog_win_exceed_drop

Description Time Window: Violation Exceed Dropped

Type: number

Format: counter

prog_win_exceed_reset

Description Time Window: Violation Exceed Reset

Type: number

Format: counter

prog_win_rcvd_exceed

Description Time Window: Received Exceed

Type: number

Format: counter

prog_win_rcvd_sent_ratio_exceed

Description Time Window: Received to Sent Exceed

Type: number

Format: counter

prog_win_samples

Description Sample Collected: Time Window

Type: number

Format: counter

prog_win_samples_processed

Description Sample Processed: Time Window

Type: number

Format: counter

prog_win_sent_exceed

Description Time Window: Sent Exceed

Type: number

Format: counter

referer_filter_blacklist

Description Referer Filter Blacklisted

Type: number

Format: counter

referer_filter_match

Description Referer Filter Match

Type: number

Format: counter

req

Description Request Total

Type: number

Format: counter

req_connect

Description Request Method CONNECT

Type: number

Format: counter

req_content_len

Description Request Content Length Received

Type: number

Format: counter

req_delete

Description Request Method DELETE

Type: number

Format: counter

req_get

Description Request Method GET

Type: number

Format: counter

req_head

Description Request Method HEAD

Type: number

Format: counter

req_http10

Description Request HTTP 1.0

Type: number

Format: counter

req_http11

Description Request HTTP 1.1

Type: number

Format: counter

req_ofo

Description Out-Of-Order Request

Type: number

Format: counter

req_options

Description Request Method OPTIONS

Type: number

Format: counter

req_post

Description Request Method POST

Type: number

Format: counter

req_put

Description Request Method PUT

Type: number

Format: counter

req_retran

Description Request Retransmit

Type: number

Format: counter

req_sz_16k

Description Request Payload Size Less Than or Equal to 16K

Type: number

Format: counter

req_sz_1k

Description Request Payload Size Less Than or Equal to 1K

Type: number

Format: counter

req_sz_256k

Description Request Payload Size Less Than or Equal to 256K

Type: number

Format: counter

req_sz_2k

Description Request Payload Size Less Than or Equal to 2K

Type: number

Format: counter

req_sz_32k

Description Request Payload Size Less Than or Equal to 32K

Type: number

Format: counter

req_sz_4k

Description Request Payload Size Less Than or Equal to 4K

Type: number

Format: counter

req_sz_64k

Description Request Payload Size Less Than or Equal to 64K

Type: number

Format: counter

req_sz_8k

Description Request Payload Size Less Than or Equal to 8K

Type: number

Format: counter

req_sz_gt_256k

Description Request Payload Size Larger Than 256K

Type: number

Format: counter

req_trace

Description Request Method TRACE

Type: number

Format: counter

req_unknown

Description Request Method UNKNOWN

Type: number

Format: counter

resp_code_1xx

Description HTTP Status Code 1XX

Type: number

Format: counter

resp_code_2xx

Description HTTP Status Code 2XX

Type: number

Format: counter

resp_code_3xx

Description HTTP Status Code 3XX

Type: number

Format: counter

resp_code_4xx

Description HTTP Status Code 4XX

Type: number

Format: counter

resp_code_5xx

Description HTTP Status Code 5XX

Type: number

Format: counter

resp_code_other

Description HTTP Status Code OTHER

Type: number

Format: counter

resp_mib_chunk_bad

Description Bad HTTP Response Chunk

Type: number

Format: counter

retransmit_excd

Description Retransmit Exceeded

Type: number

Format: counter

rsp_chunk

Description Response Chunk

Type: number

Format: counter

rst_cookie_fail

Description RST Cookie Failed

Type: number

Format: counter

same_sport_dport_drop

Description Same Source and Destination Port Drop

Type: number

Format: counter

secondary_port_conn_limm_exceed

Description Per Addr-Port Conn Limit Exceeded

Type: number

Format: counter

secondary_port_conn_rate_exceed

Description Per Addr-Port Conn Rate Exceeded

Type: number

Format: counter

secondary_port_hit

Description Per Addr-Port Hit

Type: number

Format: counter

secondary_port_kbit_rate_exceed

Description Per Addr-Port KiBit Rate Exceeded

Type: number

Format: counter

secondary_port_kbit_rate_exceed_pkt

Description Per Addr-Port KiBit Rate Exceeded Count

Type: number

Format: counter

secondary_port_pkt_rate_exceed

Description Per Addr-Port Packet Rate Exceeded

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

slow_post

Description Slow Post

Type: number

Format: counter

small_window_excd

Description Small-Window Exceeded

Type: number

Format: counter

small_window_rcv

Description Small-Window Receive

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

src_ack_auth_fail

Description Src ACK Retry Dropped

Type: number

Format: counter

src_ack_retry_blacklist

Description Src ACK Retry Timeout Blacklisted

Type: number

Format: counter

src_ack_retry_gap_drop

Description Src ACK Retry Retry-Gap Dropped

Type: number

Format: counter

src_ack_retry_init

Description Src ACK Retry Init

Type: number

Format: counter

src_ack_retry_reset

Description Src ACK Retry Timeout Reset

Type: number

Format: counter

src_ack_retry_rto_fail

Description Src ACK Retry RTO Dropped

Type: number

Format: counter

src_ack_retry_rto_pass

Description Src ACK Retry RTO Passed

Type: number

Format: counter

src_ack_retry_rto_progress

Description Src ACK Retry RTO Progress

Type: number

Format: counter

src_ack_retry_timeout

Description Src ACK Retry Timeout

Type: number

Format: counter

src_auth_drop

Description Src TCP Auth Dropped

Type: number

Format: counter

src_auth_drop_ack

Description Src TCP Auth Dropped: ACK

Type: number

Format: counter

src_auth_drop_ack_fail_auth

Description Src TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

src_auth_drop_ack_pass_auth

Description Src TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

src_auth_drop_ack_xmit

Description Src TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

src_auth_drop_rst

Description Src TCP Auth Dropped: RST

Type: number

Format: counter

src_auth_drop_rst_fail_auth

Description Src TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

src_auth_drop_rst_pass_auth

Description Src TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

src_auth_drop_rst_xmit

Description Src TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

src_auth_drop_syn

Description Src TCP Auth Dropped: SYN

Type: number

Format: counter

src_challenge_js_fail

Description Src Challenge Javascript Failed

Type: number

Format: counter

src_challenge_ud_fail

Description Src Challenge URL Redirect Failed

Type: number

Format: counter

src_conn_ofo_rate_excd

Description Src TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_conn_rexmit_rate_excd

Description Src TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

src_conn_zwindow_rate_excd

Description Src TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

src_create_conn_non_syn_dropped

Description Src Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

src_dos_policy_violation

Description Src Policy Violation

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_header_filter10_drop

Description Src Filter10 Match Dropped

Type: number

Format: counter

src_header_filter10_match

Description Src Filter10 Match

Type: number

Format: counter

src_header_filter1_drop

Description Src Filter1 Match Dropped

Type: number

Format: counter

src_header_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_header_filter2_drop

Description Src Filter2 Match Dropped

Type: number

Format: counter

src_header_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_header_filter3_drop

Description Src Filter3 Match Dropped

Type: number

Format: counter

src_header_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_header_filter4_drop

Description Src Filter4 Match Dropped

Type: number

Format: counter

src_header_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_header_filter5_drop

Description Src Filter5 Match Dropped

Type: number

Format: counter

src_header_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_header_filter6_drop

Description Src Filter6 Match Dropped

Type: number

Format: counter

src_header_filter6_match

Description Src Filter6 Match

Type: number

Format: counter

src_header_filter7_drop

Description Src Filter7 Match Dropped

Type: number

Format: counter

src_header_filter7_match

Description Src Filter7 Match

Type: number

Format: counter

src_header_filter8_drop

Description Src Filter8 Match Dropped

Type: number

Format: counter

src_header_filter8_match

Description Src Filter8 Match

Type: number

Format: counter

src_header_filter9_drop

Description Src Filter9 Match Dropped

Type: number

Format: counter

src_header_filter9_match

Description Src Filter9 Match

Type: number

Format: counter

src_header_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_header_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_header_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_header_filter_action_whitelist

Description Src Filter Action Whitelist

Type: number

Format: counter

src_header_filter_match

Description Src Filter Total Match

Type: number

Format: counter

src_header_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_header_filter_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_http_auth_drop

Description Src HTTP Auth Dropped

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_hw_drop_inserted

Description Src Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_removed

Description Src Hardware Drop Rules Removed

Type: number

Format: counter

src_js_challenge_sent

Description Src Challenge Javascript Sent

Type: number

Format: counter

src_learn_overflow

Description Source Dynamic Entry Overflow

Type: number

Format: counter

src_out_of_seq_excd

Description Src Out-Of-Seq Exceeded

Type: number

Format: counter

src_policy_drop

Description Src Policy Dropped

Type: number

Format: counter

src_post_rate_exceed

Description Src Post Rate Exceeded

Type: number

Format: counter

src_req_rate_exceed

Description Src Request Rate Exceeded

Type: number

Format: counter

src_retransmit_excd

Description Src Retransmit Exceeded

Type: number

Format: counter

src_rst_cookie_fail

Description Src RST Cookie Failed

Type: number

Format: counter

src_small_window_excd

Description Src Small-Window Exceeded

Type: number

Format: counter

src_syn_auth_fail

Description Src SYN Auth Failed

Type: number

Format: counter

src_syn_cookie_fail

Description Src SYN Cookie Failed

Type: number

Format: counter

src_syn_cookie_sent

Description Src SYN Cookie Sent

Type: number

Format: counter

src_syn_rate_exceed

Description Src TCP SYN Rate Exceeded

Type: number

Format: counter

src_syn_retry_blacklist

Description Src SYN Retry Timeout Blacklisted

Type: number

Format: counter

src_syn_retry_failed

Description Src SYN Retry Dropped

Type: number

Format: counter

src_syn_retry_gap_drop

Description Src SYN Retry-Gap Dropped

Type: number

Format: counter

src_syn_retry_init

Description Src SYN Retry Init

Type: number

Format: counter

src_syn_retry_reset

Description Src SYN Retry Timeout Reset

Type: number

Format: counter

src_syn_retry_rto_fail

Description Src SYN Retry RTO Dropped

Type: number

Format: counter

src_syn_retry_rto_pass

Description Src SYN Retry RTO Passed

Type: number

Format: counter

src_syn_retry_rto_progress

Description Src SYN Retry RTO Progress

Type: number

Format: counter

src_syn_retry_timeout

Description Src SYN Retry Timeout

Type: number

Format: counter

src_tcp_auth_rst

Description Src TCP Auth Reset

Type: number

Format: counter

src_ud_challenge_sent

Description Src Challenge URL Redirect Sent

Type: number

Format: counter

src_unauth_drop

Description Src TCP Unauth Dropped

Type: number

Format: counter

src_well_known_port

Description Src TCP SrcPort Wellknown

Type: number

Format: counter

src_zero_window_excd

Description Src Zero-Window Exceeded

Type: number

Format: counter

src_zone_service_entry_aged

Description SrcZoneService Entry Aged

Type: number

Format: counter

src_zone_service_entry_hit

Description SrcZoneService Entry Hit

Type: number

Format: counter

src_zone_service_entry_learned

Description SrcZoneService Entry Learned

Type: number

Format: counter

syn_auth_fail

Description SYN Auth Failed

Type: number

Format: counter

syn_auth_pass

Description SYN Auth Passed

Type: number

Format: counter

syn_auth_rst_ack_drop

Description SYN Auth RST-ACK Dropped

Type: number

Format: counter

syn_cookie_fail

Description SYN Cookie Failed

Type: number

Format: counter

syn_cookie_sent

Description SYN Cookie Sent

Type: number

Format: counter

syn_drop

Description SYN Dropped

Type: number

Format: counter

syn_retry_blacklist

Description SYN Retry Timeout Blacklisted

Type: number

Format: counter

syn_retry_failed

Description SYN Retry Dropped

Type: number

Format: counter

syn_retry_gap_drop

Description SYN Retry-Gap Dropped

Type: number

Format: counter

syn_retry_init

Description SYN Retry Init

Type: number

Format: counter

syn_retry_pass

Description SYN Retry Passed

Type: number

Format: counter

syn_retry_reset

Description SYN Retry Timeout Reset

Type: number

Format: counter

syn_retry_rto_fail

Description SYN Retry RTO Dropped

Type: number

Format: counter

syn_retry_rto_pass

Description SYN Retry RTO Passed

Type: number

Format: counter

syn_retry_rto_progress

Description SYN Retry RTO Progress

Type: number

Format: counter

syn_retry_timeout

Description SYN Retry Timeout

Type: number

Format: counter

syn_tfo_rcv

Description SYN TFO Received

Type: number

Format: counter

synack_multiple_attempts_per_ip_detected

Description SYNACK Multiple Attempts Per IP Detected

Type: number

Format: counter

synack_reset_sent

Description SYNACK Reset Sent

Type: number

Format: counter

tcp_ack_data_drop

Description TCP ACK with Data Dropped

Type: number

Format: counter

tcp_ack_data_fwd

Description TCP ACK with Data Forward

Type: number

Format: counter

tcp_ack_data_rcvd

Description TCP ACK with Data Received

Type: number

Format: counter

tcp_ack_drop

Description TCP ACK Dropped

Type: number

Format: counter

tcp_ack_fwd

Description TCP ACK Forward

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_auth_drop

Description TCP Auth Dropped

Type: number

Format: counter

tcp_auth_drop_ack

Description TCP Auth Dropped: ACK

Type: number

Format: counter

tcp_auth_drop_ack_fail_auth

Description TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

tcp_auth_drop_ack_pass_auth

Description TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

tcp_auth_drop_ack_xmit

Description TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

tcp_auth_drop_rst

Description TCP Auth Dropped: RST

Type: number

Format: counter

tcp_auth_drop_rst_fail_auth

Description TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

tcp_auth_drop_rst_pass_auth

Description TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

tcp_auth_drop_rst_xmit

Description TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

tcp_auth_drop_syn

Description TCP Auth Dropped: SYN

Type: number

Format: counter

tcp_auth_resp

Description TCP Auth Responded

Type: number

Format: counter

tcp_auth_rst

Description TCP Auth Reset

Type: number

Format: counter

tcp_cwr_drop

Description TCP CWR Dropped

Type: number

Format: counter

tcp_cwr_fwd

Description TCP CWR Forward

Type: number

Format: counter

tcp_cwr_rcvd

Description TCP CWR Received

Type: number

Format: counter

tcp_ece_drop

Description TCP ECE Dropped

Type: number

Format: counter

tcp_ece_fwd

Description TCP ECE Forward

Type: number

Format: counter

tcp_ece_rcvd

Description TCP ECE Received

Type: number

Format: counter

tcp_empty_ack_drop

Description TCP Empty ACK Dropped

Type: number

Format: counter

tcp_empty_ack_fwd

Description TCP Empty ACK Forward

Type: number

Format: counter

tcp_empty_ack_rcvd

Description TCP Empty ACK Received

Type: number

Format: counter

tcp_filter1_match

Description Filter1 Match

Type: number

Format: counter

tcp_filter2_match

Description Filter2 Match

Type: number

Format: counter

tcp_filter3_match

Description Filter3 Match

Type: number

Format: counter

tcp_filter4_match

Description Filter4 Match

Type: number

Format: counter

tcp_filter5_match

Description Filter5 Match

Type: number

Format: counter

tcp_filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

tcp_filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

tcp_filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

tcp_filter_action_whitelist

Description Filter Action WL

Type: number

Format: counter

tcp_filter_none_match

Description Filter No Match

Type: number

Format: counter

tcp_filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

tcp_fin_ack_drop

Description TCP FIN ACK Dropped

Type: number

Format: counter

tcp_fin_ack_fwd

Description TCP FIN ACK Forward

Type: number

Format: counter

tcp_fin_ack_rcvd

Description TCP FIN ACK Received

Type: number

Format: counter

tcp_fin_drop

Description TCP FIN Dropped

Type: number

Format: counter

tcp_fin_fwd

Description TCP FIN Forward

Type: number

Format: counter

tcp_fin_psh_ack_drop

Description TCP FIN PSH ACK Drop

Type: number

Format: counter

tcp_fin_psh_ack_fwd

Description TCP FIN PSH ACK Forward

Type: number

Format: counter

tcp_fin_psh_ack_rcvd

Description TCP FIN PSH ACK Received

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_psh_ack_drop

Description TCP PSH ACK Dropped

Type: number

Format: counter

tcp_psh_ack_fwd

Description TCP PSH ACK Forward

Type: number

Format: counter

tcp_psh_ack_rcvd

Description TCP PSH ACK Received

Type: number

Format: counter

tcp_psh_drop

Description TCP PSH Dropped

Type: number

Format: counter

tcp_psh_fwd

Description TCP PSH Forward

Type: number

Format: counter

tcp_psh_rcvd

Description TCP PSH Received

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP SYN Retransmit Exceeded Blacklist

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP SYN Retransmit Exceeded Drop

Type: number

Format: counter

tcp_rst_ack_drop

Description TCP RST ACK Dropped

Type: number

Format: counter

tcp_rst_ack_fwd

Description TCP RST ACK Forward

Type: number

Format: counter

tcp_rst_ack_rcvd

Description TCP RST ACK Received

Type: number

Format: counter

tcp_rst_drop

Description TCP RST Dropped

Type: number

Format: counter

tcp_rst_fwd

Description TCP RST Forward

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_syn_ack_drop

Description TCP SYN ACK Dropped

Type: number

Format: counter

tcp_syn_ack_fwd

Description TCP SYN ACK Forward

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_fwd

Description SYN Forward

Type: number

Format: counter

tcp_syn_rcvd

Description TCP Inbound SYN Received

Type: number

Format: counter

tcp_urg_drop

Description TCP URG Dropped

Type: number

Format: counter

tcp_urg_fwd

Description TCP URG Forward

Type: number

Format: counter

tcp_urg_rcvd

Description TCP URG Received

Type: number

Format: counter

too_many_headers

Description HTTP Header Too Many

Type: number

Format: counter

ud_challenge_failed

Description Challenge URL Redirect Failed

Type: number

Format: counter

ud_challenge_sent

Description Challenge URL Redirect Sent

Type: number

Format: counter

unauth_drop

Description TCP Unauth Dropped

Type: number

Format: counter

unauth_src_session_reset

Description Session Reset for Unauthenticated Src

Type: number

Format: counter

uri_filter_match

Description URI Filter Match

Type: number

Format: counter

use_hdr_src_ip

Description Use IP In Header As Src

Type: number

Format: counter

user_agent_filter_blacklist

Description Agent Filter Blacklisted

Type: number

Format: counter

user_agent_filter_match

Description Agent Filter Match

Type: number

Format: counter

wellknown_sport_drop

Description TCP SrcPort Wellknown

Type: number

Format: counter

window_small

Description Window Size Small

Type: number

Format: counter

window_small_drop

Description Window Size Small Dropped

Type: number

Format: counter

zero_window_excd

Description Zero-Window Exceeded

Type: number

Format: counter

2.33.347 ddos interface-http-health-check

Use DST Interface-ip entry as HTTP health-check target

interface-http-health-check Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	interface-http-health-check
Element URI	/axapi/v3/ddos/interface-http-health-check
Element Attributes	interface-http-health-check_attributes
Partition Visibility	shared
Schema	`interface-http-health-check schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/interface-http-health-check

interface-http-health-check attributes

```
POST /axapi/v3/ddos/interface-http-health-check
Payload:
{
    "interface-http-health-check": {
        "enable": "enable",
        "challenge-method": "http-redirect",
        "challenge-redirect-code": "302"
    }
}
```

Get Object

GET

/axapi/v3/ddos/interface-http-health-check

interface-http-health-check attributes

Modify Object

POST

/axapi/v3/ddos/interface-http-health-check

interface-http-health-check attributes

Replace Object

PUT

/axapi/v3/ddos/interface-http-health-check

interface-http-health-check attributes

Delete Object

DELETE

/axapi/v3/ddos/interface-http-health-check

interface-http-health-check attributes

interface-http-health-check attributes

challenge-method

Description 'http-redirect': http-redirect; 'javascript': javascript;

Type: string

Supported Values: http-redirect, javascript

challenge-redirect-code

Description '302': 302 Found; '307': 307 Temporary Redirect;

Type: string

Supported Values: 302, 307

Default: 302

challenge-uri-encode

Description Encode the challenge phrase in uri instead of in http cookie. Default encoded in http cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable

Description 'enable': enable;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.348 ddos ip-filtering-policy

IP Filter Configuration

ip-filtering-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*ip-filtering-policy-list*
Collection URI	/axapi/v3/ddos/ip-filtering-policy
Element Name	ip-filtering-policy
Element URI	/axapi/v3/ddos/ip-filtering-policy/{name}
Element Attributes	ip-filtering-policy_attributes
Partition Visibility	shared
Schema	`ip-filtering-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/ip-filtering-policy

ip-filtering-policy attributes

Create List

POST

/axapi/v3/ddos/ip-filtering-policy

ip-filtering-policy attributes

Get Object

GET

/axapi/v3/ddos/ip-filtering-policy/{name}

ip-filtering-policy attributes

Get List

GET

/axapi/v3/ddos/ip-filtering-policy

ip-filtering-policy-list

Modify Object

POST

/axapi/v3/ddos/ip-filtering-policy/{name}

ip-filtering-policy attributes

Replace Object

PUT

/axapi/v3/ddos/ip-filtering-policy/{name}

ip-filtering-policy attributes

Replace List

PUT

/axapi/v3/ddos/ip-filtering-policy

ip-filtering-policy-list

Delete Object

DELETE

/axapi/v3/ddos/ip-filtering-policy/{name}

ip-filtering-policy attributes

ip-filtering-policy-list

ip-filtering-policy-list is **JSON List** of *ip-filtering-policy attributes*

ip-filtering-policy-list : [

{ *ip-filtering-policy attributes* },

{ *ip-filtering-policy attributes* },

...

]

ip-filtering-policy attributes

name

Description DDOS ip-filtering-policy name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

no-rule-match-action

Description 'drop': Drop all the packets not meet any rule; 'permit': Forward all the packets not meet any rule (Default);

Type: string

Supported Values: drop, permit

Default: permit

rule-list

Type: List

Reference Object: */axapi/v3/ddos/ip-filtering-policy/{name}/rule/{seq}*

rule-statistics

Description 'enable': Enable;

Type: string

Supported Values: enable

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rule-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'drop': Drop the packet (default); 'permit': Skip afterword rules and continue other ddos process; 'blacklist': Blacklist source hosts with glid; 'bypass': Bypass all other ddos process rules and forward;

Type: string

Supported Values: drop, permit, blacklist, bypass

Default: drop

dst-ip

Description IPv4 Subnet address

Type: string

Format: ipv4-cidr

Mutual Exclusion: dst-ip, src-ipv6, and dst-ipv6 are mutually exclusive

dst-ipv6

Description IPv6 Subnet address

Type: string

Format: ipv6-address-plen

Mutual Exclusion: dst-ipv6, src-ip, and dst-ip are mutually exclusive

dst-port

Description Match only packets with the port number

Type: number

Range: 1-65535

Mutual Exclusion: dst-port and dst-port-start are mutually exclusive

dst-port-end

Description Ending Port Number

Type: number

Range: 1-65535

dst-port-start

Description Match only packets in the range of port numbers (Starting Port Number)

Type: number

Range: 1-65535

Mutual Exclusion: dst-port-start and dst-port are mutually exclusive

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

icmp-code

Description ICMP code

Type: number

Range: 0-255

icmp-type

Description ICMP message type

Type: number

Range: 0-255

proto-num

Description IP proto number

Type: number

Range: 0-255

protocol

Description 'tcp': TCP; 'udp': UDP; 'icmp-v4': ICMP; 'icmp-v6': ICMPv6; 'number': Specify IP protocol number;

Type: string

Supported Values: tcp, udp, icmp-v4, icmp-v6, number

seq

Description Sequence number

Type: number

Range: 1-200

src-ip

Description IPv4 Subnet address

Type: string

Format: ipv4-cidr

Mutual Exclusion: src-ip, src-ipv6, and dst-ipv6 are mutually exclusive

src-ipv6

Description IPv6 Subnet address

Type: string

Format: ipv6-address-plen

Mutual Exclusion: src-ipv6, src-ip, and dst-ip are mutually exclusive

src-port

Description Match only packets with the port number

Type: number

Range: 1-65535

Mutual Exclusion: src-port and src-port-start are mutually exclusive

src-port-end

Description Ending Port Number

Type: number

Range: 1-65535

src-port-start

Description Match only packets in the range of port numbers (Starting Port Number)

Type: number

Range: 1-65535

Mutual Exclusion: src-port-start and src-port are mutually exclusive

tcp-flag

Description 'match-all': not = 0 match = 1; 'none-of': not = 1 match = 0; 'match-any': not = 0 match = 0;

Type: string

Supported Values: match-all, none-of, match-any

tcp-flags-bitmask

Description Bitmask in Hex

Type: string

Format: time

Maximum Length: 255 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.349 ddos ip-filtering-policy rule

IP filter rule configuration

rule Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*seq*
Collection Name	*rule-list*
Collection URI	/axapi/v3/ddos/ip-filtering-policy/{name}/rule
Element Name	rule
Element URI	/axapi/v3/ddos/ip-filtering-policy/{name}/rule/{seq}
Element Attributes	rule_attributes
Partition Visibility	shared
Schema	`rule schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/ip-filtering-policy/{name}/rule

rule attributes

Create List

POST

/axapi/v3/ddos/ip-filtering-policy/{name}/rule

rule attributes

Get Object

GET

/axapi/v3/ddos/ip-filtering-policy/{name}/rule/{seq}

rule attributes

Get List

GET

/axapi/v3/ddos/ip-filtering-policy/{name}/rule

rule-list

Modify Object

POST

/axapi/v3/ddos/ip-filtering-policy/{name}/rule/{seq}

rule attributes

Replace Object

PUT

/axapi/v3/ddos/ip-filtering-policy/{name}/rule/{seq}

rule attributes

Replace List

PUT

/axapi/v3/ddos/ip-filtering-policy/{name}/rule

rule-list

Delete Object

DELETE

/axapi/v3/ddos/ip-filtering-policy/{name}/rule/{seq}

rule attributes

rule-list

rule-list is **JSON List** of *rule attributes*

rule-list : [

{ *rule attributes* },

{ *rule attributes* },

…

]

rule attributes

action

Description 'drop': Drop the packet (default); 'permit': Skip afterword rules and continue other ddos process; 'blacklist': Blacklist source hosts with glid; 'bypass': Bypass all other ddos process rules and forward;

Type: string

Supported Values: drop, permit, blacklist, bypass

Default: drop

dst-ip

Description IPv4 Subnet address

Type: string

Format: ipv4-cidr

Mutual Exclusion: dst-ip, src-ipv6, and dst-ipv6 are mutually exclusive

dst-ipv6

Description IPv6 Subnet address

Type: string

Format: ipv6-address-plen

Mutual Exclusion: dst-ipv6, src-ip, and dst-ip are mutually exclusive

dst-port

Description Match only packets with the port number

Type: number

Range: 1-65535

Mutual Exclusion: dst-port and dst-port-start are mutually exclusive

dst-port-end

Description Ending Port Number

Type: number

Range: 1-65535

dst-port-start

Description Match only packets in the range of port numbers (Starting Port Number)

Type: number

Range: 1-65535

Mutual Exclusion: dst-port-start and dst-port are mutually exclusive

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

icmp-code

Description ICMP code

Type: number

Range: 0-255

icmp-type

Description ICMP message type

Type: number

Range: 0-255

proto-num

Description IP proto number

Type: number

Range: 0-255

protocol

Description 'tcp': TCP; 'udp': UDP; 'icmp-v4': ICMP; 'icmp-v6': ICMPv6; 'number': Specify IP protocol number;

Type: string

Supported Values: tcp, udp, icmp-v4, icmp-v6, number

seq

Description Sequence number

Type: number

Range: 1-200

src-ip

Description IPv4 Subnet address

Type: string

Format: ipv4-cidr

Mutual Exclusion: src-ip, src-ipv6, and dst-ipv6 are mutually exclusive

src-ipv6

Description IPv6 Subnet address

Type: string

Format: ipv6-address-plen

Mutual Exclusion: src-ipv6, src-ip, and dst-ip are mutually exclusive

src-port

Description Match only packets with the port number

Type: number

Range: 1-65535

Mutual Exclusion: src-port and src-port-start are mutually exclusive

src-port-end

Description Ending Port Number

Type: number

Range: 1-65535

src-port-start

Description Match only packets in the range of port numbers (Starting Port Number)

Type: number

Range: 1-65535

Mutual Exclusion: src-port-start and src-port are mutually exclusive

tcp-flag

Description 'match-all': not = 0 match = 1; 'none-of': not = 1 match = 0; 'match-any': not = 0 match = 0;

Type: string

Supported Values: match-all, none-of, match-any

tcp-flags-bitmask

Description Bitmask in Hex

Type: string

Format: time

Maximum Length: 255 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.350 ddos ip-proto

global ddos port counters

ip-proto Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-proto
Element URI	/axapi/v3/ddos/ip-proto
Element Attributes	ip-proto_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/ip-proto/stats
Schema	`ip-proto schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/ip-proto

ip-proto attributes

Get Object

GET

/axapi/v3/ddos/ip-proto

ip-proto attributes

Modify Object

POST

/axapi/v3/ddos/ip-proto

ip-proto attributes

Replace Object

PUT

/axapi/v3/ddos/ip-proto

ip-proto attributes

Delete Object

DELETE

/axapi/v3/ddos/ip-proto

ip-proto attributes

ip-proto attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.351 ddos ip-proto stats

Statistics for the object ip-proto

ip-proto Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ip-proto
Element URI	/axapi/v3/ddos/ip-proto/stats
Element Attributes	ip-proto_attributes
Partition Visibility	None
Schema	`ip-proto schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/ip-proto/stats

ip-proto attributes

Get Object

GET

/axapi/v3/ddos/ip-proto/stats

ip-proto attributes

Modify Object

POST

/axapi/v3/ddos/ip-proto/stats

ip-proto attributes

Replace Object

PUT

/axapi/v3/ddos/ip-proto/stats

ip-proto attributes

Delete Object

DELETE

/axapi/v3/ddos/ip-proto/stats

ip-proto attributes

ip-proto attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dst_ipproto_bl

Description Dst IP-Proto Blacklist Packets Dropped

Type: number

Format: counter

dst_ipproto_drop

Description Dst IP-Proto Total Packets Dropped

Type: number

Format: counter

dst_ipproto_exceed_drop_any

Description Dst IP-Proto Exceed Dropped

Type: number

Format: counter

dst_ipproto_frag_rate_exceed

Description Dst IP-Proto Frag Pkt Rate Exceeded

Type: number

Format: counter

dst_ipproto_kbit_rate_exceed

Description Dst IP-Proto KiBit Rate Exceeded (KiBit)

Type: number

Format: counter

dst_ipproto_pkt_rate_exceed

Description Dst IP-Proto Pkt Rate Exceeded

Type: number

Format: counter

dst_ipproto_rcvd

Description Dst IP-Proto Total Packets Received

Type: number

Format: counter

2.33.352 ddos ipproto-icmp stats

Statistics for the object ipproto-icmp

ipproto-icmp Specification

Parameter	Value
Type	*Collection*
Collection Name	*ipproto-icmp-list*
Collection URI	/axapi/v3/ddos/ipproto-icmp
Element Name	ipproto-icmp
Element URI	/axapi/v3/ddos/ipproto-icmp/stats
Element Attributes	ipproto-icmp_attributes
Partition Visibility	None
Schema	`ipproto-icmp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/ipproto-icmp

ipproto-icmp attributes

Create List

POST

/axapi/v3/ddos/ipproto-icmp

ipproto-icmp attributes

Get Object

GET

/axapi/v3/ddos/ipproto-icmp/stats

ipproto-icmp attributes

Get List

GET

/axapi/v3/ddos/ipproto-icmp

ipproto-icmp-list

Modify Object

POST

/axapi/v3/ddos/ipproto-icmp/stats

ipproto-icmp attributes

Replace Object

PUT

/axapi/v3/ddos/ipproto-icmp/stats

ipproto-icmp attributes

Replace List

PUT

/axapi/v3/ddos/ipproto-icmp

ipproto-icmp-list

Delete Object

DELETE

/axapi/v3/ddos/ipproto-icmp/stats

ipproto-icmp attributes

ipproto-icmp-list

ipproto-icmp-list is **JSON List** of *ipproto-icmp attributes*

ipproto-icmp-list : [

{ *ipproto-icmp attributes* },

{ *ipproto-icmp attributes* },

...

]

ipproto-icmp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

bl

Description Dst Blacklisted

Type: number

Format: counter

current_es_level

Description Current Escalation Level

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

dst_hw_drop_inserted

Description Dst Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_removed

Description Dst Hardware Drop Rules Removed

Type: number

Format: counter

dynamic_count_warn

Description dynamic-entry-count warning send

Type: number

Format: counter

ew_inbound_port_byte_drop

Description East-West Inbound Bytes Dropped

Type: number

Format: counter

ew_inbound_port_byte_rcv

Description East-West Inbound Bytes Recevied

Type: number

Format: counter

ew_inbound_port_byte_sent

Description East-West Inbound Bytes Forwarded

Type: number

Format: counter

ew_inbound_port_drop

Description East-West Inbound Packets Dropped

Type: number

Format: counter

ew_inbound_port_rcv

Description East-West Inbound Packets Received

Type: number

Format: counter

ew_inbound_port_sent

Description East-West Inbound Packets Forwarded

Type: number

Format: counter

ew_outbound_port_byte_drop

Description East-West Outbound Bytes Forwarded

Type: number

Format: counter

ew_outbound_port_byte_rcv

Description East-West Outbound Bytes Recevied

Type: number

Format: counter

ew_outbound_port_byte_sent

Description East-West Outbound Bytes Dropped

Type: number

Format: counter

ew_outbound_port_drop

Description East-West Outbound Packets Dropped

Type: number

Format: counter

ew_outbound_port_rcv

Description East-West Outbound Packets Received

Type: number

Format: counter

ew_outbound_port_sent

Description East-West Outbound Packets Forwarded

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

icmpv4_rfc_undef_drop

Description ICMPv4 RFC Undef Type Dropped

Type: number

Format: counter

icmpv6_rfc_undef_drop

Description ICMPv6 RFC Undef Type Dropped

Type: number

Format: counter

ip_filtering_bl

Description IP Filtering Policy: Blacklisted

Type: number

Format: counter

ip_filtering_drop

Description IP Filtering Policy: Dropped

Type: number

Format: counter

no_policy_class_list_match

Description No Policy Class-list Match

Type: number

Format: counter

no_route_drop

Description No Route Dropped

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_src_escalation

Description Src Escalation

Type: number

Format: counter

rate_type0_exceed

Description ICMP Type Dst Rate 1 Exceeded

Type: number

Format: counter

rate_type0_exceed_bl

Description ICMP Type Dst Rate 1 Blacklisted

Type: number

Format: counter

rate_type0_exceed_drop

Description ICMP Type Dst Rate 1 Dropped

Type: number

Format: counter

rate_type1_exceed

Description ICMP Type Dst Rate 2 Exceeded

Type: number

Format: counter

rate_type1_exceed_bl

Description ICMP Type Dst Rate 2 Blacklisted

Type: number

Format: counter

rate_type1_exceed_drop

Description ICMP Type Dst Rate 2 Dropped

Type: number

Format: counter

rate_type2_exceed

Description ICMP Type Dst Rate 3 Exceeded

Type: number

Format: counter

rate_type2_exceed_bl

Description ICMP Type Dst Rate 3 Blacklisted

Type: number

Format: counter

rate_type2_exceed_drop

Description ICMP Type Dst Rate 3 Dropped

Type: number

Format: counter

same_sport_dport_drop

Description Same Source and Destination Port Drop

Type: number

Format: counter

secondary_port_hit

Description Per Addr-Port Hit

Type: number

Format: counter

secondary_port_kbit_rate_exceed

Description Per Addr-Port KiBit Rate Exceeded

Type: number

Format: counter

secondary_port_kbit_rate_exceed_pkt

Description Per Addr-Port KiBit Rate Exceeded Count

Type: number

Format: counter

secondary_port_pkt_rate_exceed

Description Per Addr-Port Packet Rate Exceeded

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_hw_drop_inserted

Description Src Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_removed

Description Src Hardware Drop Rules Removed

Type: number

Format: counter

src_learn_overflow

Description Source Dynamic Entry Overflow

Type: number

Format: counter

src_rate_type0_exceed

Description ICMP Type Src Rate 1 Exceeded

Type: number

Format: counter

src_rate_type0_exceed_bl

Description ICMP Type Src Rate 1 Blacklisted

Type: number

Format: counter

src_rate_type0_exceed_drop

Description ICMP Type Src Rate 1 Dropped

Type: number

Format: counter

src_rate_type1_exceed

Description ICMP Type Src Rate 2 Exceeded

Type: number

Format: counter

src_rate_type1_exceed_bl

Description ICMP Type Src Rate 2 Blacklisted

Type: number

Format: counter

src_rate_type1_exceed_drop

Description ICMP Type Src Rate 2 Dropped

Type: number

Format: counter

src_rate_type2_exceed

Description ICMP Type Src Rate 3 Exceeded

Type: number

Format: counter

src_rate_type2_exceed_bl

Description ICMP Type Src Rate 3 Blacklisted

Type: number

Format: counter

src_rate_type2_exceed_drop

Description ICMP Type Src Rate 3 Dropped

Type: number

Format: counter

src_zone_service_entry_aged

Description SrcZoneService Entry Aged

Type: number

Format: counter

src_zone_service_entry_hit

Description SrcZoneService Entry Hit

Type: number

Format: counter

src_zone_service_entry_learned

Description SrcZoneService Entry Learned

Type: number

Format: counter

type

Description ICMP Type

Type: number

Format: counter

type_bl

Description ICMP Type Blacklisted

Type: number

Format: counter

type_deny_drop

Description ICMP Type Dropped

Type: number

Format: counter

wildcard

Description ICMP Type Wildcard

Type: number

Format: counter

wildcard_bl

Description ICMP Type Wildcard Blacklisted

Type: number

Format: counter

wildcard_deny_drop

Description ICMP Type Wildcard Dropped

Type: number

Format: counter

2.33.353 ddos l4-icmp

l4 icmp counters

l4-icmp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-icmp
Element URI	/axapi/v3/ddos/l4-icmp
Element Attributes	l4-icmp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/l4-icmp/stats
Schema	`l4-icmp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-icmp

l4-icmp attributes

Get Object

GET

/axapi/v3/ddos/l4-icmp

l4-icmp attributes

Modify Object

POST

/axapi/v3/ddos/l4-icmp

l4-icmp attributes

Replace Object

PUT

/axapi/v3/ddos/l4-icmp

l4-icmp attributes

Delete Object

DELETE

/axapi/v3/ddos/l4-icmp

l4-icmp attributes

l4-icmp attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.354 ddos l4-icmp stats

Statistics for the object l4-icmp

l4-icmp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-icmp
Element URI	/axapi/v3/ddos/l4-icmp/stats
Element Attributes	l4-icmp_attributes
Partition Visibility	None
Schema	`l4-icmp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-icmp/stats

l4-icmp attributes

Get Object

GET

/axapi/v3/ddos/l4-icmp/stats

l4-icmp attributes

Modify Object

POST

/axapi/v3/ddos/l4-icmp/stats

l4-icmp attributes

Replace Object

PUT

/axapi/v3/ddos/l4-icmp/stats

l4-icmp attributes

Delete Object

DELETE

/axapi/v3/ddos/l4-icmp/stats

l4-icmp attributes

l4-icmp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

icmp_any_exceed

Description ICMP Exceeded

Type: number

Format: counter

icmp_drop_bl

Description ICMP Blacklisted Packets Dropped

Type: number

Format: counter

icmp_dst_drop

Description ICMP Dst Packets Dropped

Type: number

Format: counter

icmp_echo_rcvd

Description ICMP Echo Received

Type: number

Format: counter

icmp_frag_drop

Description ICMP Frag Dropped

Type: number

Format: counter

icmp_frag_rcvd

Description ICMP Frag Received

Type: number

Format: counter

icmp_other_rcvd

Description ICMP other Received

Type: number

Format: counter

icmp_rate_exceed0

Description ICMP Type Rate 1 Exceeded

Type: number

Format: counter

icmp_rate_exceed0_bl

Description ICMP Type Rate 1 Blacklisted

Type: number

Format: counter

icmp_rate_exceed0_drop

Description ICMP Type Rate 1 Dropped

Type: number

Format: counter

icmp_rate_exceed1

Description ICMP Type Rate 2 Exceeded

Type: number

Format: counter

icmp_rate_exceed1_bl

Description ICMP Type Rate 2 Blacklisted

Type: number

Format: counter

icmp_rate_exceed1_drop

Description ICMP Type Rate 2 Dropped

Type: number

Format: counter

icmp_rate_exceed2

Description ICMP Type Rate 3 Exceeded

Type: number

Format: counter

icmp_rate_exceed2_bl

Description ICMP Type Rate 3 Blacklisted

Type: number

Format: counter

icmp_rate_exceed2_drop

Description ICMP Type Rate 3 Dropped

Type: number

Format: counter

icmp_rcvd

Description ICMP Total Packets Received

Type: number

Format: counter

icmp_src_drop

Description ICMP Src Packets Dropped

Type: number

Format: counter

icmp_src_dst_bl_drop_user_cfg

Description ICMP SrcDst Blacklisted User Packets Dropped

Type: number

Format: counter

icmp_src_dst_drop

Description ICMP SrcDst Packets Dropped

Type: number

Format: counter

icmp_total_bytes_drop

Description ICMP Total Bytes Dropped

Type: number

Format: counter

icmp_total_bytes_rcv

Description ICMP Total Bytes Received

Type: number

Format: counter

icmp_total_drop

Description ICMP Total Packets Dropped

Type: number

Format: counter

icmp_type

Description ICMP Type

Type: number

Format: counter

icmp_type_bl

Description ICMP Type Blacklisted

Type: number

Format: counter

icmp_type_deny_drop

Description ICMP Type Dropped

Type: number

Format: counter

icmp_v4_rfc_undef_drop

Description ICMPv4 RFC Undef Type Dropped

Type: number

Format: counter

icmp_v6_rfc_undef_drop

Description ICMPv6 RFC Undef Type Dropped

Type: number

Format: counter

icmp_wildcard

Description ICMP Type Wildcard

Type: number

Format: counter

icmp_wildcard_bl

Description ICMP Type Wildcard Blacklisted

Type: number

Format: counter

icmp_wildcard_deny_drop

Description ICMP Type Wildcard Dropped

Type: number

Format: counter

src_icmp_bl_user_config

Description ICMP Src Blacklisted User Packets Dropped

Type: number

Format: counter

2.33.355 ddos l4-other

l4 other counters

l4-other Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-other
Element URI	/axapi/v3/ddos/l4-other
Element Attributes	l4-other_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/l4-other/stats
Schema	`l4-other schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-other

l4-other attributes

Get Object

GET

/axapi/v3/ddos/l4-other

l4-other attributes

Modify Object

POST

/axapi/v3/ddos/l4-other

l4-other attributes

Replace Object

PUT

/axapi/v3/ddos/l4-other

l4-other attributes

Delete Object

DELETE

/axapi/v3/ddos/l4-other

l4-other attributes

l4-other attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.356 ddos l4-other stats

Statistics for the object l4-other

l4-other Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-other
Element URI	/axapi/v3/ddos/l4-other/stats
Element Attributes	l4-other_attributes
Partition Visibility	None
Schema	`l4-other schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-other/stats

l4-other attributes

Get Object

GET

/axapi/v3/ddos/l4-other/stats

l4-other attributes

Modify Object

POST

/axapi/v3/ddos/l4-other/stats

l4-other attributes

Replace Object

PUT

/axapi/v3/ddos/l4-other/stats

l4-other attributes

Delete Object

DELETE

/axapi/v3/ddos/l4-other/stats

l4-other attributes

l4-other attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dst_other_filter_action_blacklist

Description Dst Filter Action Blacklist

Type: number

Format: counter

dst_other_filter_action_default_pass

Description Dst Filter Action Default Pass

Type: number

Format: counter

dst_other_filter_action_drop

Description Dst Filter Action Drop

Type: number

Format: counter

dst_other_filter_action_whitelist

Description Dst Filter Action WL

Type: number

Format: counter

dst_other_filter_match

Description Dst Filter Match

Type: number

Format: counter

dst_other_filter_not_match

Description Dst Filter No Match

Type: number

Format: counter

other_any_exceed

Description OTHER Exceeded

Type: number

Format: counter

other_drop_bl

Description OTHER Blacklisted Packets Dropped

Type: number

Format: counter

other_drop_black_user_cfg_src

Description OTHER Src Blacklist User Packets Dropped

Type: number

Format: counter

other_drop_black_user_cfg_src_dst

Description OTHER SrcDst Blacklist User Packets Dropped

Type: number

Format: counter

other_dst_drop

Description OTHER Dst Packets Dropped

Type: number

Format: counter

other_frag_drop

Description OTHER Frag Dropped

Type: number

Format: counter

other_frag_rcvd

Description OTHER Frag Received

Type: number

Format: counter

other_receive

Description OTHER Total Packets Received

Type: number

Format: counter

other_src_drop

Description OTHER Src Packets Dropped

Type: number

Format: counter

other_src_dst_drop

Description OTHER SrcDst Packets Dropped

Type: number

Format: counter

other_total_bytes_drop

Description OTHER Total Bytes Dropped

Type: number

Format: counter

other_total_bytes_rcv

Description OTHER Total Bytes Received

Type: number

Format: counter

other_total_drop

Description OTHER Total Packets Dropped

Type: number

Format: counter

src_dst_other_filter_action_blacklist

Description SrcDst Filter Action Blacklist

Type: number

Format: counter

src_dst_other_filter_action_default_pass

Description SrcDst Filter Action Default Pass

Type: number

Format: counter

src_dst_other_filter_action_drop

Description SrcDst Filter Action Drop

Type: number

Format: counter

src_dst_other_filter_action_whitelist

Description SrcDst Filter Action WL

Type: number

Format: counter

src_dst_other_filter_match

Description SrcDst Filter Match

Type: number

Format: counter

src_dst_other_filter_not_match

Description SrcDst Filter No Match

Type: number

Format: counter

src_other_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_other_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_other_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_other_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_other_filter_match

Description Src Filter Match

Type: number

Format: counter

src_other_filter_not_match

Description Src Filter No Match

Type: number

Format: counter

2.33.357 ddos l4-ssl

DDOS SSL L4 Statistics

l4-ssl Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-ssl
Element URI	/axapi/v3/ddos/l4-ssl
Element Attributes	l4-ssl_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/l4-ssl/stats
Schema	`l4-ssl schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-ssl

l4-ssl attributes

Get Object

GET

/axapi/v3/ddos/l4-ssl

l4-ssl attributes

Modify Object

POST

/axapi/v3/ddos/l4-ssl

l4-ssl attributes

Replace Object

PUT

/axapi/v3/ddos/l4-ssl

l4-ssl attributes

Delete Object

DELETE

/axapi/v3/ddos/l4-ssl

l4-ssl attributes

l4-ssl attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.358 ddos l4-ssl-port stats

Statistics for the object l4-ssl-port

l4-ssl-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*l4-ssl-port-list*
Collection URI	/axapi/v3/ddos/l4-ssl-port
Element Name	l4-ssl-port
Element URI	/axapi/v3/ddos/l4-ssl-port/stats
Element Attributes	l4-ssl-port_attributes
Partition Visibility	None
Schema	`l4-ssl-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-ssl-port

l4-ssl-port attributes

Create List

POST

/axapi/v3/ddos/l4-ssl-port

l4-ssl-port attributes

Get Object

GET

/axapi/v3/ddos/l4-ssl-port/stats

l4-ssl-port attributes

Get List

GET

/axapi/v3/ddos/l4-ssl-port

l4-ssl-port-list

Modify Object

POST

/axapi/v3/ddos/l4-ssl-port/stats

l4-ssl-port attributes

Replace Object

PUT

/axapi/v3/ddos/l4-ssl-port/stats

l4-ssl-port attributes

Replace List

PUT

/axapi/v3/ddos/l4-ssl-port

l4-ssl-port-list

Delete Object

DELETE

/axapi/v3/ddos/l4-ssl-port/stats

l4-ssl-port attributes

l4-ssl-port-list

l4-ssl-port-list is **JSON List** of *l4-ssl-port attributes*

```
l4-ssl-port-list : [
        { l4-ssl-port attributes },
        { l4-ssl-port attributes },
        ...
    ]
```

l4-ssl-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ack_auth_fail

Description ACK Retry Dropped

Type: number

Format: counter

ack_retry_blacklist

Description ACK Retry Timeout Blacklisted

Type: number

Format: counter

ack_retry_gap_drop

Description ACK Retry Retry-Gap Dropped

Type: number

Format: counter

ack_retry_init

Description ACK Retry Init

Type: number

Format: counter

ack_retry_pass

Description ACK Retry Passed

Type: number

Format: counter

ack_retry_reset

Description ACK Retry Timeout Reset

Type: number

Format: counter

ack_retry_rto_fail

Description ACK Retry RTO Dropped

Type: number

Format: counter

ack_retry_rto_pass

Description ACK Retry RTO Passed

Type: number

Format: counter

ack_retry_rto_progress

Description ACK Retry RTO Progress

Type: number

Format: counter

ack_retry_timeout

Description ACK Retry Timeout

Type: number

Format: counter

auth_handshake_bl

Description Auth Handshake Blacklisted

Type: number

Format: counter

auth_handshake_fail

Description Auth Handshake Fail

Type: number

Format: counter

auth_handshake_success

Description Auth Handshake Success

Type: number

Format: counter

auth_handshake_timeout

Description Auth Handshake Timeout

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

cipher_suites_limit_exceed

Description SSL ClientHello Cipher Suites exceed limit

Type: number

Format: counter

client_ext_limit_exceed

Description SSL ClientHello Client Extension exceed limit

Type: number

Format: counter

clienthello_to_appdata_timeout

Description SSL ClientHello to Application-Data timeout

Type: number

Format: counter

conn_close

Description Connections Closed

Type: number

Format: counter

conn_close_half_open

Description Half Open Connections Closed

Type: number

Format: counter

conn_close_w_fin

Description FIN Connections Closed

Type: number

Format: counter

conn_close_w_idle

Description Idle Connections Closed

Type: number

Format: counter

conn_close_w_rst

Description RST Connections Closed

Type: number

Format: counter

conn_create_from_ack

Description Connections Created From ACK

Type: number

Format: counter

conn_create_from_syn

Description Connections Created From SYN

Type: number

Format: counter

conn_create_from_synack

Description Connections Created From SYNACK

Type: number

Format: counter

conn_ofo_rate_excd

Description TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

conn_prate_excd

Description TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

conn_rexmit_rate_excd

Description TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

conn_zwindow_rate_excd

Description TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

create_conn_non_syn_dropped

Description Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

do_auth_handshake

Description Auth Handshake

Type: number

Format: counter

drop_packet

Description Packets Dropped

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

dst_req_rate_exceed

Description Dst Request Rate Exceeded

Type: number

Format: counter

er_condition

Description Error Condition

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action WL

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

handshake_finished_to_appdata_timeout

Description SSL Handshake finished to Application-Data timeout

Type: number

Format: counter

hybrid_auth_auth_no_match

Description SYN Auth Hybrid Auth No Match Drop

Type: number

Format: counter

hybrid_auth_auth_no_match_ack_rcv

Description SYN Auth Hybrid Auth No Match Drop: ACK Received

Type: number

Format: counter

hybrid_auth_auth_no_match_rst_rcv

Description SYN Auth Hybrid Auth No Match Drop: RST Received

Type: number

Format: counter

hybrid_auth_entry_aged_out

Description SYN Auth Hybrid Entry Aged Out

Type: number

Format: counter

hybrid_auth_filter_full

Description SYN Auth Hybrid Filter Full

Type: number

Format: counter

hybrid_auth_invalid_fail

Description SYN Auth Hybrid Invalid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_invalid_pass

Description SYN Auth Hybrid Invalid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_invalid_sa_sent

Description SYN Auth Hybrid Invalid SYNACK Sent

Type: number

Format: counter

hybrid_auth_lookup_fail

Description SYN Auth Hybrid Lookup Fail

Type: number

Format: counter

hybrid_auth_method_change

Description SYN Auth Hybrid Method Change

Type: number

Format: counter

hybrid_auth_unknown_fail

Description SYN Auth Hybrid Unknown Auth Fail

Type: number

Format: counter

hybrid_auth_unknown_pass

Description SYN Auth Hybrid Unknown Auth Pass

Type: number

Format: counter

hybrid_auth_valid_fail

Description SYN Auth Hybrid Valid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_valid_pass

Description SYN Auth Hybrid Valid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_valid_sa_sent

Description SYN Auth Hybrid Valid SYNACK Sent

Type: number

Format: counter

is_renegotiation

Description SSL Renegotiation

Type: number

Format: counter

is_ssl3

Description SSL v3

Type: number

Format: counter

is_tls1_0

Description TLS v1.0

Type: number

Format: counter

is_tls1_1

Description TLS v1.1

Type: number

Format: counter

is_tls1_2+

Description TLS v1.2 or higher version

Type: number

Format: counter

new_syn

Description TCP SYN

Type: number

Format: counter

out_of_seq_excd

Description Out-Of-Seq Exceeded

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

policy_drop

Description Policy Dropped

Type: number

Format: counter

policy_reset

Description Policy Reset

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_syn_rate_exceed

Description TCP SYN Rate Exceeded

Type: number

Format: counter

port_synack_rate_exceed

Description TCP SYNACK Rate Exceeded

Type: number

Format: counter

processed

Description Packets Processed

Type: number

Format: counter

prog_conn_exceed_bl

Description Connection: Violation Exceed Blacklisted

Type: number

Format: counter

prog_conn_exceed_drop

Description Connection: Violation Exceed Dropped

Type: number

Format: counter

prog_conn_exceed_reset

Description Connection: Violation Exceed Reset

Type: number

Format: counter

prog_conn_rcvd_exceed

Description Connection: Received Exceed

Type: number

Format: counter

prog_conn_rcvd_sent_ratio_exceed

Description Connection: Reveived to Sent Ratio Exceed

Type: number

Format: counter

prog_conn_samples

Description Sample Collected: Connection

Type: number

Format: counter

prog_conn_samples_processed

Description Sample Processed: Connnection

Type: number

Format: counter

prog_conn_sent_exceed

Description Connection: Sent Exceed

Type: number

Format: counter

prog_conn_time_exceed

Description Connection: Time Exceed

Type: number

Format: counter

prog_exceed_bl

Description Req-Resp: Violation Exceed Blacklisted

Type: number

Format: counter

prog_exceed_drop

Description Req-Resp: Violation Exceed Dropped

Type: number

Format: counter

prog_exceed_reset

Description Req-Resp: Violation Exceed Reset

Type: number

Format: counter

prog_first_req_time_exceed

Description Req-Resp: First Request Time Exceed

Type: number

Format: counter

prog_query_exceed

Description Req-Resp: Client Query Time Exceed

Type: number

Format: counter

prog_req_resp_time_exceed

Description Req-Resp: Request to Response Time Exceed

Type: number

Format: counter

prog_req_samples

Description Sample Collected: Req-Resp

Type: number

Format: counter

prog_req_samples_processed

Description Sample Processed: Req-Resp

Type: number

Format: counter

prog_request_len_exceed

Description Req-Resp: Request Length Exceed

Type: number

Format: counter

prog_resp_pkt_rate_exceed

Description Req-Resp: Response Packet Rate Exceed

Type: number

Format: counter

prog_resp_req_time_exceed

Description Req-Resp: Response to Request Time Exceed

Type: number

Format: counter

prog_response_len_exceed

Description Req-Resp: Response Length Exceed

Type: number

Format: counter

prog_think_exceed

Description Req-Resp: Server Think Time Exceed

Type: number

Format: counter

prog_win_exceed_bl

Description Time Window: Violation Exceed Blacklisted

Type: number

Format: counter

prog_win_exceed_drop

Description Time Window: Violation Exceed Dropped

Type: number

Format: counter

prog_win_exceed_reset

Description Time Window: Violation Exceed Reset

Type: number

Format: counter

prog_win_rcvd_exceed

Description Time Window: Received Exceed

Type: number

Format: counter

prog_win_rcvd_sent_ratio_exceed

Description Time Window: Received to Sent Exceed

Type: number

Format: counter

prog_win_samples

Description Sample Collected: Time Window

Type: number

Format: counter

prog_win_samples_processed

Description Sample Processed: Time Window

Type: number

Format: counter

prog_win_sent_exceed

Description Time window: Sent Exceed

Type: number

Format: counter

renegotiation_exceed

Description Renegotiation Exceeded

Type: number

Format: counter

renegotiation_incomplete

Description Renegotiation Incomplete

Type: number

Format: counter

reset_while_other_in_handshake

Description Reset While Others in Handshake

Type: number

Format: counter

retransmit_excd

Description Retransmit Exceeded

Type: number

Format: counter

rst_cookie_fail

Description RST Cookie Failed

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

small_window_excd

Description Small-Window Exceeded

Type: number

Format: counter

small_window_rcv

Description Small-Window Receive

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

src_ack_auth_fail

Description Src ACK Retry Dropped

Type: number

Format: counter

src_ack_retry_blacklist

Description Src ACK Retry Timeout Blacklisted

Type: number

Format: counter

src_ack_retry_gap_drop

Description Src ACK Retry Retry-Gap Dropped

Type: number

Format: counter

src_ack_retry_init

Description Src ACK Retry Init

Type: number

Format: counter

src_ack_retry_reset

Description Src ACK Retry Timeout Reset

Type: number

Format: counter

src_ack_retry_rto_fail

Description Src ACK Retry RTO Dropped

Type: number

Format: counter

src_ack_retry_rto_pass

Description Src ACK Retry RTO Passed

Type: number

Format: counter

src_ack_retry_rto_progress

Description Src ACK Retry RTO Progress

Type: number

Format: counter

src_ack_retry_timeout

Description Src ACK Retry Timeout

Type: number

Format: counter

src_auth_drop

Description Src TCP Auth Dropped

Type: number

Format: counter

src_auth_drop_ack

Description Src TCP Auth Dropped: ACK

Type: number

Format: counter

src_auth_drop_ack_fail_auth

Description Src TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

src_auth_drop_ack_pass_auth

Description Src TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

src_auth_drop_ack_xmit

Description Src TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

src_auth_drop_rst

Description Src TCP Auth Dropped: RST

Type: number

Format: counter

src_auth_drop_rst_fail_auth

Description Src TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

src_auth_drop_rst_pass_auth

Description Src TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

src_auth_drop_rst_xmit

Description Src TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

src_auth_drop_syn

Description Src TCP Auth Dropped: SYN

Type: number

Format: counter

src_conn_ofo_rate_excd

Description Src TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_conn_rexmit_rate_excd

Description Src TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

src_conn_zwindow_rate_excd

Description Src TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

src_create_conn_non_syn_dropped

Description Src Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_drop_packet

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_handshaking_conn_exceed

Description SSL Src-handshake connection exceed limit

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_out_of_seq_excd

Description Src Out-Of-Seq Exceeded

Type: number

Format: counter

src_policy_reset

Description Src Policy Reset

Type: number

Format: counter

src_req_rate_exceed

Description Src Request Rate Exceeded

Type: number

Format: counter

src_retransmit_excd

Description Src Retransmit Exceeded

Type: number

Format: counter

src_rst_cookie_fail

Description Src RST Cookie Failed

Type: number

Format: counter

src_small_window_excd

Description Src Small-Window Exceeded

Type: number

Format: counter

src_ssl_auth_drop

Description Src SSL Auth Dropped

Type: number

Format: counter

src_syn_auth_fail

Description Src SYN Auth Failed

Type: number

Format: counter

src_syn_cookie_fail

Description Src SYN Cookie Failed

Type: number

Format: counter

src_syn_cookie_sent

Description Src SYN Cookie Sent

Type: number

Format: counter

src_syn_rate_exceed

Description Src TCP SYN Rate Exceeded

Type: number

Format: counter

src_syn_retry_blacklist

Description Src SYN Retry Timeout Blacklisted

Type: number

Format: counter

src_syn_retry_failed

Description Src SYN Retry Dropped

Type: number

Format: counter

src_syn_retry_gap_drop

Description Src SYN Retry-Gap Dropped

Type: number

Format: counter

src_syn_retry_init

Description Src SYN Retry Init

Type: number

Format: counter

src_syn_retry_reset

Description Src SYN Retry Timeout Reset

Type: number

Format: counter

src_syn_retry_rto_fail

Description Src SYN Retry RTO Dropped

Type: number

Format: counter

src_syn_retry_rto_pass

Description Src SYN Retry RTO Passed

Type: number

Format: counter

src_syn_retry_rto_progress

Description Src SYN Retry RTO Progress

Type: number

Format: counter

src_syn_retry_timeout

Description Src SYN Retry Timeout

Type: number

Format: counter

src_tcp_auth_rst

Description Src TCP Auth Reset

Type: number

Format: counter

src_unauth_drop

Description Src TCP Unauth Dropped

Type: number

Format: counter

src_well_known_port

Description Src TCP SrcPort Wellknown

Type: number

Format: counter

src_zero_window_excd

Description Src Zero-Window Exceeded

Type: number

Format: counter

ssl_auth_drop

Description SSL Auth Dropped

Type: number

Format: counter

ssl_auth_resp

Description SSL Auth Responded

Type: number

Format: counter

ssl_bad_header_drop

Description SSL Traffic Check Bad Header Dropped

Type: number

Format: counter

ssl_bad_header_forw

Description SSL Traffic Check Bad Header Forwarded

Type: number

Format: counter

ssl_port_bad_len

Description SSL Header Bad Length

Type: number

Format: counter

ssl_port_bad_ver

Description SSL Header Bad Version

Type: number

Format: counter

ssl_port_clienthello_bad_len

Description SSL ClientHello Bad Length

Type: number

Format: counter

ssl_port_clienthello_ext_bad_len

Description SSL ClientHello Extension Bad Length

Type: number

Format: counter

ssl_port_invalid_type

Description SSL Header Invalid Type

Type: number

Format: counter

ssl_port_non_tls

Description SSL Non-TLS Dropped

Type: number

Format: counter

syn_auth_fail

Description SYN Auth Failed

Type: number

Format: counter

syn_auth_pass

Description SYN Auth Passed

Type: number

Format: counter

syn_auth_rst_ack_drop

Description SYN Auth RST-ACK Dropped

Type: number

Format: counter

syn_cookie_fail

Description SYN Cookie Failed

Type: number

Format: counter

syn_cookie_sent

Description SYN Cookie Sent

Type: number

Format: counter

syn_drop

Description SYN Dropped

Type: number

Format: counter

syn_retry_blacklist

Description SYN Retry Timeout Blacklisted

Type: number

Format: counter

syn_retry_failed

Description SYN Retry Dropped

Type: number

Format: counter

syn_retry_gap_drop

Description SYN Retry-Gap Dropped

Type: number

Format: counter

syn_retry_init

Description SYN Retry Init

Type: number

Format: counter

syn_retry_pass

Description SYN Retry Passed

Type: number

Format: counter

syn_retry_reset

Description SYN Retry Timeout Reset

Type: number

Format: counter

syn_retry_rto_fail

Description SYN Retry RTO Dropped

Type: number

Format: counter

syn_retry_rto_pass

Description SYN Retry RTO Passed

Type: number

Format: counter

syn_retry_rto_progress

Description SYN Retry RTO Progress

Type: number

Format: counter

syn_retry_timeout

Description SYN Retry Timeout

Type: number

Format: counter

syn_tfo_rcv

Description SYN TFO Received

Type: number

Format: counter

synack_multiple_attempts_per_ip_detected

Description SYNACK Multiple Attempts Per IP Detected

Type: number

Format: counter

synack_reset_sent

Description SYNACK Reset Sent

Type: number

Format: counter

tcp_ack_data_drop

Description TCP ACK with Data Dropped

Type: number

Format: counter

tcp_ack_data_fwd

Description TCP ACK with Data Forward

Type: number

Format: counter

tcp_ack_data_rcvd

Description TCP ACK with Data Received

Type: number

Format: counter

tcp_ack_drop

Description TCP ACK Dropped

Type: number

Format: counter

tcp_ack_fwd

Description TCP ACK Forward

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_auth_drop

Description TCP Auth Dropped

Type: number

Format: counter

tcp_auth_drop_ack

Description TCP Auth Dropped: ACK

Type: number

Format: counter

tcp_auth_drop_ack_fail_auth

Description TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

tcp_auth_drop_ack_pass_auth

Description TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

tcp_auth_drop_ack_xmit

Description TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

tcp_auth_drop_rst

Description TCP Auth Dropped: RST

Type: number

Format: counter

tcp_auth_drop_rst_fail_auth

Description TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

tcp_auth_drop_rst_pass_auth

Description TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

tcp_auth_drop_rst_xmit

Description TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

tcp_auth_drop_syn

Description TCP Auth Dropped: SYN

Type: number

Format: counter

tcp_auth_resp

Description TCP Auth Responded

Type: number

Format: counter

tcp_auth_rst

Description TCP Auth Reset

Type: number

Format: counter

tcp_cwr_drop

Description TCP CWR Dropped

Type: number

Format: counter

tcp_cwr_fwd

Description TCP CWR Forward

Type: number

Format: counter

tcp_cwr_rcvd

Description TCP CWR Received

Type: number

Format: counter

tcp_ece_drop

Description TCP ECE Dropped

Type: number

Format: counter

tcp_ece_fwd

Description TCP ECE Forward

Type: number

Format: counter

tcp_ece_rcvd

Description TCP ECE Received

Type: number

Format: counter

tcp_empty_ack_drop

Description TCP Empty ACK Dropped

Type: number

Format: counter

tcp_empty_ack_fwd

Description TCP Empty ACK Forward

Type: number

Format: counter

tcp_empty_ack_rcvd

Description TCP Empty ACK Received

Type: number

Format: counter

tcp_fin_ack_drop

Description TCP FIN ACK Dropped

Type: number

Format: counter

tcp_fin_ack_fwd

Description TCP FIN ACK Forward

Type: number

Format: counter

tcp_fin_ack_rcvd

Description TCP FIN ACK Received

Type: number

Format: counter

tcp_fin_drop

Description TCP FIN Dropped

Type: number

Format: counter

tcp_fin_fwd

Description TCP FIN Forward

Type: number

Format: counter

tcp_fin_psh_ack_drop

Description TCP FIN PSH ACK Drop

Type: number

Format: counter

tcp_fin_psh_ack_fwd

Description TCP FIN PSH ACK Forward

Type: number

Format: counter

tcp_fin_psh_ack_rcvd

Description TCP FIN PSH ACK Received

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_psh_ack_drop

Description TCP PSH ACK Dropped

Type: number

Format: counter

tcp_psh_ack_fwd

Description TCP PSH ACK Forward

Type: number

Format: counter

tcp_psh_ack_rcvd

Description TCP PSH ACK Received

Type: number

Format: counter

tcp_psh_drop

Description TCP PSH Dropped

Type: number

Format: counter

tcp_psh_fwd

Description TCP PSH Forward

Type: number

Format: counter

tcp_psh_rcvd

Description TCP PSH Received

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP SYN Retransmit Exceeded Blacklist

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP SYN Retransmit Exceeded Drop

Type: number

Format: counter

tcp_rst_ack_drop

Description TCP RST ACK Dropped

Type: number

Format: counter

tcp_rst_ack_fwd

Description TCP RST ACK Forward

Type: number

Format: counter

tcp_rst_ack_rcvd

Description TCP RST ACK Received

Type: number

Format: counter

tcp_rst_drop

Description TCP RST Dropped

Type: number

Format: counter

tcp_rst_fwd

Description TCP RST Forward

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_syn_ack_drop

Description TCP SYN ACK Dropped

Type: number

Format: counter

tcp_syn_ack_fwd

Description TCP SYN ACK Forward

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_fwd

Description SYN Forward

Type: number

Format: counter

tcp_syn_rcvd

Description TCP Inbound SYN Received

Type: number

Format: counter

tcp_urg_drop

Description TCP URG Dropped

Type: number

Format: counter

tcp_urg_fwd

Description TCP URG Forward

Type: number

Format: counter

tcp_urg_rcvd

Description TCP URG Received

Type: number

Format: counter

unauth_drop

Description TCP Unauth Dropped

Type: number

Format: counter

virtualhost_policy_match

Description SSL Virtualhost Policy Match

Type: number

Format: counter

virtualhost_policy_not_match

Description SSL Virtualhost Policy Not Match

Type: number

Format: counter

wellknown_sport_drop

Description TCP SrcPort Wellknown

Type: number

Format: counter

zero_window_excd

Description Zero-Window Exceeded

Type: number

Format: counter

2.33.359 ddos l4-ssl stats

Statistics for the object l4-ssl

l4-ssl Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-ssl
Element URI	/axapi/v3/ddos/l4-ssl/stats
Element Attributes	l4-ssl_attributes
Partition Visibility	None
Schema	`l4-ssl schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-ssl/stats

l4-ssl attributes

Get Object

GET

/axapi/v3/ddos/l4-ssl/stats

l4-ssl attributes

Modify Object

POST

/axapi/v3/ddos/l4-ssl/stats

l4-ssl attributes

Replace Object

PUT

/axapi/v3/ddos/l4-ssl/stats

l4-ssl attributes

Delete Object

DELETE

/axapi/v3/ddos/l4-ssl/stats

l4-ssl attributes

l4-ssl attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ssl_bad_header_drop

Description SSL Traffic Check Bad Header Dropped

Type: number

Format: counter

ssl_bad_header_forw

Description SSL Traffic Check Bad Header Forwarded

Type: number

Format: counter

ssl_header_bad_len

Description SSL Header Bad Length

Type: number

Format: counter

ssl_header_bad_ver

Description SSL Header Bad Version

Type: number

Format: counter

ssl_header_invalid_type

Description SSL Header Invalid Type

Type: number

Format: counter

ssl_l4_auth_drop

Description SSL Auth Dropped

Type: number

Format: counter

ssl_l4_auth_handshake_bl

Description Auth Handshake Blacklisted

Type: number

Format: counter

ssl_l4_auth_handshake_fail

Description Auth Handshake Failed

Type: number

Format: counter

ssl_l4_auth_handshake_ok

Description Auth Handshake Success

Type: number

Format: counter

ssl_l4_auth_resp

Description SSL Auth Responded

Type: number

Format: counter

ssl_l4_do_auth_handshake

Description Do Auth Handshake

Type: number

Format: counter

ssl_l4_drop_packet

Description Packets Dropped

Type: number

Format: counter

ssl_l4_er_condition

Description Error Condition

Type: number

Format: counter

ssl_l4_handshake_timeout

Description Auth Handshake Timeout

Type: number

Format: counter

ssl_l4_is_dst_req_rate_exceed

Description Dst Request Rate Exceed Dropped

Type: number

Format: counter

ssl_l4_is_renegotiation

Description SSL Renegotiation

Type: number

Format: counter

ssl_l4_is_src_req_rate_exceed

Description Src Request Rate Exceed Dropped

Type: number

Format: counter

ssl_l4_is_ssl3

Description SSL v3

Type: number

Format: counter

ssl_l4_is_tls1_1

Description TLS v1.0

Type: number

Format: counter

ssl_l4_is_tls1_2

Description TLS v1.1

Type: number

Format: counter

ssl_l4_is_tls1_3

Description TLS v1.2

Type: number

Format: counter

ssl_l4_new_syn

Description New TCP SYN

Type: number

Format: counter

ssl_l4_policy_drop

Description Policy Dropped

Type: number

Format: counter

ssl_l4_policy_reset

Description Policy Reset

Type: number

Format: counter

ssl_l4_processed

Description Packets Processed

Type: number

Format: counter

ssl_l4_renegotiation_exceed

Description Renegotiation Exceeded

Type: number

Format: counter

ssl_l4_renegotiation_incomplete

Description Renegotiation Incomplete

Type: number

Format: counter

ssl_l4_reset_for_handshake

Description Reset While Others in Handshake

Type: number

Format: counter

ssl_non_tls

Description SSL Non-TLS Dropped

Type: number

Format: counter

2.33.360 ddos l4-ssl-zone-port stats

Statistics for the object l4-ssl-zone-port

l4-ssl-zone-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*l4-ssl-zone-port-list*
Collection URI	/axapi/v3/ddos/l4-ssl-zone-port
Element Name	l4-ssl-zone-port
Element URI	/axapi/v3/ddos/l4-ssl-zone-port/stats
Element Attributes	l4-ssl-zone-port_attributes
Partition Visibility	None
Schema	`l4-ssl-zone-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-ssl-zone-port

l4-ssl-zone-port attributes

Create List

POST

/axapi/v3/ddos/l4-ssl-zone-port

l4-ssl-zone-port attributes

Get Object

GET

/axapi/v3/ddos/l4-ssl-zone-port/stats

l4-ssl-zone-port attributes

Get List

GET

/axapi/v3/ddos/l4-ssl-zone-port

l4-ssl-zone-port-list

Modify Object

POST

/axapi/v3/ddos/l4-ssl-zone-port/stats

l4-ssl-zone-port attributes

Replace Object

PUT

/axapi/v3/ddos/l4-ssl-zone-port/stats

l4-ssl-zone-port attributes

Replace List

PUT

/axapi/v3/ddos/l4-ssl-zone-port

l4-ssl-zone-port-list

Delete Object

DELETE

/axapi/v3/ddos/l4-ssl-zone-port/stats

l4-ssl-zone-port attributes

l4-ssl-zone-port-list

l4-ssl-zone-port-list is **JSON List** of *l4-ssl-zone-port attributes*

```
l4-ssl-zone-port-list : [
        { l4-ssl-zone-port attributes },
        { l4-ssl-zone-port attributes },
        ...
    ]
```

l4-ssl-zone-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ack_auth_fail

Description ACK Retry Dropped

Type: number

Format: counter

ack_retry_blacklist

Description ACK Retry Timeout Blacklisted

Type: number

Format: counter

ack_retry_gap_drop

Description ACK Retry Retry-Gap Dropped

Type: number

Format: counter

ack_retry_init

Description ACK Retry Init

Type: number

Format: counter

ack_retry_pass

Description ACK Retry Passed

Type: number

Format: counter

ack_retry_reset

Description ACK Retry Timeout Reset

Type: number

Format: counter

ack_retry_rto_fail

Description ACK Retry RTO Dropped

Type: number

Format: counter

ack_retry_rto_pass

Description ACK Retry RTO Passed

Type: number

Format: counter

ack_retry_rto_progress

Description ACK Retry RTO Progress

Type: number

Format: counter

ack_retry_timeout

Description ACK Retry Timeout

Type: number

Format: counter

all_src_session_reset

Description Session Reset for All Src Upon Level Escalation

Type: number

Format: counter

auth_handshake_bl

Description Auth Handshake Blacklisted

Type: number

Format: counter

auth_handshake_fail

Description Auth Handshake Fail

Type: number

Format: counter

auth_handshake_success

Description Auth Handshake Success

Type: number

Format: counter

auth_handshake_timeout

Description Auth Handshake Timeout

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

cipher_suites_limit_exceed

Description SSL ClientHello Cipher Suites exceed limit

Type: number

Format: counter

clear_session_upon_deescalation

Description Clear Session Upon De-escalation to Level 0

Type: number

Format: counter

client_ext_limit_exceed

Description SSL ClientHello Client Extension exceed limit

Type: number

Format: counter

clienthello_to_appdata_timeout

Description SSL ClientHello to Application-Data timeout

Type: number

Format: counter

conn_close

Description Connections Closed

Type: number

Format: counter

conn_close_half_open

Description Half Open Connections Closed

Type: number

Format: counter

conn_close_w_fin

Description FIN Connections Closed

Type: number

Format: counter

conn_close_w_idle

Description Idle Connections Closed

Type: number

Format: counter

conn_close_w_rst

Description RST Connections Closed

Type: number

Format: counter

conn_create_from_ack

Description Connections Created From ACK

Type: number

Format: counter

conn_create_from_syn

Description Connections Created From SYN

Type: number

Format: counter

conn_create_from_synack

Description Connections Created From SYNACK

Type: number

Format: counter

conn_ofo_rate_excd

Description TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

conn_prate_excd

Description TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

conn_rexmit_rate_excd

Description TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

conn_zwindow_rate_excd

Description TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

create_conn_non_syn_dropped

Description Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

current_es_level

Description Current Escalation Level

Type: number

Format: counter

do_auth_handshake

Description Auth Handshake

Type: number

Format: counter

drop_packet

Description Packets Dropped

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

dst_hw_drop_inserted

Description Dst Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_removed

Description Dst Hardware Drop Rules Removed

Type: number

Format: counter

dst_req_rate_exceed

Description Dst Request Rate Exceeded

Type: number

Format: counter

dst_tcp_conn_half_open_timeout

Description Half Open Connections Timeout

Type: number

Format: counter

dst_tcp_conn_half_open_timeout_rst_sent

Description Half Open Connections Timeout RST Sent

Type: number

Format: counter

dst_tcp_sess_aged_rst_sent

Description Sessions Aged Out RST Sent

Type: number

Format: counter

dynamic_count_warn

Description dynamic-entry-count warning send

Type: number

Format: counter

er_condition

Description Error Condition

Type: number

Format: counter

ew_inbound_port_byte_drop

Description East-West Inbound Bytes Dropped

Type: number

Format: counter

ew_inbound_port_byte_rcv

Description East-West Inbound Bytes Recevied

Type: number

Format: counter

ew_inbound_port_byte_sent

Description East-West Inbound Bytes Forwarded

Type: number

Format: counter

ew_inbound_port_drop

Description East-West Inbound Packets Dropped

Type: number

Format: counter

ew_inbound_port_rcv

Description East-West Inbound Packets Received

Type: number

Format: counter

ew_inbound_port_sent

Description East-West Inbound Packets Forwarded

Type: number

Format: counter

ew_outbound_port_byte_drop

Description East-West Outbound Bytes Forwarded

Type: number

Format: counter

ew_outbound_port_byte_rcv

Description East-West Outbound Bytes Recevied

Type: number

Format: counter

ew_outbound_port_byte_sent

Description East-West Outbound Bytes Dropped

Type: number

Format: counter

ew_outbound_port_drop

Description East-West Outbound Packets Dropped

Type: number

Format: counter

ew_outbound_port_rcv

Description East-West Outbound Packets Received

Type: number

Format: counter

ew_outbound_port_sent

Description East-West Outbound Packets Forwarded

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action WL

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

handshake_finished_to_appdata_timeout

Description SSL Handshake finished to Application-Data timeout

Type: number

Format: counter

hybrid_auth_auth_no_match

Description SYN Auth Hybrid Auth No Match Drop

Type: number

Format: counter

hybrid_auth_auth_no_match_ack_rcv

Description SYN Auth Hybrid Auth No Match Drop: ACK Received

Type: number

Format: counter

hybrid_auth_auth_no_match_rst_rcv

Description SYN Auth Hybrid Auth No Match Drop: RST Received

Type: number

Format: counter

hybrid_auth_entry_aged_out

Description SYN Auth Hybrid Entry Aged Out

Type: number

Format: counter

hybrid_auth_filter_full

Description SYN Auth Hybrid Filter Full

Type: number

Format: counter

hybrid_auth_invalid_fail

Description SYN Auth Hybrid Invalid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_invalid_pass

Description SYN Auth Hybrid Invalid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_invalid_sa_sent

Description SYN Auth Hybrid Invalid SYNACK Sent

Type: number

Format: counter

hybrid_auth_lookup_fail

Description SYN Auth Hybrid Lookup Fail

Type: number

Format: counter

hybrid_auth_method_change

Description SYN Auth Hybrid Method Change

Type: number

Format: counter

hybrid_auth_unknown_fail

Description SYN Auth Hybrid Unknown Auth Fail

Type: number

Format: counter

hybrid_auth_unknown_pass

Description SYN Auth Hybrid Unknown Auth Pass

Type: number

Format: counter

hybrid_auth_valid_fail

Description SYN Auth Hybrid Valid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_valid_pass

Description SYN Auth Hybrid Valid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_valid_sa_sent

Description SYN Auth Hybrid Valid SYNACK Sent

Type: number

Format: counter

ip_filtering_bl

Description IP Filtering Policy: Blacklisted

Type: number

Format: counter

ip_filtering_drop

Description IP Filtering Policy: Dropped

Type: number

Format: counter

is_renegotiation

Description SSL Renegotiation

Type: number

Format: counter

is_ssl3

Description SSL v3

Type: number

Format: counter

is_tls1_0

Description TLS v1.0

Type: number

Format: counter

is_tls1_1

Description TLS v1.1

Type: number

Format: counter

is_tls1_2+

Description TLS v1.2 or higher version

Type: number

Format: counter

new_syn

Description TCP SYN

Type: number

Format: counter

no_policy_class_list_match

Description No Policy Class-list Match

Type: number

Format: counter

no_route_drop

Description No Route Dropped

Type: number

Format: counter

out_of_seq_excd

Description Out-Of-Seq Exceeded

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

policy_drop

Description Policy Dropped

Type: number

Format: counter

policy_reset

Description Policy Reset

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_src_escalation

Description Src Escalation

Type: number

Format: counter

port_syn_rate_exceed

Description TCP SYN Rate Exceeded

Type: number

Format: counter

port_synack_rate_exceed

Description TCP SYNACK Rate Exceeded

Type: number

Format: counter

processed

Description Packets Processed

Type: number

Format: counter

prog_conn_exceed_bl

Description Connection: Violation Exceed Blacklisted

Type: number

Format: counter

prog_conn_exceed_drop

Description Connection: Violation Exceed Dropped

Type: number

Format: counter

prog_conn_exceed_reset

Description Connection: Violation Exceed Reset

Type: number

Format: counter

prog_conn_rcvd_exceed

Description Connection: Received Exceed

Type: number

Format: counter

prog_conn_rcvd_sent_ratio_exceed

Description Connection: Reveived to Sent Ratio Exceed

Type: number

Format: counter

prog_conn_samples

Description Sample Collected: Connection

Type: number

Format: counter

prog_conn_samples_processed

Description Sample Processed: Connnection

Type: number

Format: counter

prog_conn_sent_exceed

Description Connection: Sent Exceed

Type: number

Format: counter

prog_conn_time_exceed

Description Connection: Time Exceed

Type: number

Format: counter

prog_exceed_bl

Description Req-Resp: Violation Exceed Blacklisted

Type: number

Format: counter

prog_exceed_drop

Description Req-Resp: Violation Exceed Dropped

Type: number

Format: counter

prog_exceed_reset

Description Req-Resp: Violation Exceed Reset

Type: number

Format: counter

prog_first_req_time_exceed

Description Req-Resp: First Request Time Exceed

Type: number

Format: counter

prog_query_exceed

Description Req-Resp: Client Query Time Exceed

Type: number

Format: counter

prog_req_resp_time_exceed

Description Req-Resp: Request to Response Time Exceed

Type: number

Format: counter

prog_req_samples

Description Sample Collected: Req-Resp

Type: number

Format: counter

prog_req_samples_processed

Description Sample Processed: Req-Resp

Type: number

Format: counter

prog_request_len_exceed

Description Req-Resp: Request Length Exceed

Type: number

Format: counter

prog_resp_pkt_rate_exceed

Description Req-Resp: Response Packet Rate Exceed

Type: number

Format: counter

prog_resp_req_time_exceed

Description Req-Resp: Response to Request Time Exceed

Type: number

Format: counter

prog_response_len_exceed

Description Req-Resp: Response Length Exceed

Type: number

Format: counter

prog_think_exceed

Description Req-Resp: Server Think Time Exceed

Type: number

Format: counter

prog_win_exceed_bl

Description Time Window: Violation Exceed Blacklisted

Type: number

Format: counter

prog_win_exceed_drop

Description Time Window: Violation Exceed Dropped

Type: number

Format: counter

prog_win_exceed_reset

Description Time Window: Violation Exceed Reset

Type: number

Format: counter

prog_win_rcvd_exceed

Description Time Window: Received Exceed

Type: number

Format: counter

prog_win_rcvd_sent_ratio_exceed

Description Time Window: Received to Sent Exceed

Type: number

Format: counter

prog_win_samples

Description Sample Collected: Time Window

Type: number

Format: counter

prog_win_samples_processed

Description Sample Processed: Time Window

Type: number

Format: counter

prog_win_sent_exceed

Description Time Window: Sent Exceed

Type: number

Format: counter

renegotiation_exceed

Description Renegotiation Exceeded

Type: number

Format: counter

renegotiation_incomplete

Description Renegotiation Incomplete

Type: number

Format: counter

reset_while_other_in_handshake

Description Reset While Others in Handshake

Type: number

Format: counter

retransmit_excd

Description Retransmit Exceeded

Type: number

Format: counter

rst_cookie_fail

Description RST Cookie Failed

Type: number

Format: counter

same_sport_dport_drop

Description Same Source and Destination Port Drop

Type: number

Format: counter

secondary_port_conn_limm_exceed

Description Per Addr-Port Conn Limit Exceeded

Type: number

Format: counter

secondary_port_conn_rate_exceed

Description Per Addr-Port Conn Rate Exceeded

Type: number

Format: counter

secondary_port_hit

Description Per Addr-Port Hit

Type: number

Format: counter

secondary_port_kbit_rate_exceed

Description Per Addr-Port KiBit Rate Exceeded

Type: number

Format: counter

secondary_port_kbit_rate_exceed_pkt

Description Per Addr-Port KiBit Rate Exceeded Count

Type: number

Format: counter

secondary_port_pkt_rate_exceed

Description Per Addr-Port Packet Rate Exceeded

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

small_window_excd

Description Small-Window Exceeded

Type: number

Format: counter

small_window_rcv

Description Small-Window Receive

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

src_ack_auth_fail

Description Src ACK Retry Dropped

Type: number

Format: counter

src_ack_retry_blacklist

Description Src ACK Retry Timeout Blacklisted

Type: number

Format: counter

src_ack_retry_gap_drop

Description Src ACK Retry Retry-Gap Dropped

Type: number

Format: counter

src_ack_retry_init

Description Src ACK Retry Init

Type: number

Format: counter

src_ack_retry_reset

Description Src ACK Retry Timeout Reset

Type: number

Format: counter

src_ack_retry_rto_fail

Description Src ACK Retry RTO Dropped

Type: number

Format: counter

src_ack_retry_rto_pass

Description Src ACK Retry RTO Passed

Type: number

Format: counter

src_ack_retry_rto_progress

Description Src ACK Retry RTO Progress

Type: number

Format: counter

src_ack_retry_timeout

Description Src ACK Retry Timeout

Type: number

Format: counter

src_auth_drop

Description Src TCP Auth Dropped

Type: number

Format: counter

src_auth_drop_ack

Description Src TCP Auth Dropped: ACK

Type: number

Format: counter

src_auth_drop_ack_fail_auth

Description Src TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

src_auth_drop_ack_pass_auth

Description Src TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

src_auth_drop_ack_xmit

Description Src TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

src_auth_drop_rst

Description Src TCP Auth Dropped: RST

Type: number

Format: counter

src_auth_drop_rst_fail_auth

Description Src TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

src_auth_drop_rst_pass_auth

Description Src TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

src_auth_drop_rst_xmit

Description Src TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

src_auth_drop_syn

Description Src TCP Auth Dropped: SYN

Type: number

Format: counter

src_conn_ofo_rate_excd

Description Src TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_conn_rexmit_rate_excd

Description Src TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

src_conn_zwindow_rate_excd

Description Src TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

src_create_conn_non_syn_dropped

Description Src Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_drop_packet

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_handshaking_conn_exceed

Description SSL Src-handshake connection exceed limit

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_hw_drop_inserted

Description Src Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_removed

Description Src Hardware Drop Rules Removed

Type: number

Format: counter

src_learn_overflow

Description Source Dynamic Entry Overflow

Type: number

Format: counter

src_out_of_seq_excd

Description Src Out-Of-Seq Exceeded

Type: number

Format: counter

src_policy_reset

Description Src Policy Reset

Type: number

Format: counter

src_req_rate_exceed

Description Src Request Rate Exceeded

Type: number

Format: counter

src_retransmit_excd

Description Src Retransmit Exceeded

Type: number

Format: counter

src_rst_cookie_fail

Description Src RST Cookie Failed

Type: number

Format: counter

src_small_window_excd

Description Src Small-Window Exceeded

Type: number

Format: counter

src_ssl_auth_drop

Description Src SSL Auth Dropped

Type: number

Format: counter

src_syn_auth_fail

Description Src SYN Auth Failed

Type: number

Format: counter

src_syn_cookie_fail

Description Src SYN Cookie Failed

Type: number

Format: counter

src_syn_cookie_sent

Description Src SYN Cookie Sent

Type: number

Format: counter

src_syn_rate_exceed

Description Src TCP SYN Rate Exceeded

Type: number

Format: counter

src_syn_retry_blacklist

Description Src SYN Retry Timeout Blacklisted

Type: number

Format: counter

src_syn_retry_failed

Description Src SYN Retry Dropped

Type: number

Format: counter

src_syn_retry_gap_drop

Description Src SYN Retry-Gap Dropped

Type: number

Format: counter

src_syn_retry_init

Description Src SYN Retry Init

Type: number

Format: counter

src_syn_retry_reset

Description Src SYN Retry Timeout Reset

Type: number

Format: counter

src_syn_retry_rto_fail

Description Src SYN Retry RTO Dropped

Type: number

Format: counter

src_syn_retry_rto_pass

Description Src SYN Retry RTO Passed

Type: number

Format: counter

src_syn_retry_rto_progress

Description Src SYN Retry RTO Progress

Type: number

Format: counter

src_syn_retry_timeout

Description Src SYN Retry Timeout

Type: number

Format: counter

src_tcp_auth_rst

Description Src TCP Auth Reset

Type: number

Format: counter

src_unauth_drop

Description Src TCP Unauth Dropped

Type: number

Format: counter

src_well_known_port

Description Src TCP SrcPort Wellknown

Type: number

Format: counter

src_zero_window_excd

Description Src Zero-Window Exceeded

Type: number

Format: counter

src_zone_service_entry_aged

Description SrcZoneService Entry Aged

Type: number

Format: counter

src_zone_service_entry_hit

Description SrcZoneService Entry Hit

Type: number

Format: counter

src_zone_service_entry_learned

Description SrcZoneService Entry Learned

Type: number

Format: counter

ssl_auth_drop

Description SSL Auth Dropped

Type: number

Format: counter

ssl_auth_resp

Description SSL Auth Responded

Type: number

Format: counter

ssl_bad_header_drop

Description SSL Traffic Check Bad Header Dropped

Type: number

Format: counter

ssl_bad_header_forw

Description SSL Traffic Check Bad Header Forwarded

Type: number

Format: counter

ssl_port_bad_len

Description SSL Header Bad Length

Type: number

Format: counter

ssl_port_bad_ver

Description SSL Header Bad Version

Type: number

Format: counter

ssl_port_clienthello_bad_len

Description SSL ClientHello Bad Length

Type: number

Format: counter

ssl_port_clienthello_ext_bad_len

Description SSL ClientHello Extension Bad Length

Type: number

Format: counter

ssl_port_invalid_type

Description SSL Header Invalid Type

Type: number

Format: counter

ssl_port_non_tls

Description SSL Non-TLS Dropped

Type: number

Format: counter

syn_auth_fail

Description SYN Auth Failed

Type: number

Format: counter

syn_auth_pass

Description SYN Auth Passed

Type: number

Format: counter

syn_auth_rst_ack_drop

Description SYN Auth RST-ACK Dropped

Type: number

Format: counter

syn_cookie_fail

Description SYN Cookie Failed

Type: number

Format: counter

syn_cookie_sent

Description SYN Cookie Sent

Type: number

Format: counter

syn_drop

Description SYN Dropped

Type: number

Format: counter

syn_retry_blacklist

Description SYN Retry Timeout Blacklisted

Type: number

Format: counter

syn_retry_failed

Description SYN Retry Dropped

Type: number

Format: counter

syn_retry_gap_drop

Description SYN Retry-Gap Dropped

Type: number

Format: counter

syn_retry_init

Description SYN Retry Init

Type: number

Format: counter

syn_retry_pass

Description SYN Retry Passed

Type: number

Format: counter

syn_retry_reset

Description SYN Retry Timeout Reset

Type: number

Format: counter

syn_retry_rto_fail

Description SYN Retry RTO Dropped

Type: number

Format: counter

syn_retry_rto_pass

Description SYN Retry RTO Passed

Type: number

Format: counter

syn_retry_rto_progress

Description SYN Retry RTO Progress

Type: number

Format: counter

syn_retry_timeout

Description SYN Retry Timeout

Type: number

Format: counter

syn_tfo_rcv

Description SYN TFO Received

Type: number

Format: counter

synack_multiple_attempts_per_ip_detected

Description SYNACK Multiple Attempts Per IP Detected

Type: number

Format: counter

synack_reset_sent

Description SYNACK Reset Sent

Type: number

Format: counter

tcp_ack_data_drop

Description TCP ACK with Data Dropped

Type: number

Format: counter

tcp_ack_data_fwd

Description TCP ACK with Data Forward

Type: number

Format: counter

tcp_ack_data_rcvd

Description TCP ACK with Data Received

Type: number

Format: counter

tcp_ack_drop

Description TCP ACK Dropped

Type: number

Format: counter

tcp_ack_fwd

Description TCP ACK Forward

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_auth_drop

Description TCP Auth Dropped

Type: number

Format: counter

tcp_auth_drop_ack

Description TCP Auth Dropped: ACK

Type: number

Format: counter

tcp_auth_drop_ack_fail_auth

Description TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

tcp_auth_drop_ack_pass_auth

Description TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

tcp_auth_drop_ack_xmit

Description TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

tcp_auth_drop_rst

Description TCP Auth Dropped: RST

Type: number

Format: counter

tcp_auth_drop_rst_fail_auth

Description TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

tcp_auth_drop_rst_pass_auth

Description TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

tcp_auth_drop_rst_xmit

Description TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

tcp_auth_drop_syn

Description TCP Auth Dropped: SYN

Type: number

Format: counter

tcp_auth_resp

Description TCP Auth Responded

Type: number

Format: counter

tcp_auth_rst

Description TCP Auth Reset

Type: number

Format: counter

tcp_cwr_drop

Description TCP CWR Dropped

Type: number

Format: counter

tcp_cwr_fwd

Description TCP CWR Forward

Type: number

Format: counter

tcp_cwr_rcvd

Description TCP CWR Received

Type: number

Format: counter

tcp_ece_drop

Description TCP ECE Dropped

Type: number

Format: counter

tcp_ece_fwd

Description TCP ECE Forward

Type: number

Format: counter

tcp_ece_rcvd

Description TCP ECE Received

Type: number

Format: counter

tcp_empty_ack_drop

Description TCP Empty ACK Dropped

Type: number

Format: counter

tcp_empty_ack_fwd

Description TCP Empty ACK Forward

Type: number

Format: counter

tcp_empty_ack_rcvd

Description TCP Empty ACK Received

Type: number

Format: counter

tcp_fin_ack_drop

Description TCP FIN ACK Dropped

Type: number

Format: counter

tcp_fin_ack_fwd

Description TCP FIN ACK Forward

Type: number

Format: counter

tcp_fin_ack_rcvd

Description TCP FIN ACK Received

Type: number

Format: counter

tcp_fin_drop

Description TCP FIN Dropped

Type: number

Format: counter

tcp_fin_fwd

Description TCP FIN Forward

Type: number

Format: counter

tcp_fin_psh_ack_drop

Description TCP FIN PSH ACK Drop

Type: number

Format: counter

tcp_fin_psh_ack_fwd

Description TCP FIN PSH ACK Forward

Type: number

Format: counter

tcp_fin_psh_ack_rcvd

Description TCP FIN PSH ACK Received

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_psh_ack_drop

Description TCP PSH ACK Dropped

Type: number

Format: counter

tcp_psh_ack_fwd

Description TCP PSH ACK Forward

Type: number

Format: counter

tcp_psh_ack_rcvd

Description TCP PSH ACK Received

Type: number

Format: counter

tcp_psh_drop

Description TCP PSH Dropped

Type: number

Format: counter

tcp_psh_fwd

Description TCP PSH Forward

Type: number

Format: counter

tcp_psh_rcvd

Description TCP PSH Received

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP SYN Retransmit Exceeded Blacklist

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP SYN Retransmit Exceeded Drop

Type: number

Format: counter

tcp_rst_ack_drop

Description TCP RST ACK Dropped

Type: number

Format: counter

tcp_rst_ack_fwd

Description TCP RST ACK Forward

Type: number

Format: counter

tcp_rst_ack_rcvd

Description TCP RST ACK Received

Type: number

Format: counter

tcp_rst_drop

Description TCP RST Dropped

Type: number

Format: counter

tcp_rst_fwd

Description TCP RST Forward

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_syn_ack_drop

Description TCP SYN ACK Dropped

Type: number

Format: counter

tcp_syn_ack_fwd

Description TCP SYN ACK Forward

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_fwd

Description SYN Forward

Type: number

Format: counter

tcp_syn_rcvd

Description TCP Inbound SYN Received

Type: number

Format: counter

tcp_urg_drop

Description TCP URG Dropped

Type: number

Format: counter

tcp_urg_fwd

Description TCP URG Forward

Type: number

Format: counter

tcp_urg_rcvd

Description TCP URG Received

Type: number

Format: counter

unauth_drop

Description TCP Unauth Dropped

Type: number

Format: counter

unauth_src_session_reset

Description Session Reset for Unauthenticated Src

Type: number

Format: counter

virtualhost_policy_match

Description SSL Virtualhost Policy Match

Type: number

Format: counter

virtualhost_policy_not_match

Description SSL Virtualhost Policy Not Match

Type: number

Format: counter

wellknown_sport_drop

Description TCP SrcPort Wellknown

Type: number

Format: counter

zero_window_excd

Description Zero-Window Exceeded

Type: number

Format: counter

2.33.361 ddos l4-sync

sync counters

l4-sync Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-sync
Element URI	/axapi/v3/ddos/l4-sync
Element Attributes	l4-sync_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/l4-sync/stats
Schema	`l4-sync schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-sync

l4-sync attributes

Get Object

GET

/axapi/v3/ddos/l4-sync

l4-sync attributes

Modify Object

POST

/axapi/v3/ddos/l4-sync

l4-sync attributes

Replace Object

PUT

/axapi/v3/ddos/l4-sync

l4-sync attributes

Delete Object

DELETE

/axapi/v3/ddos/l4-sync

l4-sync attributes

l4-sync attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.362 ddos l4-sync stats

Statistics for the object l4-sync

l4-sync Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-sync
Element URI	/axapi/v3/ddos/l4-sync/stats
Element Attributes	l4-sync_attributes
Partition Visibility	None
Schema	`l4-sync schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-sync/stats

l4-sync attributes

Get Object

GET

/axapi/v3/ddos/l4-sync/stats

l4-sync attributes

Modify Object

POST

/axapi/v3/ddos/l4-sync/stats

l4-sync attributes

Replace Object

PUT

/axapi/v3/ddos/l4-sync/stats

l4-sync attributes

Delete Object

DELETE

/axapi/v3/ddos/l4-sync/stats

l4-sync attributes

l4-sync attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

sync_dst_rcv

Description Sync Dst Received

Type: number

Format: counter

sync_dst_sent

Description Sync Dst Sent

Type: number

Format: counter

sync_hello_rcv

Description Sync Hello Received

Type: number

Format: counter

sync_hello_sent

Description Sync Hello Sent

Type: number

Format: counter

sync_rcv_entry_conflict_static

Description Sync Received Entry Conflict Static

Type: number

Format: counter

sync_rcv_entry_create_fail

Description Sync Received Entry Create Failed

Type: number

Format: counter

sync_rcv_entry_unk

Description Sync Received Unknown Entry

Type: number

Format: counter

sync_rcv_entry_unk_subtype

Description Sync Received Entry Unknown Subtype

Type: number

Format: counter

sync_rcv_fail

Description Sync Received Failed

Type: number

Format: counter

sync_rcv_hello_unk_peer

Description Sync Received Hello Unknown Peer

Type: number

Format: counter

sync_rcv_hello_unk_subtype

Description Sync Received Hello Unknown Subtype

Type: number

Format: counter

sync_rcv_unk_msg

Description Sync Received Unknown Msg

Type: number

Format: counter

sync_sent_fail

Description Sync Sent Failed

Type: number

Format: counter

sync_sent_no_peer

Description Sync Sent No Peer

Type: number

Format: counter

sync_src_bl_rcvd

Description Sync Received Src Blacklisted

Type: number

Format: counter

sync_src_bl_sent

Description Sync Sent Src Blacklisted

Type: number

Format: counter

sync_src_dns_tcp_auth_rcvd

Description Sync Received Src DNS Force-TCP Authenticated

Type: number

Format: counter

sync_src_dns_tcp_auth_sent

Description Sync Sent Src DNS Force-TCP Authenticated

Type: number

Format: counter

sync_src_dns_udp_auth_rcvd

Description Sync Received Src DNS UDP Authenticated

Type: number

Format: counter

sync_src_dns_udp_auth_sent

Description Sync Sent Src DNS UDP Authenticated

Type: number

Format: counter

sync_src_dst_bl_rcvd

Description Sync Received SrcDst Blacklisted

Type: number

Format: counter

sync_src_dst_bl_sent

Description Sync Sent SrcDst Blacklisted

Type: number

Format: counter

sync_src_dst_dns_tcp_auth_rcvd

Description Sync Received SrcDst DNS Force-TCP Authenticated

Type: number

Format: counter

sync_src_dst_dns_tcp_auth_sent

Description Sync Sent SrcDst DNS Force-TCP Authenticated

Type: number

Format: counter

sync_src_dst_dns_udp_auth_rcvd

Description Sync Received SrcDst DNS UDP Authenticated

Type: number

Format: counter

sync_src_dst_dns_udp_auth_sent

Description Sync Sent SrcDst DNS UDP Authenticated

Type: number

Format: counter

sync_src_dst_icmp_wl_rcvd

Description Sync Received SrcDst ICMP Authenticated

Type: number

Format: counter

sync_src_dst_icmp_wl_sent

Description Sync Sent SrcDst ICMP Authenticated

Type: number

Format: counter

sync_src_dst_no_dst_drop

Description Sync SrcDst No-Dst

Type: number

Format: counter

sync_src_dst_other_wl_rcvd

Description Sync Received SrcDst OTHER Authenticated

Type: number

Format: counter

sync_src_dst_other_wl_sent

Description Sync Sent SrcDst OTHER Authenticated

Type: number

Format: counter

sync_src_dst_rcv

Description Sync SrcDst Received

Type: number

Format: counter

sync_src_dst_sent

Description Sync SrcDst Sent

Type: number

Format: counter

sync_src_dst_tcp_wl_rcvd

Description Sync Received SrcDst TCP Authenticated

Type: number

Format: counter

sync_src_dst_tcp_wl_sent

Description Sync Sent SrcDst TCP Authenticated

Type: number

Format: counter

sync_src_dst_udp_wl_rcvd

Description Sync Received SrcDst UDP Authenticated

Type: number

Format: counter

sync_src_dst_udp_wl_sent

Description Sync Sent SrcDst UDP Authenticated

Type: number

Format: counter

sync_src_icmp_wl_rcvd

Description Sync Received Src ICMP Authenticated

Type: number

Format: counter

sync_src_icmp_wl_sent

Description Sync Sent Src ICMP Authenticated

Type: number

Format: counter

sync_src_other_wl_rcvd

Description Sync Received Src OTHER Authenticated

Type: number

Format: counter

sync_src_other_wl_sent

Description Sync Sent Src OTHER Authenticated

Type: number

Format: counter

sync_src_rcv

Description Sync Src Received

Type: number

Format: counter

sync_src_sent

Description Sync Src Sent

Type: number

Format: counter

sync_src_tcp_wl_rcvd

Description Sync Received Src TCP Authenticated

Type: number

Format: counter

sync_src_tcp_wl_sent

Description Sync Sent Src TCP Authenticated

Type: number

Format: counter

sync_src_udp_wl_rcvd

Description Sync Received Src UDP Authenticated

Type: number

Format: counter

sync_src_udp_wl_sent

Description Sync Sent Src UDP Authenticated

Type: number

Format: counter

sync_szp_bl_rcvd

Description Sync Received SrcZoneService Blacklist

Type: number

Format: counter

sync_szp_bl_sent

Description Sync Sent SrcZoneService Blacklist

Type: number

Format: counter

sync_szp_dns_tcp_auth_rcvd

Description Sync Received SrcZoneService DNS Force-TCP Authenticated

Type: number

Format: counter

sync_szp_dns_tcp_auth_sent

Description Sync Sent SrcZoneService DNS Force-TCP Authenticated

Type: number

Format: counter

sync_szp_dns_udp_auth_rcvd

Description Sync Received SrcZoneService DNS UDP Authenticated

Type: number

Format: counter

sync_szp_dns_udp_auth_sent

Description Sync Sent SrcZoneService DNS UDP Authenticated

Type: number

Format: counter

sync_szp_icmp_auth_rcvd

Description Sync Received SrcZoneService ICMP Authenticated

Type: number

Format: counter

sync_szp_icmp_auth_sent

Description Sync Sent SrcZoneService ICMP Authenticated

Type: number

Format: counter

sync_szp_no_dst_drop

Description Sync SrcZoneService No-Dst

Type: number

Format: counter

sync_szp_other_auth_rcvd

Description Sync Received SrcZoneService OTHER Authenticated

Type: number

Format: counter

sync_szp_other_auth_sent

Description Sync Sent SrcZoneService OTHER Authenticated

Type: number

Format: counter

sync_szp_rcv

Description Sync SrcZoneService Received

Type: number

Format: counter

sync_szp_sent

Description Sync SrcZoneService Sent

Type: number

Format: counter

sync_szp_tcp_auth_rcvd

Description Sync Received SrcZoneService TCP Authenticated

Type: number

Format: counter

sync_szp_tcp_auth_sent

Description Sync Sent SrcZoneService TCP Authenticated

Type: number

Format: counter

sync_szp_udp_auth_rcvd

Description Sync Received SrcZoneService UDP Authenticated

Type: number

Format: counter

sync_szp_udp_auth_sent

Description Sync Sent SrcZoneService UDP Authenticated

Type: number

Format: counter

2.33.363 ddos l4-tcp

l4 tcp counters

l4-tcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-tcp
Element URI	/axapi/v3/ddos/l4-tcp
Element Attributes	l4-tcp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/l4-tcp/stats
Schema	`l4-tcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-tcp

l4-tcp attributes

Get Object

GET

/axapi/v3/ddos/l4-tcp

l4-tcp attributes

Modify Object

POST

/axapi/v3/ddos/l4-tcp

l4-tcp attributes

Replace Object

PUT

/axapi/v3/ddos/l4-tcp

l4-tcp attributes

Delete Object

DELETE

/axapi/v3/ddos/l4-tcp

l4-tcp attributes

l4-tcp attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.364 ddos l4-tcp stats

Statistics for the object l4-tcp

l4-tcp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-tcp
Element URI	/axapi/v3/ddos/l4-tcp/stats
Element Attributes	l4-tcp_attributes
Partition Visibility	None
Schema	`l4-tcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-tcp/stats

l4-tcp attributes

Get Object

GET

/axapi/v3/ddos/l4-tcp/stats

l4-tcp attributes

Modify Object

POST

/axapi/v3/ddos/l4-tcp/stats

l4-tcp attributes

Replace Object

PUT

/axapi/v3/ddos/l4-tcp/stats

l4-tcp attributes

Delete Object

DELETE

/axapi/v3/ddos/l4-tcp/stats

l4-tcp attributes

l4-tcp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dst_tcp_filter_action_blacklist

Description Dst Filter Action Blacklist

Type: number

Format: counter

dst_tcp_filter_action_default_pass

Description Dst Filter Action Default Pass

Type: number

Format: counter

dst_tcp_filter_action_drop

Description Dst Filter Action Drop

Type: number

Format: counter

dst_tcp_filter_action_whitelist

Description Dst Filter Action WL

Type: number

Format: counter

dst_tcp_filter_match

Description Dst Filter Match

Type: number

Format: counter

dst_tcp_filter_not_match

Description Dst Filter No Match

Type: number

Format: counter

hybrid_syn_auth_auth_no_match

Description SYN Auth Hybrid Auth no match

Type: number

Format: counter

hybrid_syn_auth_entry_aged_out

Description SYN Auth Hybrid Entry Aged Out

Type: number

Format: counter

hybrid_syn_auth_filter_full

Description SYN Auth Hybrid Filter Full

Type: number

Format: counter

hybrid_syn_auth_invalid_fail

Description SYN Auth Hybrid Invalid SYNACK Auth Fail

Type: number

Format: counter

hybrid_syn_auth_invalid_pass

Description SYN Auth Hybrid Invalid SYNACK Auth Pass

Type: number

Format: counter

hybrid_syn_auth_invalid_sa_sent

Description SYN Auth Hybrid Invalid SYNACK Sent

Type: number

Format: counter

hybrid_syn_auth_lookup_fail

Description SYN Auth Hybrid Lookup Fail

Type: number

Format: counter

hybrid_syn_auth_method_change

Description SYN Auth Hybrid Method Change

Type: number

Format: counter

hybrid_syn_auth_unknown_fail

Description SYN Auth Hybrid Unknown Auth Fail

Type: number

Format: counter

hybrid_syn_auth_unknown_pass

Description SYN Auth Hybrid Unknown Auth Pass

Type: number

Format: counter

hybrid_syn_auth_valid_fail

Description SYN Auth Hybrid Valid SYNACK Auth Fail

Type: number

Format: counter

hybrid_syn_auth_valid_pass

Description SYN Auth Hybrid Valid SYNACK Auth Pass

Type: number

Format: counter

hybrid_syn_auth_valid_sa_sent

Description SYN Auth Hybrid Valid SYNACK Sent

Type: number

Format: counter

intcp

Description TCP Total Packets Received

Type: number

Format: counter

src_dst_tcp_filter_action_blacklist

Description SrcDst Filter Action Blacklist

Type: number

Format: counter

src_dst_tcp_filter_action_default_pass

Description SrcDst Filter Action Default Pass

Type: number

Format: counter

src_dst_tcp_filter_action_drop

Description SrcDst Filter Action Drop

Type: number

Format: counter

src_dst_tcp_filter_action_whitelist

Description SrcDst Filter Action WL

Type: number

Format: counter

src_dst_tcp_filter_match

Description SrcDst Filter Match

Type: number

Format: counter

src_dst_tcp_filter_not_match

Description SrcDst Filter No Match

Type: number

Format: counter

src_tcp_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_tcp_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_tcp_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_tcp_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_tcp_filter_match

Description Src Filter Match

Type: number

Format: counter

src_tcp_filter_not_match

Description Src Filter No Match

Type: number

Format: counter

syn_auth_pass

Description TCP SYN Auth Passed

Type: number

Format: counter

syn_auth_pass_wl

Description TCP SYN Auth Pass WL

Type: number

Format: counter

syn_auth_skip

Description TCP SYN Auth Skipped

Type: number

Format: counter

tcp_ack_no_syn

Description TCP ACK No SYN

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_action_on_ack_bl

Description TCP ACK Retry Timeout Blacklisted

Type: number

Format: counter

tcp_action_on_ack_failed

Description TCP ACK Retry Dropped

Type: number

Format: counter

tcp_action_on_ack_gap_drop

Description TCP ACK Retry Retry-Gap Dropped

Type: number

Format: counter

tcp_action_on_ack_gap_pass

Description TCP ACK Retry Retry-Gap Passed

Type: number

Format: counter

tcp_action_on_ack_matched

Description TCP ACK Retry Matched

Type: number

Format: counter

tcp_action_on_ack_passed

Description TCP ACK Retry Passed

Type: number

Format: counter

tcp_action_on_ack_reset

Description TCP ACK Retry Timeout Reset

Type: number

Format: counter

tcp_action_on_ack_start

Description TCP ACK Retry Init

Type: number

Format: counter

tcp_action_on_ack_timeout

Description TCP ACK Retry Timeout

Type: number

Format: counter

tcp_action_on_syn_bl

Description TCP SYN Retry Timeout Blacklisted

Type: number

Format: counter

tcp_action_on_syn_failed

Description TCP SYN Retry Dropped

Type: number

Format: counter

tcp_action_on_syn_gap_drop

Description TCP SYN Retry Retry-Gap Dropped

Type: number

Format: counter

tcp_action_on_syn_gap_pass

Description TCP SYN Retry Retry-Gap Passed

Type: number

Format: counter

tcp_action_on_syn_passed

Description TCP SYN Retry Passed

Type: number

Format: counter

tcp_action_on_syn_reset

Description TCP SYN Retry Timeout Reset

Type: number

Format: counter

tcp_action_on_syn_start

Description TCP SYN Retry Init

Type: number

Format: counter

tcp_action_on_syn_timeout

Description TCP SYN Retry Timeout

Type: number

Format: counter

tcp_any_exceed

Description TCP Exceeded

Type: number

Format: counter

tcp_auth_drop

Description TCP Auth Dropped

Type: number

Format: counter

tcp_auth_resp

Description TCP Auth Responded

Type: number

Format: counter

tcp_auth_rst

Description TCP Auth Reset

Type: number

Format: counter

tcp_concurrent

Description TCP Concurrent Port Access

Type: number

Format: counter

tcp_drop_bl

Description TCP Blacklist Packets Dropped

Type: number

Format: counter

tcp_drop_black_user_cfg_src

Description TCP Src Blacklist User Packets Dropped

Type: number

Format: counter

tcp_drop_black_user_cfg_src_dst

Description TCP SrcDst Blacklist User Packets Dropped

Type: number

Format: counter

tcp_dst_drop

Description TCP Dst Packets Dropped

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_frag_drop

Description TCP Frag Dropped

Type: number

Format: counter

tcp_frag_rcvd

Description TCP Frag Received

Type: number

Format: counter

tcp_invalid_syn_rcvd

Description TCP Invalid SYN Received

Type: number

Format: counter

tcp_invalid_synack_rcvd

Description TCP Invalid SYNACK Received

Type: number

Format: counter

tcp_out_of_seq

Description TCP Out-Of-Seq Total

Type: number

Format: counter

tcp_out_of_seq_bl

Description TCP Out-Of-Seq Blacklisted

Type: number

Format: counter

tcp_out_of_seq_drop

Description TCP Out-Of-Seq Dropped

Type: number

Format: counter

tcp_outrst

Description TCP Outbound RST

Type: number

Format: counter

tcp_per_conn_ofo_rate_exceed_bl

Description TCP Conn Out-Of-Seq Rate Blacklisted

Type: number

Format: counter

tcp_per_conn_ofo_rate_exceed_drop

Description TCP Conn Out-Of-Seq Rate Dropped

Type: number

Format: counter

tcp_per_conn_prate_exceed

Description TCP Conn Pkt Rate Dropped

Type: number

Format: counter

tcp_per_conn_prate_exceed_bl

Description TCP Conn Pkt Rate Blacklisted

Type: number

Format: counter

tcp_per_conn_rexmit_rate_exceed_bl

Description TCP Conn Retransmit Rate Blacklisted

Type: number

Format: counter

tcp_per_conn_rexmit_rate_exceed_drop

Description TCP Conn Retransmit Rate Dropped

Type: number

Format: counter

tcp_per_conn_zwindow_rate_exceed_bl

Description TCP Conn Zero-Window Rate Blacklisted

Type: number

Format: counter

tcp_per_conn_zwindow_rate_exceed_drop

Description TCP Conn Zero-Window Rate Dropped

Type: number

Format: counter

tcp_port_zero_drop

Description TCP Port 0 Packets Dropped

Type: number

Format: counter

tcp_progression_violation_exceed

Description Progression: Violation Exceeded

Type: number

Format: counter

tcp_progression_violation_exceed_bl

Description Progression: Violation Exceeded Blacklisted

Type: number

Format: counter

tcp_progression_violation_exceed_drop

Description Progression: Violation Exceeded Dropped

Type: number

Format: counter

tcp_progression_violation_exceed_reset

Description Progression: Violation Exceeded Reset

Type: number

Format: counter

tcp_reset_client

Description TCP Reset Client

Type: number

Format: counter

tcp_reset_server

Description TCP Reset Server

Type: number

Format: counter

tcp_retransmit

Description TCP Retransmit Total

Type: number

Format: counter

tcp_retransmit_bl

Description TCP Retransmit Blacklisted

Type: number

Format: counter

tcp_retransmit_drop

Description TCP Retransmit Dropped

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP Retransmit SYN Exceed Blacklisted

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP Retransmit SYN Exceed Dropped

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_sess_create

Description TCP Sessions Created

Type: number

Format: counter

tcp_small_window

Description TCP Small-Window Total

Type: number

Format: counter

tcp_small_window_bl

Description TCP Small-Window Blacklisted

Type: number

Format: counter

tcp_small_window_drop

Description TCP Small-Window Dropped

Type: number

Format: counter

tcp_src_drop

Description TCP Src Packets Dropped

Type: number

Format: counter

tcp_src_dst_drop

Description TCP SrcDst Packets Dropped

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_rate

Description TCP SYN Rate Per Sec

Type: number

Format: counter

tcp_syn_rcvd

Description TCP SYN Received

Type: number

Format: counter

tcp_syn_tfo_rcvd

Description TCP SYN TFO Received

Type: number

Format: counter

tcp_syncookie_check_fail

Description TCP SYN Cookie Check Failed

Type: number

Format: counter

tcp_syncookie_fail_bl

Description TCP SYN Cookie Blacklist Failed

Type: number

Format: counter

tcp_syncookie_hw_missing

Description TCP SYN Cookie HW Missed

Type: number

Format: counter

tcp_syncookie_pass

Description TCP SYN Cookie Passed

Type: number

Format: counter

tcp_syncookie_sent

Description TCP SYN Cookie Sent

Type: number

Format: counter

tcp_syncookie_sent_fail

Description TCP SYN Cookie Send Failed

Type: number

Format: counter

tcp_total_bytes_drop

Description TCP Total Bytes Dropped

Type: number

Format: counter

tcp_total_bytes_rcv

Description TCP Total Bytes Received

Type: number

Format: counter

tcp_total_drop

Description TCP Total Packets Dropped

Type: number

Format: counter

tcp_unauth_rst_drop

Description TCP Unauth RST Dropped

Type: number

Format: counter

tcp_zero_window

Description TCP Zero-Window Total

Type: number

Format: counter

tcp_zero_window_bl

Description TCP Zero-Window Blacklisted

Type: number

Format: counter

tcp_zero_window_drop

Description TCP Zero-Window Dropped

Type: number

Format: counter

2.33.365 ddos l4-udp

l4 udp counters

l4-udp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-udp
Element URI	/axapi/v3/ddos/l4-udp
Element Attributes	l4-udp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/l4-udp/stats
Schema	`l4-udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-udp

l4-udp attributes

Get Object

GET

/axapi/v3/ddos/l4-udp

l4-udp attributes

Modify Object

POST

/axapi/v3/ddos/l4-udp

l4-udp attributes

Replace Object

PUT

/axapi/v3/ddos/l4-udp

l4-udp attributes

Delete Object

DELETE

/axapi/v3/ddos/l4-udp

l4-udp attributes

l4-udp attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.366 ddos l4-udp stats

Statistics for the object l4-udp

l4-udp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l4-udp
Element URI	/axapi/v3/ddos/l4-udp/stats
Element Attributes	l4-udp_attributes
Partition Visibility	None
Schema	`l4-udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4-udp/stats

l4-udp attributes

Get Object

GET

/axapi/v3/ddos/l4-udp/stats

l4-udp attributes

Modify Object

POST

/axapi/v3/ddos/l4-udp/stats

l4-udp attributes

Replace Object

PUT

/axapi/v3/ddos/l4-udp/stats

l4-udp attributes

Delete Object

DELETE

/axapi/v3/ddos/l4-udp/stats

l4-udp attributes

l4-udp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dst_udp_filter_action_blacklist

Description Dst Filter Action Blacklist

Type: number

Format: counter

dst_udp_filter_action_default_pass

Description Dst Filter Action Default Pass

Type: number

Format: counter

dst_udp_filter_action_drop

Description Dst Filter Action Drop

Type: number

Format: counter

dst_udp_filter_action_whitelist

Description Dst Filter Action WL

Type: number

Format: counter

dst_udp_filter_match

Description Dst Filter Match

Type: number

Format: counter

dst_udp_filter_not_match

Description Dst Filter No Match

Type: number

Format: counter

instateless

Description UDP Stateless Packets

Type: number

Format: counter

inudp

Description UDP Total Packets Received

Type: number

Format: counter

ntp_monlist_req

Description NTP Monlist Request

Type: number

Format: counter

ntp_monlist_req_bl

Description NTP Monlist Request Blacklisted

Type: number

Format: counter

ntp_monlist_req_drop

Description NTP Monlist Request Dropped

Type: number

Format: counter

ntp_monlist_resp

Description NTP Monlist Response

Type: number

Format: counter

ntp_monlist_resp_bl

Description NTP Monlist Response Blacklsited

Type: number

Format: counter

ntp_monlist_resp_drop

Description NTP Monlist Response Dropped

Type: number

Format: counter

src_dst_udp_filter_action_blacklist

Description SrcDst Filter Action Blacklist

Type: number

Format: counter

src_dst_udp_filter_action_default_pass

Description SrcDst Filter Action Default Pass

Type: number

Format: counter

src_dst_udp_filter_action_drop

Description SrcDst Filter Action Drop

Type: number

Format: counter

src_dst_udp_filter_action_whitelist

Description SrcDst Filter Action WL

Type: number

Format: counter

src_dst_udp_filter_match

Description SrcDst Filter Match

Type: number

Format: counter

src_dst_udp_filter_not_match

Description SrcDst Filter No Match

Type: number

Format: counter

src_udp_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_udp_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_udp_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_udp_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_udp_filter_match

Description Src Filter Match

Type: number

Format: counter

src_udp_filter_not_match

Description Src Filter No Match

Type: number

Format: counter

udp_any_exceed

Description UDP Exceeded

Type: number

Format: counter

udp_auth_drop

Description UDP Auth Dropped

Type: number

Format: counter

udp_auth_pass

Description UDP Auth Passed

Type: number

Format: counter

udp_conn_prate_bl

Description UDP Conn Pkt Rate Blacklisted

Type: number

Format: counter

udp_conn_prate_drop

Description UDP Conn Pkt Rate Dropped

Type: number

Format: counter

udp_conn_prate_exceed

Description UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

udp_drop_bl

Description UDP Blacklist Packets Dropped

Type: number

Format: counter

udp_drop_black_user_cfg_src

Description UDP Src Blacklist User Packets Dropped

Type: number

Format: counter

udp_drop_black_user_cfg_src_dst

Description UDP SrcDst Blacklist User Packets Dropped

Type: number

Format: counter

udp_drop_dst

Description UDP Dst Packets Dropped

Type: number

Format: counter

udp_drop_src

Description UDP Src Packets Dropped

Type: number

Format: counter

udp_frag_drop

Description UDP Frag Dropped

Type: number

Format: counter

udp_frag_rcvd

Description UDP Frag Received

Type: number

Format: counter

udp_payload_too_big

Description UDP Payload Too Large

Type: number

Format: counter

udp_payload_too_big_bl

Description UDP Payload Too Large Blacklisted

Type: number

Format: counter

udp_payload_too_big_drop

Description UDP Payload Too Large Dropped

Type: number

Format: counter

udp_payload_too_small

Description UDP Payload Too Small

Type: number

Format: counter

udp_payload_too_small_bl

Description UDP Payload Too Small Blacklisted

Type: number

Format: counter

udp_payload_too_small_drop

Description UDP Payload Too Small Dropped

Type: number

Format: counter

udp_port_zero_drop

Description UDP Port 0 Packets Dropped

Type: number

Format: counter

udp_retry_fail

Description UDP Retry Failed

Type: number

Format: counter

udp_retry_fail_bl

Description UDP Retry Fail Blacklisted

Type: number

Format: counter

udp_retry_gap_drop

Description UDP Retry-Gap Drop

Type: number

Format: counter

udp_retry_pass

Description UDP Retry Passed

Type: number

Format: counter

udp_retry_pass_wl

Description UDP Retry Pass WL

Type: number

Format: counter

udp_retry_start

Description UDP Retry Init

Type: number

Format: counter

udp_retry_timeout

Description UDP Retry Timeout

Type: number

Format: counter

udp_sess_create

Description UDP Sessions Created

Type: number

Format: counter

udp_src_dst_drop

Description UDP SrcDst Packets Dropped

Type: number

Format: counter

udp_total_bytes_drop

Description UDP Total Bytes Dropped

Type: number

Format: counter

udp_total_bytes_rcv

Description UDP Total Bytes Received

Type: number

Format: counter

udp_total_drop

Description UDP Total Packets Dropped

Type: number

Format: counter

udp_wellknown_src_port

Description UDP SrcPort Wellknown

Type: number

Format: counter

udp_wellknown_src_port_bl

Description UDP SrcPort Wellknown Blacklisted

Type: number

Format: counter

udp_wellknown_src_port_drop

Description UDP SrcPort Wellknown Dropped

Type: number

Format: counter

2.33.367 ddos l4type-icmp stats

Statistics for the object l4type-icmp

l4type-icmp Specification

Parameter	Value
Type	*Collection*
Collection Name	*l4type-icmp-list*
Collection URI	/axapi/v3/ddos/l4type-icmp
Element Name	l4type-icmp
Element URI	/axapi/v3/ddos/l4type-icmp/stats
Element Attributes	l4type-icmp_attributes
Partition Visibility	None
Schema	`l4type-icmp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l4type-icmp

l4type-icmp attributes

Create List

POST

/axapi/v3/ddos/l4type-icmp

l4type-icmp attributes

Get Object

GET

/axapi/v3/ddos/l4type-icmp/stats

l4type-icmp attributes

Get List

GET

/axapi/v3/ddos/l4type-icmp

l4type-icmp-list

Modify Object

POST

/axapi/v3/ddos/l4type-icmp/stats

l4type-icmp attributes

Replace Object

PUT

/axapi/v3/ddos/l4type-icmp/stats

l4type-icmp attributes

Replace List

PUT

/axapi/v3/ddos/l4type-icmp

l4type-icmp-list

Delete Object

DELETE

/axapi/v3/ddos/l4type-icmp/stats

l4type-icmp attributes

l4type-icmp-list

l4type-icmp-list is **JSON List** of *l4type-icmp attributes*

```
l4type-icmp-list : [
        { l4type-icmp attributes },
        { l4type-icmp attributes },
        ...
    ]
```

l4type-icmp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

bl

Description Dst Blacklisted

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

icmpv4_rfc_undef_drop

Description ICMPv4 RFC Undef Type Dropped

Type: number

Format: counter

icmpv6_rfc_undef_drop

Description ICMPv6 RFC Undef Type Dropped

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

rate_type0_exceed

Description ICMP Type Dst Rate 1 Exceeded

Type: number

Format: counter

rate_type0_exceed_bl

Description ICMP Type Dst Rate 1 Blacklisted

Type: number

Format: counter

rate_type0_exceed_drop

Description ICMP Type Dst Rate 1 Dropped

Type: number

Format: counter

rate_type1_exceed

Description ICMP Type Dst Rate 2 Exceeded

Type: number

Format: counter

rate_type1_exceed_bl

Description ICMP Type Dst Rate 2 Blacklisted

Type: number

Format: counter

rate_type1_exceed_drop

Description ICMP Type Dst Rate 2 Dropped

Type: number

Format: counter

rate_type2_exceed

Description ICMP Type Dst Rate 3 Exceeded

Type: number

Format: counter

rate_type2_exceed_bl

Description ICMP Type Dst Rate 3 Blacklisted

Type: number

Format: counter

rate_type2_exceed_drop

Description ICMP Type Dst Rate 3 Dropped

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

type

Description ICMP Type

Type: number

Format: counter

type_bl

Description ICMP Type Blacklisted

Type: number

Format: counter

type_deny_drop

Description ICMP Type Dropped

Type: number

Format: counter

wildcard

Description ICMP Type Wildcard

Type: number

Format: counter

wildcard_bl

Description ICMP Type Wildcard Blacklisted

Type: number

Format: counter

wildcard_deny_drop

Description ICMP Type Wildcard Dropped

Type: number

Format: counter

2.33.368 ddos l7-dns

DDOS DNS Statistics

l7-dns Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l7-dns
Element URI	/axapi/v3/ddos/l7-dns
Element Attributes	l7-dns_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/l7-dns/stats
Schema	`l7-dns schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l7-dns

l7-dns attributes

Get Object

GET

/axapi/v3/ddos/l7-dns

l7-dns attributes

Modify Object

POST

/axapi/v3/ddos/l7-dns

l7-dns attributes

Replace Object

PUT

/axapi/v3/ddos/l7-dns

l7-dns attributes

Delete Object

DELETE

/axapi/v3/ddos/l7-dns

l7-dns attributes

l7-dns attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.369 ddos l7-dns stats

Statistics for the object l7-dns

l7-dns Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l7-dns
Element URI	/axapi/v3/ddos/l7-dns/stats
Element Attributes	l7-dns_attributes
Partition Visibility	None
Schema	`l7-dns schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l7-dns/stats

l7-dns attributes

Get Object

GET

/axapi/v3/ddos/l7-dns/stats

l7-dns attributes

Modify Object

POST

/axapi/v3/ddos/l7-dns/stats

l7-dns attributes

Replace Object

PUT

/axapi/v3/ddos/l7-dns/stats

l7-dns attributes

Delete Object

DELETE

/axapi/v3/ddos/l7-dns/stats

l7-dns attributes

l7-dns attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dns_auth_drop

Description DNS Auth Dropped

Type: number

Format: counter

dns_auth_resp

Description DNS Auth Responded

Type: number

Format: counter

dns_auth_udp

Description DNS Auth UDP

Type: number

Format: counter

dns_auth_udp_fail

Description DNS Auth UDP Failed

Type: number

Format: counter

dns_auth_udp_fail_bl

Description DNS Auth UDP Fail Blacklisted

Type: number

Format: counter

dns_auth_udp_pass

Description DNS Auth UDP Passed

Type: number

Format: counter

dns_auth_udp_timeout

Description DNS Auth UDP Timeout

Type: number

Format: counter

dns_dg_action_deny

Description DNS Domain Group Action Deny

Type: number

Format: counter

dns_dg_action_permit

Description DNS Domain Group Action Permit

Type: number

Format: counter

dns_dg_rate_exceed

Description DNS Domain Group Domain Query Rate Exceeded

Type: number

Format: counter

dns_fqdn_label_count_exceed

Description FQDN Label Count Exceeded

Type: number

Format: counter

dns_fqdn_label_len_exceed

Description FQDN Label Length Exceeded

Type: number

Format: counter

dns_fqdn_rate_by_label_count_exceed

Description FQDN Rate by Label Count Exceeded

Type: number

Format: counter

dns_fqdn_stage2_exceed

Description FQDN Rate Exceeded

Type: number

Format: counter

dns_is_nx

Description NXDOMAIN Response

Type: number

Format: counter

dns_malform_drop

Description DNS Malform Query Dropped

Type: number

Format: counter

dns_nx_bl

Description NXDOMAIN Query Blacklisted

Type: number

Format: counter

dns_nx_drop

Description NXDOMAIN Query Dropped

Type: number

Format: counter

dns_nx_exceed

Description NXDOMAIN Response Rate Exceeded

Type: number

Format: counter

dns_outbound_query_response_size_exceed

Description DNS Outbound Query Resp Size Exceeded

Type: number

Format: counter

dns_outbound_query_sess_timed_out

Description DNS Outbound Query Session Timed Out

Type: number

Format: counter

dns_pkt_processed

Description DNS Packets Processed

Type: number

Format: counter

dns_policy_drop

Description DNS Policy Dropped

Type: number

Format: counter

dns_qry_any_drop

Description DNS Query ANY Dropped

Type: number

Format: counter

dns_query_class_any

Description DNS Query Class ANY

Type: number

Format: counter

dns_query_class_chaos

Description DNS Query Class CHAOS

Type: number

Format: counter

dns_query_class_csnet

Description DNS Query Class CSNET

Type: number

Format: counter

dns_query_class_hs

Description DNS Query Class HESIOD

Type: number

Format: counter

dns_query_class_in

Description DNS Query Class INTERNET

Type: number

Format: counter

dns_query_class_none

Description DNS Query Class NONE

Type: number

Format: counter

dns_query_class_whitelist_miss

Description DNS Query Class Whitelist Miss

Type: number

Format: counter

dns_query_type_a

Description DNS Query Type A

Type: number

Format: counter

dns_query_type_aaaa

Description DNS Query Type AAAA

Type: number

Format: counter

dns_query_type_any

Description DNS Query Type ANY

Type: number

Format: counter

dns_query_type_cname

Description DNS Query Type CNAME

Type: number

Format: counter

dns_query_type_mx

Description DNS Query Type MX

Type: number

Format: counter

dns_query_type_ns

Description DNS Query Type NS

Type: number

Format: counter

dns_query_type_opt

Description DNS Query Type OPT

Type: number

Format: counter

dns_query_type_soa

Description DNS Query Type SOA

Type: number

Format: counter

dns_query_type_srv

Description DNS Query Type SRV

Type: number

Format: counter

dns_rrtype_drop

Description DNS Record Type Dropped

Type: number

Format: counter

dns_tcp_auth_pass

Description DNS Auth Force-TCP Passed

Type: number

Format: counter

dns_udp_auth_retry_gap_drop

Description DNS Auth UDP Retry-Gap Drop

Type: number

Format: counter

dst_rate_limit0

Description Dst Request Rate 1 Exceeded

Type: number

Format: counter

dst_rate_limit1

Description Dst Request Rate 2 Exceeded

Type: number

Format: counter

dst_rate_limit2

Description Dst Request Rate 3 Exceeded

Type: number

Format: counter

dst_rate_limit3

Description Dst Request Rate 4 Exceeded

Type: number

Format: counter

dst_rate_limit4

Description Dst Request Rate 5 Exceeded

Type: number

Format: counter

force_tcp_auth

Description DNS Auth Force-TCP

Type: number

Format: counter

force_tcp_auth_conn_hit

Description DNS Auth Force-TCP With UDP Auth Connection Hit

Type: number

Format: counter

force_tcp_auth_timeout

Description DNS Auth Force-TCP With UDP Auth Timeout

Type: number

Format: counter

non_query_opcode_pass_through

Description DNS Non Query Opcode Pass Through

Type: number

Format: counter

src_rate_limit0

Description Src Request Rate 1 Exceeded

Type: number

Format: counter

src_rate_limit1

Description Src Request Rate 2 Exceeded

Type: number

Format: counter

src_rate_limit2

Description Src Request Rate 3 Exceeded

Type: number

Format: counter

src_rate_limit3

Description Src Request Rate 4 Exceeded

Type: number

Format: counter

src_rate_limit4

Description Src Request Rate 5 Exceeded

Type: number

Format: counter

2.33.370 ddos l7-http

DDOS HTTP Statistics

l7-http Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l7-http
Element URI	/axapi/v3/ddos/l7-http
Element Attributes	l7-http_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/l7-http/stats
Schema	`l7-http schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l7-http

l7-http attributes

Get Object

GET

/axapi/v3/ddos/l7-http

l7-http attributes

Modify Object

POST

/axapi/v3/ddos/l7-http

l7-http attributes

Replace Object

PUT

/axapi/v3/ddos/l7-http

l7-http attributes

Delete Object

DELETE

/axapi/v3/ddos/l7-http

l7-http attributes

l7-http attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.371 ddos l7-http stats

Statistics for the object l7-http

l7-http Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l7-http
Element URI	/axapi/v3/ddos/l7-http/stats
Element Attributes	l7-http_attributes
Partition Visibility	None
Schema	`l7-http schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l7-http/stats

l7-http attributes

Get Object

GET

/axapi/v3/ddos/l7-http/stats

l7-http attributes

Modify Object

POST

/axapi/v3/ddos/l7-http/stats

l7-http attributes

Replace Object

PUT

/axapi/v3/ddos/l7-http/stats

l7-http attributes

Delete Object

DELETE

/axapi/v3/ddos/l7-http/stats

l7-http attributes

l7-http attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

agent_filter_blacklist

Description Agent Filter Blacklisted

Type: number

Format: counter

agent_filter_match

Description Agent Filter Match

Type: number

Format: counter

alloc_fail

Description Alloc Failed

Type: number

Format: counter

challenge_fail

Description Challenge Failed

Type: number

Format: counter

challenge_js_fail

Description Challenge Javascript Failed

Type: number

Format: counter

challenge_js_sent

Description Challenge Javascript Sent

Type: number

Format: counter

challenge_ud_fail

Description Challenge URL Redirect Failed

Type: number

Format: counter

challenge_ud_sent

Description Challenge URL Redirect Sent

Type: number

Format: counter

chunk_bad

Description Bad HTTP Chunk

Type: number

Format: counter

chunk_sz_1k

Description Payload Chunk Size Less Than or Equal to 1K

Type: number

Format: counter

chunk_sz_2k

Description Payload Chunk Size Less Than or Equal to 2K

Type: number

Format: counter

chunk_sz_4k

Description Payload Chunk Size Less Than or Equal to 4K

Type: number

Format: counter

chunk_sz_512

Description Payload Chunk Size Less Than or Equal to 512

Type: number

Format: counter

chunk_sz_gt_4k

Description Payload Chunk Size Larger Than 4K

Type: number

Format: counter

client_rst

Description Client TCP RST Received

Type: number

Format: counter

ddos_policy_violation

Description Policy Violation

Type: number

Format: counter

dst_filter_action_blacklist

Description Dst Filter Action Blacklist

Type: number

Format: counter

dst_filter_action_default_pass

Description Dst Filter Action Default Pass

Type: number

Format: counter

dst_filter_action_drop

Description Dst Filter Action Drop

Type: number

Format: counter

dst_filter_action_ignore

Description Dst Filter Action Ignore

Type: number

Format: counter

dst_filter_action_reset

Description Dst Filter Action Reset

Type: number

Format: counter

dst_filter_action_whitelist

Description Dst Filter Action WL

Type: number

Format: counter

dst_filter_match

Description Dst Filter Match

Type: number

Format: counter

dst_filter_not_match

Description Dst Filter No Match

Type: number

Format: counter

dst_filter_rate_exceed

Description Dst Filter Rate Exceed

Type: number

Format: counter

dst_post_rate_exceed

Description Dst Post Rate Exceeded

Type: number

Format: counter

dst_req_rate_exceed

Description Dst Request Rate Exceeded

Type: number

Format: counter

dst_resp_rate_exceed

Description Dst Response Rate Exceeded

Type: number

Format: counter

error_condition

Description Error Condition

Type: number

Format: counter

header_name_too_long

Description HTTP Header Name Too Long

Type: number

Format: counter

header_processing_incomplete

Description Header Process Incomplete

Type: number

Format: counter

header_processing_time_0

Description Header Process Time Less Than 1s

Type: number

Format: counter

header_processing_time_1

Description Header Process Time Less Than 10s

Type: number

Format: counter

header_processing_time_2

Description Header Process Time Less Than 30s

Type: number

Format: counter

header_processing_time_3

Description Header Process Time Larger or Equal to 30s

Type: number

Format: counter

hps_req_sz_16k

Description Request Payload Size Less Than or Equal to 16K

Type: number

Format: counter

hps_req_sz_1k

Description Request Payload Size Less Than or Equal to 1K

Type: number

Format: counter

hps_req_sz_256k

Description Request Payload Size Less Than or Equal to 256K

Type: number

Format: counter

hps_req_sz_256k_plus

Description Request Payload Size Larger Than 256K

Type: number

Format: counter

hps_req_sz_2k

Description Request Payload Size Less Than or Equal to 2K

Type: number

Format: counter

hps_req_sz_32k

Description Request Payload Size Less Than or Equal to 32K

Type: number

Format: counter

hps_req_sz_4k

Description Request Payload Size Less Than or Equal to 4K

Type: number

Format: counter

hps_req_sz_64k

Description Request Payload Size Less Than or Equal to 64K

Type: number

Format: counter

hps_req_sz_8k

Description Request Payload Size Less Than or Equal to 8K

Type: number

Format: counter

hps_rsp_10

Description Response HTTP 1.0

Type: number

Format: counter

hps_rsp_11

Description Response HTTP 1.1

Type: number

Format: counter

hps_rsp_status_1xx

Description Status Code 1XX

Type: number

Format: counter

hps_rsp_status_2xx

Description Status Code 2XX

Type: number

Format: counter

hps_rsp_status_3xx

Description Status Code 3XX

Type: number

Format: counter

hps_rsp_status_4xx

Description Status Code 4XX

Type: number

Format: counter

hps_rsp_status_504_AX

Description Status Code 504 AX-Gen

Type: number

Format: counter

hps_rsp_status_5xx

Description Status Code 5XX

Type: number

Format: counter

hps_rsp_status_6xx

Description Status Code 6XX

Type: number

Format: counter

hps_rsp_status_unknown

Description Status Code Unknown

Type: number

Format: counter

hps_rsp_sz_16k

Description Response Payload Size Less Than or Equal to 16K

Type: number

Format: counter

hps_rsp_sz_1k

Description Response Payload Size Less Than or Equal to 1K

Type: number

Format: counter

hps_rsp_sz_256k

Description Response Payload Size Less Than or Equal to 256K

Type: number

Format: counter

hps_rsp_sz_256k_plus

Description Response Payload Size Larger Than 256K

Type: number

Format: counter

hps_rsp_sz_2k

Description Response Payload Size Less Than or Equal to 2K

Type: number

Format: counter

hps_rsp_sz_32k

Description Response Payload Size Less Than or Equal to 32K

Type: number

Format: counter

hps_rsp_sz_4k

Description Response Payload Size Less Than or Equal to 4K

Type: number

Format: counter

hps_rsp_sz_64k

Description Response Payload Size Less Than or Equal to 64K

Type: number

Format: counter

hps_rsp_sz_8k

Description Response Payload Size Less Than or Equal to 8K

Type: number

Format: counter

hps_server_rst

Description Server TCP RST Received

Type: number

Format: counter

http10

Description Request HTTP 1.0

Type: number

Format: counter

http11

Description Request HTTP 1.1

Type: number

Format: counter

http_auth_drop

Description HTTP Auth Dropped

Type: number

Format: counter

http_auth_resp

Description HTTP Auth Responded

Type: number

Format: counter

http_connect

Description Request Method CONNECT

Type: number

Format: counter

http_del

Description Request Method DELETE

Type: number

Format: counter

http_get

Description Request Method GET

Type: number

Format: counter

http_head

Description Request Method HEAD

Type: number

Format: counter

http_idle_timeout

Description Http Idle Timeout

Type: number

Format: counter

http_options

Description Request Method OPTIONS

Type: number

Format: counter

http_post

Description Request Method POST

Type: number

Format: counter

http_put

Description Request Method PUT

Type: number

Format: counter

http_trace

Description Request Method TRACE

Type: number

Format: counter

http_unknown

Description Request Method UNKNOWN

Type: number

Format: counter

invalid_hdr_name

Description HTTP Header Name Invalid

Type: number

Format: counter

invalid_hdr_val

Description HTTP Header Value Invalid

Type: number

Format: counter

invalid_header

Description HTTP Header Invalid

Type: number

Format: counter

line_too_long

Description Line Too Long

Type: number

Format: counter

lower_than_mss_exceed

Description Min Payload Size Fail Exceeded

Type: number

Format: counter

malform_bad_chunk

Description Malform Bad Chunk

Type: number

Format: counter

malform_content_len_too_long

Description Malform Content Length Too Long

Type: number

Format: counter

malform_header_name_too_long

Description Malform Header Name Too Long

Type: number

Format: counter

malform_line_too_long

Description Malform Line Too Long

Type: number

Format: counter

malform_req_line_invalid_method

Description Malform Request Line Invalid Method

Type: number

Format: counter

malform_req_line_too_long

Description Malform Request Line Too Long

Type: number

Format: counter

malform_req_line_too_small

Description Malform Request Line Too Small

Type: number

Format: counter

malform_too_many_headers

Description Malform Too Many Headers

Type: number

Format: counter

neg_req_remain

Description Negative Request Remain

Type: number

Format: counter

neg_rsp_remain

Description Negative Response Remain

Type: number

Format: counter

new_syn

Description TCP SYN

Type: number

Format: counter

ofo

Description Out-Of-Order Packets

Type: number

Format: counter

ofo_queue_exceed

Description Out-Of-Order Queue Exceeded

Type: number

Format: counter

ofo_timer_expired

Description Out-Of-Order Timeout

Type: number

Format: counter

parsereq_fail

Description Parse Request Failed

Type: number

Format: counter

partial_hdr

Description Partial Header

Type: number

Format: counter

policy_drop

Description Policy Dropped

Type: number

Format: counter

referer_filter_blacklist

Description Referer Filter Blacklisted

Type: number

Format: counter

referer_filter_match

Description Referer Filter Match

Type: number

Format: counter

req_content_len

Description Request Content-Length Received

Type: number

Format: counter

req_ofo

Description Out-Of-Order Request

Type: number

Format: counter

req_processed

Description Packets Processed

Type: number

Format: counter

req_retrans

Description Retransmit Request

Type: number

Format: counter

request

Description Request Total

Type: number

Format: counter

retrans

Description TCP Retransmit

Type: number

Format: counter

retrans_fin

Description TCP Retransmit FIN

Type: number

Format: counter

retrans_push

Description TCP Retransmit PSH

Type: number

Format: counter

retrans_rst

Description TCP Retransmit RST

Type: number

Format: counter

rsp_chunk

Description Response Chunk

Type: number

Format: counter

src_dst_filter_action_blacklist

Description SrcDst Filter Action Blacklist

Type: number

Format: counter

src_dst_filter_action_default_pass

Description SrcDst Filter Action Default Pass

Type: number

Format: counter

src_dst_filter_action_drop

Description SrcDst Filter Action Drop

Type: number

Format: counter

src_dst_filter_action_whitelist

Description SrcDst Filter Action WL

Type: number

Format: counter

src_dst_filter_match

Description SrcDst Filter Match

Type: number

Format: counter

src_dst_filter_not_match

Description SrcDst Filter No Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_filter_match

Description Src Filter Match

Type: number

Format: counter

src_filter_not_match

Description Src Filter No Match

Type: number

Format: counter

src_post_rate_exceed

Description Src Post Rate Exceeded

Type: number

Format: counter

src_req_rate_exceed

Description Src Request Rate Exceeded

Type: number

Format: counter

too_many_headers

Description HTTP Header Too Many

Type: number

Format: counter

uri_filter_match

Description URI Filter Match

Type: number

Format: counter

use_hdr_ip_as_source

Description Use IP In Header As Src

Type: number

Format: counter

window_small

Description Window Size Small

Type: number

Format: counter

window_small_drop

Description Window Size Small Dropped

Type: number

Format: counter

2.33.372 ddos l7-quic

DDOS QUIC Statistics

l7-quic Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l7-quic
Element URI	/axapi/v3/ddos/l7-quic
Element Attributes	l7-quic_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/l7-quic/stats
Schema	`l7-quic schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l7-quic

l7-quic attributes

```
POST /axapi/v3/ddos/l7-quic
Payload:
{
    "l7-quic": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/ddos/l7-quic

l7-quic attributes

Modify Object

POST

/axapi/v3/ddos/l7-quic

l7-quic attributes

Replace Object

PUT

/axapi/v3/ddos/l7-quic

l7-quic attributes

Delete Object

DELETE

/axapi/v3/ddos/l7-quic

l7-quic attributes

l7-quic attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'quic_packet_received': QUIC Packet Received; 'quic_initial_received': QUIC Initial Packet Received; 'quic_version_negotiation_received': QUIC Version Negotiation Received; 'quic_retry_received': QUIC Retry Received; 'quic_0rtt_recevied': QUIC 0RTT Received; 'quic_handshake_received': QUIC Handshake Received; 'quic_version_match_action_taken': QUIC Version Match Action Taken; 'quic_version_match_action_drop': QUIC Version Match Action Drop; 'quic_version_match_action_blacklist': QUIC Version Match Action Blacklist; 'quic_malformed_action_taken': QUIC Malformed Action Taken; 'quic_malformed_action_drop': QUIC Malformed Action Drop; 'quic_malformed_action_blacklist': QUIC Malformed Action Blacklist; 'quic_malformed_dcid_len_max_exceed': QUIC Malformed DCID Len Max Exceed; 'quic_malformed_scid_len_max_exceed': QUIC Malformed SCID Len Max Exceed; 'quic_fixed_bit_not_set': QUIC Fixed Bit Not Set; 'quic_retry_auth_sent': QUIC Retry Auth Sent; 'quic_retry_auth_pass': QUIC Retry Auth Pass; 'quic_retry_auth_fail': QUIC Retry Auth Fail; 'quic_connection_close_sent': QUIC Connection Close Sent; 'quic_invalid_retry_token': QUIC Invalid Retry Token; 'quic_short_header_received': QUIC Short Header Received; 'quic_short_headr_action_drop': QUIC Short Header Drop; 'quic_encrypt_fail': QUIC Encrypt Fail; 'quic_decrypt_fail': QUIC Decrypt Fail; 'quic_encrypt_success': QUIC Encrypt Success; 'quic_decrypt_success': QUIC Decrypt Success; 'quic_0rtt_drop': QUIC 0RTT Drop;

Type: string

Supported Values: all, quic_packet_received, quic_initial_received, quic_version_negotiation_received, quic_retry_received, quic_0rtt_recevied, quic_handshake_received, quic_version_match_action_taken, quic_version_match_action_drop, quic_version_match_action_blacklist, quic_malformed_action_taken, quic_malformed_action_drop, quic_malformed_action_blacklist, quic_malformed_dcid_len_max_exceed, quic_malformed_scid_len_max_exceed, quic_fixed_bit_not_set, quic_retry_auth_sent, quic_retry_auth_pass, quic_retry_auth_fail, quic_connection_close_sent, quic_invalid_retry_token, quic_short_header_received, quic_short_headr_action_drop, quic_encrypt_fail, quic_decrypt_fail, quic_encrypt_success, quic_decrypt_success, quic_0rtt_drop, quic_aead_pkt_rate_exceed, quic_dcid_pkt_rate_exceed, quic_create_conn_init_only

2.33.373 ddos l7-quic stats

Statistics for the object l7-quic

l7-quic Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l7-quic
Element URI	/axapi/v3/ddos/l7-quic/stats
Element Attributes	l7-quic_attributes
Partition Visibility	None
Schema	`l7-quic schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l7-quic/stats

l7-quic attributes

Get Object

GET

/axapi/v3/ddos/l7-quic/stats

l7-quic attributes

Modify Object

POST

/axapi/v3/ddos/l7-quic/stats

l7-quic attributes

Replace Object

PUT

/axapi/v3/ddos/l7-quic/stats

l7-quic attributes

Delete Object

DELETE

/axapi/v3/ddos/l7-quic/stats

l7-quic attributes

l7-quic attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

quic_0rtt_drop

Description QUIC 0RTT Drop

Type: number

Format: counter

quic_0rtt_recevied

Description QUIC 0RTT Received

Type: number

Format: counter

quic_aead_pkt_rate_exceed

Description QUIC AEAD Packet Rate Exceed

Type: number

Format: counter

quic_connection_close_sent

Description QUIC Connection Close Sent

Type: number

Format: counter

quic_create_conn_init_only

Description QUIC Create Connection on Initial Only

Type: number

Format: counter

quic_dcid_pkt_rate_exceed

Description QUIC DCID Packet Rate Exceed

Type: number

Format: counter

quic_decrypt_fail

Description QUIC Decrypt Fail

Type: number

Format: counter

quic_decrypt_success

Description QUIC Decrypt Success

Type: number

Format: counter

quic_encrypt_fail

Description QUIC Encrypt Fail

Type: number

Format: counter

quic_encrypt_success

Description QUIC Encrypt Success

Type: number

Format: counter

quic_fixed_bit_not_set

Description QUIC Fixed Bit Not Set

Type: number

Format: counter

quic_handshake_received

Description QUIC Handshake Received

Type: number

Format: counter

quic_initial_received

Description QUIC Initial Packet Received

Type: number

Format: counter

quic_invalid_retry_token

Description QUIC Invalid Retry Token

Type: number

Format: counter

quic_malformed_action_blacklist

Description QUIC Malformed Action Blacklist

Type: number

Format: counter

quic_malformed_action_drop

Description QUIC Malformed Action Drop

Type: number

Format: counter

quic_malformed_action_taken

Description QUIC Malformed Action Taken

Type: number

Format: counter

quic_malformed_dcid_len_max_exceed

Description QUIC Malformed DCID Len Max Exceed

Type: number

Format: counter

quic_malformed_scid_len_max_exceed

Description QUIC Malformed SCID Len Max Exceed

Type: number

Format: counter

quic_packet_received

Description QUIC Packet Received

Type: number

Format: counter

quic_retry_auth_fail

Description QUIC Retry Auth Fail

Type: number

Format: counter

quic_retry_auth_pass

Description QUIC Retry Auth Pass

Type: number

Format: counter

quic_retry_auth_sent

Description QUIC Retry Auth Sent

Type: number

Format: counter

quic_retry_received

Description QUIC Retry Received

Type: number

Format: counter

quic_short_header_received

Description QUIC Short Header Received

Type: number

Format: counter

quic_short_headr_action_drop

Description QUIC Short Header Drop

Type: number

Format: counter

quic_version_match_action_blacklist

Description QUIC Version Match Action Blacklist

Type: number

Format: counter

quic_version_match_action_drop

Description QUIC Version Match Action Drop

Type: number

Format: counter

quic_version_match_action_taken

Description QUIC Version Match Action Taken

Type: number

Format: counter

quic_version_negotiation_received

Description QUIC Version Negotiation Received

Type: number

Format: counter

2.33.374 ddos l7-sip

DDOS SIP Statistics

l7-sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l7-sip
Element URI	/axapi/v3/ddos/l7-sip
Element Attributes	l7-sip_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/l7-sip/stats
Schema	`l7-sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l7-sip

l7-sip attributes

Get Object

GET

/axapi/v3/ddos/l7-sip

l7-sip attributes

Modify Object

POST

/axapi/v3/ddos/l7-sip

l7-sip attributes

Replace Object

PUT

/axapi/v3/ddos/l7-sip

l7-sip attributes

Delete Object

DELETE

/axapi/v3/ddos/l7-sip

l7-sip attributes

l7-sip attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.375 ddos l7-sip stats

Statistics for the object l7-sip

l7-sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	l7-sip
Element URI	/axapi/v3/ddos/l7-sip/stats
Element Attributes	l7-sip_attributes
Partition Visibility	None
Schema	`l7-sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/l7-sip/stats

l7-sip attributes

Get Object

GET

/axapi/v3/ddos/l7-sip/stats

l7-sip attributes

Modify Object

POST

/axapi/v3/ddos/l7-sip/stats

l7-sip attributes

Replace Object

PUT

/axapi/v3/ddos/l7-sip/stats

l7-sip attributes

Delete Object

DELETE

/axapi/v3/ddos/l7-sip/stats

l7-sip attributes

l7-sip attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

body_too_big

Description Body Too Big

Type: number

Format: counter

client_rst

Description Client Rst

Type: number

Format: counter

concatenate_msg

Description Concatenate Msessage

Type: number

Format: counter

error_condition

Description Error Condition

Type: number

Format: counter

get_content_fail_error

Description Get Content Fail

Type: number

Format: counter

header_filter_action_blacklist

Description Header Filter Action Blacklist

Type: number

Format: counter

header_filter_action_default_pass

Description Header Filter Action Default Pass

Type: number

Format: counter

header_filter_action_drop

Description Header Filter Action Drop

Type: number

Format: counter

header_filter_action_whitelist

Description Header Filter Action Whitelist

Type: number

Format: counter

header_filter_match

Description Header Filter Match

Type: number

Format: counter

header_filter_none_match

Description None Header Filter Match

Type: number

Format: counter

header_filter_not_match

Description Header Filter Not Match

Type: number

Format: counter

header_name_too_long

Description Max Header Name Length Exceed

Type: number

Format: counter

idle_timeout

Description Idle Timeout

Type: number

Format: counter

invalid_header

Description Invalid Header

Type: number

Format: counter

invalid_start_line_error

Description Invalid Start Line

Type: number

Format: counter

keep_alive_msg

Description KeepAlive Message

Type: number

Format: counter

line_mem_allocated

Description Line Memory Allocated

Type: number

Format: counter

line_mem_freed

Description Line Memory Freed

Type: number

Format: counter

line_too_long

Description Line Too Long

Type: number

Format: counter

malform_request

Description Malformed Request

Type: number

Format: counter

max_call_id_len_exceed

Description Max Call ID Length Exceed

Type: number

Format: counter

max_header_value_len_exceed

Description Max Header Value Length Exceed

Type: number

Format: counter

max_sdp_len_exceed

Description Max SDP Length Exceed

Type: number

Format: counter

max_uri_len_exceed

Description Max URI Length Exceed

Type: number

Format: counter

mem_alloc_fail_error

Description Memory Allocate Fail

Type: number

Format: counter

ofo_queue_size_exceed

Description Out-Of-Order Queue Size Exceed

Type: number

Format: counter

ofo_timeout

Description Out-of-Order Timeout

Type: number

Format: counter

parse_header_fail_error

Description Header Parse Fail

Type: number

Format: counter

parse_start_line_error

Description Start Line Parse Error

Type: number

Format: counter

pkts_ofo_total

Description Packet Out-Of-Order Total

Type: number

Format: counter

pkts_retrans_total

Description Packets Retransmit Total

Type: number

Format: counter

policy_drop

Description Policy Drop

Type: number

Format: counter

policy_violation

Description Policy Violation

Type: number

Format: counter

rate1_limit_exceed

Description Dst Request Rate 1 Limit Exceed

Type: number

Format: counter

rate2_limit_exceed

Description Dst Request Rate 2 Limit Exceed

Type: number

Format: counter

read_start_line_error

Description Read Start Line Read Error

Type: number

Format: counter

request_method_ack

Description Request Method ACK

Type: number

Format: counter

request_method_bye

Description Request Method BYE

Type: number

Format: counter

request_method_cancel

Description Request Method CANCEL

Type: number

Format: counter

request_method_info

Description Request Method INFO

Type: number

Format: counter

request_method_invite

Description Request Method INVITE

Type: number

Format: counter

request_method_message

Description Request Method MESSAGE

Type: number

Format: counter

request_method_notify

Description Request Method NOTIFY

Type: number

Format: counter

request_method_options

Description Request Method OPTIONS

Type: number

Format: counter

request_method_prack

Description Request Method PRACK

Type: number

Format: counter

request_method_publish

Description Request Method PUBLISH

Type: number

Format: counter

request_method_refer

Description Request Method REFER

Type: number

Format: counter

request_method_register

Description Request Method REGISTER

Type: number

Format: counter

request_method_subscribe

Description Request Method SUBSCRIBE

Type: number

Format: counter

request_method_unknown

Description Unknown Request Method

Type: number

Format: counter

request_method_update

Description Request Method UPDATE

Type: number

Format: counter

request_unknown_version

Description Unknown Request Version

Type: number

Format: counter

response_1xx

Description Response Status Code 1xx

Type: number

Format: counter

response_2xx

Description Response Status Code 2xx

Type: number

Format: counter

response_3xx

Description Response Status Code 3xx

Type: number

Format: counter

response_4xx

Description Response Status Code 4xx

Type: number

Format: counter

response_5xx

Description Response Status Code 5xx

Type: number

Format: counter

response_6xx

Description Response Status Code 6xx

Type: number

Format: counter

response_unknown

Description Unknown Response Status Code

Type: number

Format: counter

response_unknown_version

Description Unknown Response Version

Type: number

Format: counter

seq_check_ofo

Description Sequence Check Out-Of-Order

Type: number

Format: counter

seq_check_retrans_fin

Description Sequence Check Retransmit Fin

Type: number

Format: counter

seq_check_retrans_other

Description Sequence Check Retransmit Other

Type: number

Format: counter

seq_check_retrans_push

Description Sequence Check Retransmit Push

Type: number

Format: counter

seq_check_retrans_rst

Description Sequence Check Retransmit Rst

Type: number

Format: counter

src_dst_header_filter_action_blacklist

Description Src Header Filter Action Blacklist

Type: number

Format: counter

src_dst_header_filter_action_default_pass

Description Src Header Filter Action Default Pass

Type: number

Format: counter

src_dst_header_filter_action_drop

Description Src Header Filter Action Drop

Type: number

Format: counter

src_dst_header_filter_action_whitelist

Description Src Header Filter Action Whitelist

Type: number

Format: counter

src_dst_header_filter_match

Description Src Header Filter Match

Type: number

Format: counter

src_dst_header_filter_not_match

Description Src Header Filter Not Match

Type: number

Format: counter

src_header_filter_action_blacklist

Description Src Header Filter Action Blacklist

Type: number

Format: counter

src_header_filter_action_default_pass

Description Src Header Filter Action Default Pass

Type: number

Format: counter

src_header_filter_action_drop

Description Src Header Filter Action Drop

Type: number

Format: counter

src_header_filter_action_whitelist

Description Src Header Filter Action Whitelist

Type: number

Format: counter

src_header_filter_match

Description Src Header Filter Match

Type: number

Format: counter

src_header_filter_not_match

Description Src Header Filter Not Match

Type: number

Format: counter

src_rate1_limit_exceed

Description Src Request Rate 1 Limit Exceed

Type: number

Format: counter

src_rate2_limit_exceed

Description Src Request Rate 2 Limit Exceed

Type: number

Format: counter

too_many_header

Description Max Header Count Exceed

Type: number

Format: counter

2.33.376 ddos local-address

Configure IP/IPv6 Local Address

local-address Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	local-address
Element URI	/axapi/v3/ddos/local-address
Element Attributes	local-address_attributes
Partition Visibility	shared
Schema	`local-address schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/local-address

local-address_attributes

local-address attributes

ip-list

Type: List

Reference Object: */axapi/v3/ddos/local-address/ip/{ip-addr}*

ipv6-list

Type: List

Reference Object: */axapi/v3/ddos/local-address/ipv6/{ipv6-addr}*

ip-list

Specification	Value
Type	*list*
Block object keys	

ip-addr

Description DDoS IPv4 Address for syn cookie usage

Type: string

Format: ipv4-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6-list

Specification	Value
Type	*list*
Block object keys	

ipv6-addr

Description DDoS IPv6 Address for syn cookie usage

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.377 ddos local-address ip

Configure DDoS ipv4 address

ip Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ip-addr*
Collection Name	*ip-list*
Collection URI	/axapi/v3/ddos/local-address/ip
Element Name	ip
Element URI	/axapi/v3/ddos/local-address/ip/{ip-addr}
Element Attributes	ip_attributes
Partition Visibility	shared
Schema	`ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/local-address/ip

ip attributes

```
POST /axapi/v3/ddos/local-address/ip/
Payload:
{
    "ip": {
        "ip-addr": "3.3.3.3"
    }
}
```

Create List

POST

/axapi/v3/ddos/local-address/ip

ip attributes

Get Object

GET

/axapi/v3/ddos/local-address/ip/{ip-addr}

ip attributes

```
GET /axapi/v3/ddos/local-address/ip/3.3.3.3
Reponse:
{
    "ip": {
```

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```
        "ip-addr": "3.3.3.3",
        "uuid": "c566b750-087c-11f0-88ef-714ea04fa382",
        "a10-url": "/axapi/v3/ddos/local-address/ip/3.3.3.3"
    }
}
```

Get List

GET

/axapi/v3/ddos/local-address/ip

ip-list

Modify Object

POST

/axapi/v3/ddos/local-address/ip/{ip-addr}

ip attributes

Replace Object

PUT

/axapi/v3/ddos/local-address/ip/{ip-addr}

ip attributes

```
PUT /axapi/v3/ddos/local-address/ip/3.3.3.3
Payload:
{
    "ip": {
        "ip-addr": "3.3.3.3"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/local-address/ip

ip-list

Delete Object

DELETE

/axapi/v3/ddos/local-address/ip/{ip-addr}

ip attributes

```
DELETE /axapi/v3/ddos/local-address/ip/3.3.3.3
Reponse:
{
    "response": {
        "http-status": 200,
```

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```
        "status": "OK",
        "msg": "Success"
    }
}
```

ip-list

ip-list is **JSON List** of *ip attributes*

ip-list : [

{ *ip attributes* },

{ *ip attributes* },

...

]

ip attributes

ip-addr

Description DDoS IPv4 Address for syn cookie usage

Type: string

Format: ipv4-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.378 ddos local-address ipv6

Configure DDoS ipv6 address

ipv6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ipv6-addr*
Collection Name	*ipv6-list*
Collection URI	/axapi/v3/ddos/local-address/ipv6
Element Name	ipv6
Element URI	/axapi/v3/ddos/local-address/ipv6/{ipv6-addr}
Element Attributes	ipv6_attributes
Partition Visibility	shared
Schema	`ipv6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/local-address/ipv6

ipv6 attributes

```
POST /axapi/v3/ddos/local-address/ipv6/
Payload:
{
    "ipv6": {
        "ipv6-addr": "2003::1"
    }
}
```

Create List

POST

/axapi/v3/ddos/local-address/ipv6

ipv6 attributes

Get Object

GET

/axapi/v3/ddos/local-address/ipv6/{ipv6-addr}

ipv6 attributes

```
GET /axapi/v3/ddos/local-address/ipv6/2003::1
Reponse:
{
    "ipv6": {
        "ipv6-addr": "2003::1",
        "uuid": "d5123ca6-087c-11f0-88ef-714ea04fa382",
        "a10-url": "/axapi/v3/ddos/local-address/ipv6/2003%3A%3A1"
    }
}
```

Get List

GET

/axapi/v3/ddos/local-address/ipv6

ipv6-list

Modify Object

POST

/axapi/v3/ddos/local-address/ipv6/{ipv6-addr}

ipv6 attributes

Replace Object

PUT

/axapi/v3/ddos/local-address/ipv6/{ipv6-addr}

ipv6 attributes

```
PUT /axapi/v3/ddos/local-address/ipv6/2003::1
Payload:
{
    "ipv6": {
        "ipv6-addr": "2003::1"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/local-address/ipv6

ipv6-list

Delete Object

DELETE

/axapi/v3/ddos/local-address/ipv6/{ipv6-addr}

ipv6 attributes

```
DELETE /axapi/v3/ddos/local-address/ipv6/2003::1
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ipv6-list

ipv6-list is **JSON List** of *ipv6 attributes*

ipv6-list : [

{ *ipv6 attributes* },

{ *ipv6 attributes* },

...

]

ipv6 attributes

ipv6-addr

Description DDoS IPv6 Address for syn cookie usage

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.379 ddos logging

DDOS Logging Statistics

logging Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	logging
Element URI	/axapi/v3/ddos/logging
Element Attributes	logging_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/logging/stats
Schema	`logging schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/logging

logging attributes

Get Object

GET

/axapi/v3/ddos/logging

logging attributes

Modify Object

POST

/axapi/v3/ddos/logging

logging attributes

Replace Object

PUT

/axapi/v3/ddos/logging

logging attributes

Delete Object

DELETE

/axapi/v3/ddos/logging

logging attributes

logging attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.380 ddos logging stats

Statistics for the object logging

logging Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	logging
Element URI	/axapi/v3/ddos/logging/stats
Element Attributes	logging_attributes
Partition Visibility	None
Schema	`logging schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/logging/stats

logging attributes

Get Object

GET

/axapi/v3/ddos/logging/stats

logging attributes

Modify Object

POST

/axapi/v3/ddos/logging/stats

logging attributes

Replace Object

PUT

/axapi/v3/ddos/logging/stats

logging attributes

Delete Object

DELETE

/axapi/v3/ddos/logging/stats

logging attributes

logging attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

log_msg_oom

Description Log Message Out of Memory Error

Type: number

Format: counter

log_msg_quota_exceed

Description Log Message Per CPU Quota Exceed

Type: number

Format: counter

log_msg_send_err

Description Log Message Send Error

Type: number

Format: counter

log_msg_sent

Description Log Message Sent

Type: number

Format: counter

log_queue_full

Description Log Message Queue Full

Type: number

Format: counter

2.33.381 ddos long

long Statistics

long Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	long
Element URI	/axapi/v3/ddos/long
Element Attributes	long_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/long/stats
Schema	`long schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/long

long attributes

Get Object

GET

/axapi/v3/ddos/long

long attributes

Modify Object

POST

/axapi/v3/ddos/long

long attributes

Replace Object

PUT

/axapi/v3/ddos/long

long attributes

Delete Object

DELETE

/axapi/v3/ddos/long

long attributes

long attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.382 ddos long stats

Statistics for the object long

long Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	long
Element URI	/axapi/v3/ddos/long/stats
Element Attributes	long_attributes
Partition Visibility	None
Schema	`long schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/long/stats

long attributes

Get Object

GET

/axapi/v3/ddos/long/stats

long attributes

Modify Object

POST

/axapi/v3/ddos/long/stats

long attributes

Replace Object

PUT

/axapi/v3/ddos/long/stats

long attributes

Delete Object

DELETE

/axapi/v3/ddos/long/stats

long attributes

long attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dns_auth_udp_pass

Description DNS Auth UDP Passed

Type: number

Format: counter

dns_malform_drop

Description DNS Malform Drop

Type: number

Format: counter

dns_qry_any_drop

Description DNS Query Any Drop

Type: number

Format: counter

dns_tcp_auth_pass

Description DNS Auth Force-TCP Passed

Type: number

Format: counter

dst_entry_aged

Description Dst Entry Aged

Type: number

Format: counter

dst_entry_hit

Description Dst Entry Hit

Type: number

Format: counter

dst_entry_learn

Description Dst Entry Learned

Type: number

Format: counter

dst_ipproto_pkt_rate_exceed

Description Dst IP-Proto Pkt Rate Exceeded

Type: number

Format: counter

dst_port_conn_limit_exceed

Description Dst Port Conn Limit Exceeded

Type: number

Format: counter

dst_port_conn_rate_exceed

Description Dst Port Conn Rate Exceeded

Type: number

Format: counter

dst_port_kbit_rate_exceed

Description Dst Port KiBit Rate Exceeded (KiBit)

Type: number

Format: counter

dst_port_pkt_rate_exceed

Description Dst Port Pkt Rate Exceeded

Type: number

Format: counter

dst_sport_conn_limit_exceed

Description Dst SrcPort Conn Limit Exceeded

Type: number

Format: counter

dst_sport_conn_rate_exceed

Description Dst SrcPort Conn Rate Exceeded

Type: number

Format: counter

dst_sport_kbit_rate_exceed

Description Dst SrcPort KiBit Rate Exceeded (KiBit)

Type: number

Format: counter

dst_sport_pkt_rate_exceed

Description Dst SrcPort Pkt Rate Exceeded

Type: number

Format: counter

entry_create_fail_drop

Description Entry Create Fail Drop

Type: number

Format: counter

gre_tunnel_rcvd

Description GRE Tunnel Received

Type: number

Format: counter

gre_v6_tunnel_rcvd

Description GRE V6 Tunnel Received

Type: number

Format: counter

ip_gre_tunnel_decap

Description GRE Tunnel Decap

Type: number

Format: counter

ip_gre_tunnel_decap_fail

Description GRE Tunnel Decap Failed

Type: number

Format: counter

ip_gre_tunnel_decap_key

Description GRE Tunnel Decap W/ Key

Type: number

Format: counter

ip_gre_tunnel_decap_key_drop

Description GRE Tunnel Decap Key Mismatch Dropped

Type: number

Format: counter

ip_gre_tunnel_encap

Description GRE Tunnel Encap

Type: number

Format: counter

ip_gre_tunnel_encap_fail

Description GRE Tunnel Encap Failed

Type: number

Format: counter

ip_gre_tunnel_encap_key

Description GRE Tunnel Encap W/ Key

Type: number

Format: counter

ip_gre_tunnel_rate_limit_inner

Description GRE Tunnel Rate Limit Inner Pkts

Type: number

Format: counter

ip_tunnel_decap

Description IPv4 Tunnel Decap

Type: number

Format: counter

ip_tunnel_decap_fail

Description IPv4 Tunnel Decap Failed

Type: number

Format: counter

ip_tunnel_encap

Description IPv4 Tunnel Encap

Type: number

Format: counter

ip_tunnel_encap_fail

Description IPv4 Tunnel Encap Failed

Type: number

Format: counter

ip_tunnel_rate_limit_inner

Description IPv4 Tunnel Rate Limit Inner Pkts

Type: number

Format: counter

ip_tunnel_rcvd

Description IPv4 Tunnel Received

Type: number

Format: counter

ip_vxlan_tunnel_decap

Description IP VxLAN Tunnel Decap

Type: number

Format: counter

ip_vxlan_tunnel_decap_err

Description IP VxLAN Tunnel Decap Error

Type: number

Format: counter

ip_vxlan_tunnel_invalid_vni

Description IP VxLAN Tunnel Invalid VNI

Type: number

Format: counter

ip_vxlan_tunnel_rcvd

Description IP VxLAN Tunnel Received

Type: number

Format: counter

ipv6_gre_tunnel_decap

Description GRE V6 Tunnel Decap

Type: number

Format: counter

ipv6_gre_tunnel_decap_fail

Description GRE V6 Tunnel Decap Failed

Type: number

Format: counter

ipv6_gre_tunnel_decap_key

Description GRE V6 Tunnel Decap W/ Key

Type: number

Format: counter

ipv6_gre_tunnel_decap_key_drop

Description GRE V6 Tunnel Decap Key Mismatch Dropped

Type: number

Format: counter

ipv6_gre_tunnel_encap

Description GRE V6 Tunnel Encap

Type: number

Format: counter

ipv6_gre_tunnel_encap_fail

Description GRE V6 Tunnel Encap Failed

Type: number

Format: counter

ipv6_gre_tunnel_encap_key

Description GRE V6 Tunnel Encap W/ Key

Type: number

Format: counter

ipv6_gre_tunnel_rate_limit_inner

Description GRE V6 Tunnel Rate Limit Inner Pkts

Type: number

Format: counter

ipv6_tunnel_decap

Description IPv6 Tunnel Decap

Type: number

Format: counter

ipv6_tunnel_decap_fail

Description IPv6 Tunnel Decap Failed

Type: number

Format: counter

ipv6_tunnel_encap

Description IPv6 Tunnel Encap

Type: number

Format: counter

ipv6_tunnel_encap_fail

Description IPv6 Tunnel Encap Failed

Type: number

Format: counter

ipv6_tunnel_rate_limit_inner

Description IPv6 Tunnel Rate Limit Inner Pkts

Type: number

Format: counter

ipv6_tunnel_rcvd

Description IPv6 Tunnel Received

Type: number

Format: counter

jumbo_frag_drop

Description Jumbo Frag Drop

Type: number

Format: counter

jumbo_frag_drop_before_slb

Description Jumbo Fragment Non Data Plane Drop

Type: number

Format: counter

jumbo_frag_drop_by_filter

Description Jumbo Fragment Filter Miss Drop

Type: number

Format: counter

jumbo_in_tunnel_drop

Description Jumbo Packet in Tunnel Drop

Type: number

Format: counter

jumbo_outgoing_mtu_exceed_drop

Description Jumbo Outgoing MTU Exceed Drop

Type: number

Format: counter

src_entry_aged

Description Src Entry Aged

Type: number

Format: counter

src_entry_hit

Description Src Entry Hit

Type: number

Format: counter

src_entry_learn

Description Src Entry Learned

Type: number

Format: counter

syn_auth_skip

Description TCP SYN Auth Skipped

Type: number

Format: counter

sync_dst_wl_rcv

Description Sync Dst Received

Type: number

Format: counter

sync_dst_wl_sent

Description Sync Dst Sent

Type: number

Format: counter

sync_src_dst_wl_rcv

Description Sync SrcDst Received

Type: number

Format: counter

sync_src_dst_wl_sent

Description Sync SrcDst Sent

Type: number

Format: counter

sync_src_wl_rcv

Description Sync Src Received

Type: number

Format: counter

sync_src_wl_sent

Description Sync Src Sent

Type: number

Format: counter

tcp_ack_no_syn

Description TCP ACK No SYN

Type: number

Format: counter

tcp_action_on_ack_failed

Description TCP ACK Retry Dropped

Type: number

Format: counter

tcp_action_on_ack_matched

Description TCP ACK Retry Matched

Type: number

Format: counter

tcp_action_on_ack_passed

Description TCP ACK Retry Passed

Type: number

Format: counter

tcp_action_on_ack_reset

Description TCP ACK Retry Timeout Reset

Type: number

Format: counter

tcp_action_on_ack_start

Description TCP ACK Retry Init

Type: number

Format: counter

tcp_action_on_ack_timeout

Description TCP ACK Retry Timeout

Type: number

Format: counter

tcp_exceed_drop_conn_prate

Description TCP Conn Pkt Rate Dropped

Type: number

Format: counter

tcp_out_of_order

Description TCP Out-Of-Seq Total

Type: number

Format: counter

tcp_out_of_seq_bl

Description TCP Out-Of-Seq Blacklisted

Type: number

Format: counter

tcp_outrst

Description TCP Outbound RST

Type: number

Format: counter

tcp_progression_violation_exceed

Description Progression: Violation Exceeded

Type: number

Format: counter

tcp_progression_violation_exceed_bl

Description Progression: Violation Exceeded Blacklisted

Type: number

Format: counter

tcp_progression_violation_exceed_drop

Description Progression: Violation Exceeded Dropped

Type: number

Format: counter

tcp_progression_violation_exceed_reset

Description Progression: Violation Exceeded Reset

Type: number

Format: counter

tcp_reset_client

Description TCP Reset Client

Type: number

Format: counter

tcp_reset_server

Description TCP Reset Server

Type: number

Format: counter

tcp_retransmit

Description TCP Retransmit Total

Type: number

Format: counter

tcp_retransmit_bl

Description TCP Retransmit Blacklisted

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP Retransmit SYN Exceed Blacklisted

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP Retransmit SYN Exceed Dropped

Type: number

Format: counter

tcp_syn_rate

Description TCP SYN Rate Per Sec

Type: number

Format: counter

tcp_syn_received

Description TCP SYN Received

Type: number

Format: counter

tcp_syncookie_check_fail

Description TCP SYN Cookie Check Failed

Type: number

Format: counter

tcp_syncookie_fail_bl

Description TCP SYN Cookie Blacklist Failed

Type: number

Format: counter

tcp_syncookie_pass

Description TCP SYN Cookie Passed

Type: number

Format: counter

tcp_syncookie_sent

Description TCP SYN Cookie Sent

Type: number

Format: counter

tcp_syncookie_sent_fail

Description TCP SYN Cookie Send Failed

Type: number

Format: counter

tcp_zero_wind_bl

Description TCP Zero-Window Blacklisted

Type: number

Format: counter

tcp_zero_window

Description TCP Zero-Window Total

Type: number

Format: counter

udp_dst_wellknown_port_drop

Description UDP Wellknown Port Drop

Type: number

Format: counter

udp_exceed_drop_conn_prate

Description UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

udp_ntp_monlist_req_drop

Description NTP Monlist Request Dropped

Type: number

Format: counter

udp_ntp_monlist_resp_drop

Description NTP Monlist Response Dropped

Type: number

Format: counter

udp_payload_too_big_drop

Description UDP Payload Too Large Dropped

Type: number

Format: counter

udp_payload_too_small_drop

Description UDP Payload Too Small Dropped

Type: number

Format: counter

udp_retry_pass

Description UDP Retry Passed

Type: number

Format: counter

2.33.383 ddos multi-pu-traffic-stats

DDOS multi-pu traffic-distribution statistics

multi-pu-traffic-stats Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	multi-pu-traffic-stats
Element URI	/axapi/v3/ddos/multi-pu-traffic-stats
Element Attributes	multi-pu-traffic-stats_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/multi-pu-traffic-stats/oper
Schema	`multi-pu-traffic-stats schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/multi-pu-traffic-stats

multi-pu-traffic-stats attributes

Get Object

GET

/axapi/v3/ddos/multi-pu-traffic-stats

multi-pu-traffic-stats attributes

Modify Object

POST

/axapi/v3/ddos/multi-pu-traffic-stats

multi-pu-traffic-stats attributes

Replace Object

PUT

/axapi/v3/ddos/multi-pu-traffic-stats

multi-pu-traffic-stats attributes

Delete Object

DELETE

/axapi/v3/ddos/multi-pu-traffic-stats

multi-pu-traffic-stats attributes

multi-pu-traffic-stats attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.384 ddos multi-pu-traffic-stats oper

Operational Status for the object multi-pu-traffic-stats

multi-pu-traffic-stats Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	multi-pu-traffic-stats
Element URI	/axapi/v3/ddos/multi-pu-traffic-stats/oper
Element Attributes	multi-pu-traffic-stats_attributes
Partition Visibility	None
Schema	`multi-pu-traffic-stats schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/multi-pu-traffic-stats/oper

multi-pu-traffic-stats attributes

Get Object

GET

/axapi/v3/ddos/multi-pu-traffic-stats/oper

multi-pu-traffic-stats attributes

Modify Object

POST

/axapi/v3/ddos/multi-pu-traffic-stats/oper

multi-pu-traffic-stats attributes

Replace Object

PUT

/axapi/v3/ddos/multi-pu-traffic-stats/oper

multi-pu-traffic-stats attributes

Delete Object

DELETE

/axapi/v3/ddos/multi-pu-traffic-stats/oper

multi-pu-traffic-stats attributes

multi-pu-traffic-stats attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

pu-list

Type: List

pu1-cpu-rate

Description

Type: number

pu1-throughput-rate

Description

Type: number

pu2-cpu-rate

Description

Type: number

pu2-throughput-rate

Description

Type: number

oper_pu-list

Specification	Value
Type	*list*
Block object keys	

cpu-top

Type: List

kbit-top

Type: List

pkt-top

Type: List

pu-index

Description

Type: number

oper_pu-list_cpu-top

Specification	Value
Type	*list*
Block object keys	

pu1-cpu

Description

Type: number

pu2-cpu

Description

Type: number

zone-name

Description

Type: string

Format: string-rlx

oper_pu-list_pkt-top

Specification	Value
Type	*list*
Block object keys	

pu1-pkt

Description

Type: number

pu2-pkt

Description

Type: number

zone-name

Description

Type: string

Format: string-rlx

oper_pu-list_kbit-top

Specification	Value
Type	*list*
Block object keys	

pu1-kbit

Description

Type: number

pu2-kbit

Description

Type: number

zone-name

Description

Type: string

Format: string-rlx

2.33.385 ddos network-ip-entity

Details of Dynamic IP entry under network object

network-ip-entity Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	network-ip-entity
Element URI	/axapi/v3/ddos/network-ip-entity
Element Attributes	network-ip-entity_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/network-ip-entity/stats
Schema	`network-ip-entity schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-ip-entity

network-ip-entity attributes

Get Object

GET

/axapi/v3/ddos/network-ip-entity

network-ip-entity attributes

Modify Object

POST

/axapi/v3/ddos/network-ip-entity

network-ip-entity attributes

Replace Object

PUT

/axapi/v3/ddos/network-ip-entity

network-ip-entity attributes

Delete Object

DELETE

/axapi/v3/ddos/network-ip-entity

network-ip-entity attributes

network-ip-entity attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.386 ddos network-ip-entity stats

Statistics for the object network-ip-entity

network-ip-entity Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	network-ip-entity
Element URI	/axapi/v3/ddos/network-ip-entity/stats
Element Attributes	network-ip-entity_attributes
Partition Visibility	None
Schema	`network-ip-entity schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-ip-entity/stats

network-ip-entity attributes

Get Object

GET

/axapi/v3/ddos/network-ip-entity/stats

network-ip-entity attributes

Modify Object

POST

/axapi/v3/ddos/network-ip-entity/stats

network-ip-entity attributes

Replace Object

PUT

/axapi/v3/ddos/network-ip-entity/stats

network-ip-entity attributes

Delete Object

DELETE

/axapi/v3/ddos/network-ip-entity/stats

network-ip-entity attributes

network-ip-entity attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

bit_rate

Description B(bits)PS

Type: number

Format: counter

packet_rate

Description PPS

Type: number

Format: counter

2.33.387 ddos network-object

Configure DDoS a static Monitor Network Object

network-object Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*object-name*
Collection Name	*network-object-list*
Collection URI	/axapi/v3/ddos/network-object
Element Name	network-object
Element URI	/axapi/v3/ddos/network-object/{object-name}
Element Attributes	network-object_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/network-object/{object-name}/stats
Operational Data URI	/axapi/v3/ddos/network-object/{object-name}/oper
Schema	`network-object schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object

network-object attributes

```
POST /axapi/v3/ddos/network-object/a/ip/
Payload:
{
    "ip": {
        "subnet-ip-addr": "6.0.0.0/8",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/network-object

network-object attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}

network-object attributes

```
GET /axapi/v3/ddos/network-object/a/ip/6.0.0.0%2f8
Reponse:
{
    "ip": {
        "subnet-ip-addr": "6.0.0.0/8",
        "uuid": "b6bdbb70-087e-11f0-b3da-b94ba84d9cdf",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/network-object/a/ip/6.0.0.0%2F8"
    }
}
```

Get List

GET

/axapi/v3/ddos/network-object

network-object-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}

network-object attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}

network-object attributes

```
PUT /axapi/v3/ddos/network-object/a/ip/6.0.0.0%2f8
Payload:
{
    "ip": {
        "subnet-ip-addr": "6.0.0.0/8",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/network-object

network-object-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}

network-object attributes

```
DELETE /axapi/v3/ddos/network-object/a/ip/6.0.0.0%2f8
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

network-object-list

network-object-list is **JSON List** of *network-object attributes*

network-object-list : [

{ *network-object attributes* },

{ *network-object attributes* },

...

]

network-object attributes

anomaly-detection-trigger

Description 'all': Use both learned and static thresholds (static thresholds take precedence); 'static-threshold-only': Use static thresholds only;

Type: string

Supported Values: all, static-threshold-only

Default: all

enable-top-k

Type: List

flooding-multiplier

Description multiplier for flooding detection threshold in network objects (default 2x threshold)

Type: number

Range: 2-10

Default: 2

histogram-mode

Description 'off': histogram feature disabled; 'monitor': histogram feature enabled with anomaly escalation; 'observe': histogram feature enabled and observe only;

Type: string

Supported Values: off, monitor, observe

Default: observe

host-anomaly-threshold

Description: host-anomaly-threshold is a **JSON Block**. Please see below for *host-anomaly-threshold*

Type: Object

host-sport-discovery

Description 'enable': Enable source port discovery.; 'disable': Disable source port discovery.;

Type: string

Supported Values: enable, disable

indicators-to-monitor

Description: indicators-to-monitor is a **JSON Block**. Please see below for *indicators-to-monitor*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/indicators-to-monitor*

ip-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}*

ipv6-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}*

network-object-anomaly-threshold

Description: network-object-anomaly-threshold is a **JSON Block**. Please see below for *network-object-anomaly-threshold*

Type: Object

notification

Description: notification is a **JSON Block**. Please see below for *notification*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/notification*

object-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

operational-mode

Description 'monitor': Monitor mode; 'learning': Learning mode;

Type: string

Supported Values: monitor, learning

Default: learning

relative-auto-break-down-threshold

Description: relative-auto-break-down-threshold is a **JSON Block**. Please see below for *relative-auto-break-down-threshold*

Type: Object

sampling-enable

Type: List

service-break-down-threshold-local

Description: service-break-down-threshold-local is a **JSON Block**. Please see below for *service-break-down-threshold-local*

Type: Object

service-discovery

Description 'disable': Disable service discovery for hosts (default: enabled);

Type: string

Supported Values: disable

sport-anomaly-detection

Description 'disable': Disable source port anomaly detection (default: enabled);

Type: string

Supported Values: disable

sport-anomaly-threshold

Description: sport-anomaly-threshold is a **JSON Block**. Please see below for *sport-anomaly-threshold*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold*

sport-discovery-threshold

Description: sport-discovery-threshold is a **JSON Block**. Please see below for *sport-discovery-threshold*

Type: Object

sport-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport/{port-num}+{protocol}*

static-auto-break-down-threshold

Description: static-auto-break-down-threshold is a **JSON Block**. Please see below for *static-auto-break-down-threshold*

Type: Object

sub-network

Description: sub-network is a **JSON Block**. Please see below for *sub-network*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sub-network*

threshold-sensitivity

Description 'LOW': LOW; 'MEDIUM': MEDIUM; 'HIGH': HIGH; 'OFF': OFF;

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Default: OFF

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/topk-destinations*

trustlist

Description: trustlist is a **JSON Block**. Please see below for *trustlist*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/trustlist*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service-break-down-threshold-local

Specification	Value
Type	*object*

svc-percentage

Description percentage of parent ip node

Type: number

Range: 5-99

network-object-anomaly-threshold

Specification	Value
Type	*object*

network-object-bit-rate

Description Bit rate of the network-object

Type: number

Range: 800-87960930222080

network-object-pkt-rate

Description Packet rate of the network-object

Type: number

Range: 1-10995116277760

indicators-to-monitor

Specification	Value
Type	*object*

enable

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-bit-rate

Description Forward bit rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-fin-rate

Description FIN packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-flow-count

Description Flow count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-icmp-pkt-rate

Description ICMP packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-pkt-rate

Description Forward packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-rev-bit-rate

Description Reverse bit rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-rev-pkt-rate

Description Reverse packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-rst-rate

Description RST packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-syn-rate

Description SYN packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-tcp-pkt-rate

Description TCP packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-udp-pkt-rate

Description UDP packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-undiscovered-pkt-rate

Description Undiscovered forward packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

trustlist

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-class-list

Description IPv4 Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

v6-class-list

Description IPv6 Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

relative-auto-break-down-threshold

Specification	Value
Type	*object*

network-percentage

Description percentage of parent node

Type: number

Range: 1-99

permil

Description permil of root node

Type: number

Range: 1-999

host-anomaly-threshold

Specification	Value
Type	*object*

host-bit-rate

Description Forward bit rate of per host

Type: number

Range: 800-34359738360

host-fin-rate

Description FIN packet rate of per host

Type: number

Range: 1-2147483647

host-flow-count

Description Flow count of per host

Type: number

Range: 1-2147483647

host-icmp-pkt-rate

Description ICMP packet rate of per host

Type: number

Range: 1-2147483647

host-pkt-rate

Description Forward packet rate of per host

Type: number

Range: 1-2147483647

host-rev-bit-rate

Description Reverse bit rate of per host

Type: number

Range: 800-34359738360

host-rev-pkt-rate

Description Reverse packet rate of per host

Type: number

Range: 1-2147483647

host-rst-rate

Description RST packet rate of per host

Type: number

Range: 1-2147483647

host-syn-rate

Description SYN packet rate of per host

Type: number

Range: 1-2147483647

host-tcp-pkt-rate

Description Tcp packet rate of per host

Type: number

Range: 1-2147483647

host-udp-pkt-rate

Description Udp packet rate of per host

Type: number

Range: 1-2147483647

host-undiscovered-host-bit-rate

Description Forward bit rate of per undiscovered host

Type: number

Range: 800-34359738360

host-undiscovered-host-pkt-rate

Description forward packet rate of per undiscovered host

Type: number

Range: 1-2147483647

host-undiscovered-pkt-rate

Description Undiscovered forward packet rate of per host

Type: number

Range: 1-2147483647

sub-network

Specification	Value
Type	*object*

sub-network-v4-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}*

sub-network-v6-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}*

sub-network_sub-network-v4-list

Specification	Value
Type	*list*
Block object keys	

breakdown-subnet-threshold

Description: breakdown-subnet-threshold is a **JSON Block**. Please see below for *sub-network_sub-network-v4-list_breakdown-subnet-threshold*

Type: Object

host-anomaly-threshold

Description: host-anomaly-threshold is a **JSON Block**. Please see below for *sub-network_sub-network-v4-list_host-anomaly-threshold*

Type: Object

sampling-enable

Type: List

sub-network-anomaly-threshold

Description: sub-network-anomaly-threshold is a **JSON Block**. Please see below for *sub-network_sub-network-v4-list_sub-network-anomaly-threshold*

Type: Object

subnet-breakdown

Description additional layer of breakdown subnet

Type: number

Range: 25-31

subnet-ip-addr

Description IPv4 Subnet/host, supported prefix range is from 24 to 32

Type: string

Format: ipv4-cidr

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sub-network_sub-network-v4-list_sub-network-anomaly-threshold

Specification	Value
Type	*object*

static-sub-network-bit-rate

Description Bit rate of the sub-network

Type: number

Range: 800-34359738360

static-sub-network-pkt-rate

Description Packet rate of the sub-network

Type: number

Range: 1-2147483647

sub-network_sub-network-v4-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_rate': PPS; 'bit_rate': B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

sub-network_sub-network-v4-list_breakdown-subnet-threshold

Specification	Value
Type	*object*

breakdown-subnet-bit-rate

Description Bit rate of per host

Type: number

Range: 800-34359738360

breakdown-subnet-pkt-rate

Description Packet rate of per host

Type: number

Range: 1-2147483647

sub-network_sub-network-v4-list_host-anomaly-threshold

Specification	Value
Type	*object*

static-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-fin-rate-threshold

Description FIN packet rate of per host

Type: number

Range: 1-2147483647

static-flow-count-threshold

Description Flow count of per host

Type: number

Range: 1-2147483647

static-icmp-pkt-rate-threshold

Description ICMP packet rate of per host

Type: number

Range: 1-2147483647

static-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rev-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-rev-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rst-rate-threshold

Description RST packet rate of per host

Type: number

Range: 1-2147483647

static-syn-rate-threshold

Description SYN packet rate of per host

Type: number

Range: 1-2147483647

static-tcp-pkt-rate-threshold

Description TCP packet rate of per host

Type: number

Range: 1-2147483647

static-udp-pkt-rate-threshold

Description UDP packet rate of per host

Type: number

Range: 1-2147483647

static-undiscovered-host-bit-rate-threshold

Description Bit rate of per undiscovered host

Type: number

Range: 800-34359738360

static-undiscovered-host-pkt-rate-threshold

Description packet rate of per undiscovered host

Type: number

Range: 1-2147483647

static-undiscovered-pkt-rate-threshold

Description Undiscovered packet rate of per host

Type: number

Range: 1-2147483647

sub-network_sub-network-v6-list

Specification	Value
Type	*list*
Block object keys	

host-anomaly-threshold

Description: host-anomaly-threshold is a **JSON Block**. Please see below for *sub-network_sub-network-v6-list_host-anomaly-threshold*

Type: Object

sampling-enable

Type: List

sub-network-anomaly-threshold

Description: sub-network-anomaly-threshold is a **JSON Block**. Please see below for *sub-network_sub-network-v6-list_sub-network-anomaly-threshold*

Type: Object

subnet-breakdown

Description additional layer of breakdown subnet

Type: number

Range: 57-63

subnet-ipv6-addr

Description IPv6 Subnet/host, supported prefix range is from 56 to 64

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sub-network_sub-network-v6-list_sub-network-anomaly-threshold

Specification	Value
Type	*object*

static-sub-network-bit-rate

Description Bit rate of the sub-network

Type: number

Range: 800-34359738360

static-sub-network-pkt-rate

Description Packet rate of the sub-network

Type: number

Range: 1-2147483647

sub-network_sub-network-v6-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_rate': PPS; 'bit_rate': B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

sub-network_sub-network-v6-list_host-anomaly-threshold

Specification	Value
Type	*object*

static-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-fin-rate-threshold

Description FIN packet rate of per host

Type: number

Range: 1-2147483647

static-flow-count-threshold

Description Flow count of per host

Type: number

Range: 1-2147483647

static-icmp-pkt-rate-threshold

Description ICMP packet rate of per host

Type: number

Range: 1-2147483647

static-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rev-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-rev-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rst-rate-threshold

Description RST packet rate of per host

Type: number

Range: 1-2147483647

static-syn-rate-threshold

Description SYN packet rate of per host

Type: number

Range: 1-2147483647

static-tcp-pkt-rate-threshold

Description TCP packet rate of per host

Type: number

Range: 1-2147483647

static-udp-pkt-rate-threshold

Description UDP packet rate of per host

Type: number

Range: 1-2147483647

static-undiscovered-host-bit-rate-threshold

Description Bit rate of per undiscovered host

Type: number

Range: 800-34359738360

static-undiscovered-host-pkt-rate-threshold

Description packet rate of per undiscovered host

Type: number

Range: 1-2147483647

static-undiscovered-pkt-rate-threshold

Description Undiscovered packet rate of per host

Type: number

Range: 1-2147483647

notification

Specification	Value
Type	*object*

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

notification

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

notification_notification

Specification	Value
Type	*list*
Block object keys	

notification-template-name

Description Specify the notification template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/notification-template*

topk-destinations

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sport-discovery-threshold

Specification	Value
Type	*object*

sport-discovery-bit-rate-percentage

Description Percentage of the bit rate of source port's parent entry (default: 5)

Type: number

Range: 0-99

sport-heavy-hitter-percentage

Description Percentage of the bit rate of undiscovered source ports (default: 50)

Type: number

Range: 0-99

Default: 10

sport-list

Specification	Value
Type	*list*
Block object keys	

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-list

Specification	Value
Type	*list*
Block object keys	

prefix-anomaly-threshold

Description: prefix-anomaly-threshold is a **JSON Block**. Please see below for *ip-list_prefix-anomaly-threshold*

Type: Object

sampling-enable

Type: List

subnet-ip-addr

Description IP Subnet, supported prefix range is from 8 to 31

Type: string

Format: ipv4-cidr

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-list_prefix-anomaly-threshold

Specification	Value
Type	*object*

prefix-bit-rate

Description Bit rate of the prefix subnet

Type: number

Range: 800-34359738360

prefix-pkt-rate

Description Packet rate of the prefix subnet

Type: number

Range: 1-2147483647

ip-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_rate': PPS; 'bit_rate': B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

sport-anomaly-threshold

Specification	Value
Type	*object*

bit-rate

Description: bit-rate is a **JSON Block**. Please see below for *sport-anomaly-threshold_bit-rate*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate*

bit-rate-percentage

Description: bit-rate-percentage is a **JSON Block**. Please see below for *sport-anomaly-threshold_bit-rate-percentage*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate-percentage*

ip-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ip/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}*

ipv6-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ipv6/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}*

packet-rate

Description: packet-rate is a **JSON Block**. Please see below for *sport-anomaly-threshold_packet-rate*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate*

packet-rate-percentage

Description: packet-rate-percentage is a **JSON Block**. Please see below for *sport-anomaly-threshold_packet-rate-percentage*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate-percentage*

sport-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/sport/{sport-num}+{protocol}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}*

sport-anomaly-threshold_bit-rate-percentage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

sport-anomaly-threshold_bit-rate

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

sport-anomaly-threshold_sport-list

Specification	Value
Type	*list*
Block object keys	

bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

sport-num

Description Source port number

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sport-anomaly-threshold_ip-list

Specification	Value
Type	*list*
Block object keys	

bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-addr

Description Override threshold

Type: string

Format: ipv4-address

ip-sport-bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

ip-sport-bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

ip-sport-bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-sport-packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

ip-sport-packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

ip-sport-packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

sport-num

Description Source port number

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sport-anomaly-threshold_ipv6-list

Specification	Value
Type	*list*
Block object keys	

bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-addr

Description Override threshold

Type: string

Format: ipv6-address-plen

ip-sport-bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

ip-sport-bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

ip-sport-bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-sport-packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

ip-sport-packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

ip-sport-packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

sport-num

Description Source port number

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sport-anomaly-threshold_packet-rate

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

sport-anomaly-threshold_packet-rate-percentage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

static-auto-break-down-threshold

Specification	Value
Type	*object*

network-pkt-rate

Description packet rate of current node

Type: number

Range: 100-2000000

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'subnet_learned': Subnet Entry Learned; 'subnet_aged': Subnet Entry Aged; 'subnet_create_fail': Subnet Entry Create Failures; 'ip_learned': IP Entry Learned; 'ip_aged': IP Entry Aged; 'ip_create_fail': IP Entry Create Failures; 'service_learned': Service Entry Learned; 'service_aged': Service Entry Aged; 'service_create_fail': Service Entry Create Failures; 'packet_rate': PPS; 'bit_rate': B(bits)PS; 'topk_allocate_fail': Topk Allocate Failures; 'sport_learned': Source Port Entry Learned; 'sport_aged': Source Port Entry Aged; 'sport_create_fail': Source Port Entry Create Failures;

Type: string

Supported Values: all, subnet_learned, subnet_aged, subnet_create_fail, ip_learned, ip_aged, ip_create_fail, service_learned, service_aged, service_create_fail, packet_rate, bit_rate,

topk_allocate_fail, sport_learned, sport_aged, sport_create_fail, agent_group_learned, agent_group_aged, agent_group_create_fail, duplicate_sample_pkt_rcv

enable-top-k

Specification	Value
Type	*list*
Block object keys	

topk-dst-num-records

Description Maximum number of records to show in topk

Type: number

Range: 1-100

Default: 20

topk-sort-key

Description 'average': window average; 'max-peak': max peak;

Type: string

Supported Values: average, max-peak

Default: average

topk-type

Description 'destination': Topk destination IP;

Type: string

Supported Values: destination

ipv6-list

Specification	Value
Type	*list*
Block object keys	

prefix-anomaly-threshold

Description: prefix-anomaly-threshold is a **JSON Block**. Please see below for *ipv6-list_prefix-anomaly-threshold*

Type: Object

sampling-enable

Type: List

subnet-ipv6-addr

Description IPV6 Subnet, supported prefix range is from 40 to 63

Type: string

Format: ipv6-address-plen

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6-list_prefix-anomaly-threshold

Specification	Value
Type	*object*

prefix-bit-rate

Description Bit rate of the prefix subnet

Type: number

Range: 800-34359738360

prefix-pkt-rate

Description Packet rate of the prefix subnet

Type: number

Range: 1-2147483647

ipv6-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_rate': PPS; 'bit_rate': B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

2.33.388 ddos network-object indicators-to-monitor

Configure monitoring of indicators for anomaly based on ONLY adaptive threshold

indicators-to-monitor Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	indicators-to-monitor
Element URI	/axapi/v3/ddos/network-object/{object-name}/indicators-to-monitor
Element Attributes	indicators-to-monitor_attributes
Partition Visibility	shared
Schema	`indicators-to-monitor schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/indicators-to-monitor

indicators-to-monitor attributes

```
POST /axapi/v3/ddos/network-object/a/indicators-to-monitor
Payload:
{
    "indicators-to-monitor": {
        "enable": 1,
        "monitor-pkt-rate": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/indicators-to-monitor

indicators-to-monitor attributes

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/indicators-to-monitor

indicators-to-monitor attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/indicators-to-monitor

indicators-to-monitor attributes

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/indicators-to-monitor

indicators-to-monitor attributes

indicators-to-monitor attributes

enable

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-bit-rate

Description Forward bit rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-fin-rate

Description FIN packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-flow-count

Description Flow count

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-icmp-pkt-rate

Description ICMP packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-pkt-rate

Description Forward packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-rev-bit-rate

Description Reverse bit rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-rev-pkt-rate

Description Reverse packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-rst-rate

Description RST packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-syn-rate

Description SYN packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-tcp-pkt-rate

Description TCP packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-udp-pkt-rate

Description UDP packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

monitor-undiscovered-pkt-rate

Description Undiscovered forward packet rate

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.389 ddos network-object ip

DDOS Network-object IPv4 Subnet

ip Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*subnet-ip-addr*
Collection Name	*ip-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}/ip
Element Name	ip
Element URI	/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}
Element Attributes	ip_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}/stats
Schema	`ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/ip

ip attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}/ip

ip attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}

ip attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}/ip

ip-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}

ip attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}

ip attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}/ip

ip-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}

ip attributes

ip-list

ip-list is **JSON List** of *ip attributes*

```
ip-list : [
        { ip attributes },
        { ip attributes },
        ...
    ]
```

ip attributes

prefix-anomaly-threshold

Description: prefix-anomaly-threshold is a **JSON Block**. Please see below for *prefix-anomaly-threshold*

Type: Object

sampling-enable

Type: List

subnet-ip-addr

Description IP Subnet, supported prefix range is from 8 to 31

Type: string

Format: ipv4-cidr

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

prefix-anomaly-threshold

Specification	Value
Type	*object*

prefix-bit-rate

Description Bit rate of the prefix subnet

Type: number

Range: 800-34359738360

prefix-pkt-rate

Description Packet rate of the prefix subnet

Type: number

Range: 1-2147483647

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_rate': PPS; 'bit_rate': B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

2.33.390 ddos network-object ip stats

Statistics for the object ip

ip Specification

Parameter	Value
Type	*Collection*
Collection Name	*ip-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}
Element Name	ip
Element URI	/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}/stats
Element Attributes	ip_attributes
Partition Visibility	None
Schema	`ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}

ip attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}

ip attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}/stats

ip attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}

ip-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}/stats

ip attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}/stats

ip attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}

ip-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}/stats

ip attributes

ip-list

ip-list is **JSON List** of *ip attributes*

ip-list : [

{ *ip attributes* },

{ *ip attributes* },

...

]

ip attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

subnet-ip-addr

Description IP Subnet, supported prefix range is from 8 to 31

Type: string

Format: ipv4-cidr

stats

Specification	Value
Type	*object*

bit_rate

Description B(bits)PS

Type: number

Format: counter

packet_rate

Description PPS

Type: number

Format: counter

2.33.391 ddos network-object ipv6

DDOS Network-object IPv6 Subnet

ipv6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*subnet-ipv6-addr*
Collection Name	*ipv6-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}/ipv6
Element Name	ipv6
Element URI	/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}
Element Attributes	ipv6_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}/stats
Schema	`ipv6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/ipv6

ipv6 attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}/ipv6

ipv6 attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}

ipv6 attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}/ipv6

ipv6-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}

ipv6 attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}

ipv6 attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}/ipv6

ipv6-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}

ipv6 attributes

ipv6-list

ipv6-list is **JSON List** of *ipv6 attributes*

```
ipv6-list : [
        { ipv6 attributes },
        { ipv6 attributes },
        ...
    ]
```

ipv6 attributes

prefix-anomaly-threshold

Description: prefix-anomaly-threshold is a **JSON Block**. Please see below for *prefix-anomaly-threshold*

Type: Object

sampling-enable

Type: List

subnet-ipv6-addr

Description IPV6 Subnet, supported prefix range is from 40 to 63

Type: string

Format: ipv6-address-plen

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

prefix-anomaly-threshold

Specification	Value
Type	*object*

prefix-bit-rate

Description Bit rate of the prefix subnet

Type: number

Range: 800-34359738360

prefix-pkt-rate

Description Packet rate of the prefix subnet

Type: number

Range: 1-2147483647

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_rate': PPS; 'bit_rate': B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

2.33.392 ddos network-object ipv6 stats

Statistics for the object ipv6

ipv6 Specification

Parameter	Value
Type	*Collection*
Collection Name	*ipv6-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}
Element Name	ipv6
Element URI	/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}/stats
Element Attributes	ipv6_attributes
Partition Visibility	None
Schema	`ipv6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}

ipv6 attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}

ipv6 attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}/stats

ipv6 attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}

ipv6-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}/stats

ipv6 attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}/stats

ipv6 attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}

ipv6-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/ipv6/{subnet-ipv6-addr}/stats

ipv6 attributes

ipv6-list

ipv6-list is **JSON List** of *ipv6 attributes*

ipv6-list : [

{ *ipv6 attributes* },

{ *ipv6 attributes* },

...

]

ipv6 attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

subnet-ipv6-addr

Description IPV6 Subnet, supported prefix range is from 40 to 63

Type: string

Format: ipv6-address-plen

stats

Specification	Value
Type	*object*

bit_rate

Description B(bits)PS

Type: number

Format: counter

packet_rate

Description PPS

Type: number

Format: counter

2.33.393 ddos network-object notification

DDOS Network-object Notification

notification Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	notification
Element URI	/axapi/v3/ddos/network-object/{object-name}/notification
Element Attributes	notification_attributes
Partition Visibility	shared
Schema	`notification schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/notification

notification attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/notification

notification attributes

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/notification

notification attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/notification

notification attributes

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/notification

notification attributes

notification attributes

configuration

Description 'configuration': configuration;

Type: string

Supported Values: configuration

notification

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

notification

Specification	Value
Type	*list*
Block object keys	

notification-template-name

Description Specify the notification template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/notification-template*

2.33.394 ddos network-object oper

Operational Status for the object network-object

network-object Specification

Parameter	Value
Type	*Collection*
Collection Name	*network-object-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}
Element Name	network-object
Element URI	/axapi/v3/ddos/network-object/{object-name}/oper
Element Attributes	network-object_attributes
Partition Visibility	None
Schema	`network-object schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}

network-object attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}

network-object attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/oper

network-object attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}

network-object-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/oper

network-object attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/oper

network-object attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}

network-object-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/oper

network-object attributes

network-object-list

network-object-list is **JSON List** of *network-object attributes*

network-object-list : [

{ *network-object attributes* },

{ *network-object attributes* },

…

]

network-object attributes

object-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

topk-destinations

Description: topk-destinations is a **JSON Block**. Please see below for *topk-destinations*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/topk-destinations*

oper

Specification	Value
Type	*object*

agent-group-details

Description

Type: boolean

Supported Values: true, false, 1, 0

anomaly-ip-list

Description

Type: boolean

Supported Values: true, false, 1, 0

details

Description

Type: boolean

Supported Values: true, false, 1, 0

discovered-ip-list

Description

Type: boolean

Supported Values: true, false, 1, 0

discovered-list

Description

Type: boolean

Supported Values: true, false, 1, 0

entry-count

Description

Type: number

entry-list

Type: List

ipv4

Description

Type: string

Format: ipv4-address

port-end

Description

Type: number

port-start

Description

Type: number

protocol

Description

Type: number

single-layer-discovered-list

Description

Type: boolean

Supported Values: true, false, 1, 0

sport

Description

Type: boolean

Supported Values: true, false, 1, 0

sport-list

Description

Type: boolean

Supported Values: true, false, 1, 0

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

total-details

Description

Type: boolean

Supported Values: true, false, 1, 0

trusted-details

Description

Type: boolean

Supported Values: true, false, 1, 0

victim-list

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_entry-list

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

agent-group-name

Description

Type: string

children-count

Description

Type: number

de-es-timestamp

Description

Type: string

display-filter

Description

Type: string

es-timestamp

Description

Type: string

histogram-mode

Description

Type: number

indicators

Type: List

is-anomaly

Description

Type: number

is-histogram-learning-done

Description

Type: number

is-learning-done

Description

Type: number

operational-mode

Description

Type: number

port

Description

Type: number

port-range-end

Description

Type: number

port-range-start

Description

Type: number

service-protocol

Description

Type: string

oper_entry-list_indicators

Specification	Value
Type	*list*
Block object keys	

indicator-index

Description

Type: number

indicator-name

Description

Type: string

is-anomaly

Description

Type: number

value

Type: List

oper_entry-list_indicators_value

Specification	Value
Type	*list*
Block object keys	

current

Description

Type: string

max

Description

Type: string

threshold

Description

Type: string

topk-destinations

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *topk-destinations_oper*

Type: Object

topk-destinations_oper

Specification	Value
Type	*object*

indicators

Type: List

reset-time

Description

Type: number

topk-type

Description

Type: number

topk-destinations_oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

topk-destinations_oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.395 ddos network-object sport

Configure per-host source port in a DDos Network Object

sport Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num, protocol*
Collection Name	*sport-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}/sport
Element Name	sport
Element URI	/axapi/v3/ddos/network-object/{object-name}/sport/{port-num}+{protocol}
Element Attributes	sport_attributes
Partition Visibility	shared
Schema	`sport schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport

sport attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}/sport

sport attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sport/{port-num}+{protocol}

sport attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}/sport

sport-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport/{port-num}+{protocol}

sport attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/sport/{port-num}+{protocol}

sport attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}/sport

sport-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/sport/{port-num}+{protocol}

sport attributes

sport-list

sport-list is **JSON List** of *sport attributes*

sport-list : [

{ *sport attributes* },

{ *sport attributes* },

…

]

sport attributes

port-num

Description Port Number

Type: number

Range: 1-65535

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.396 ddos network-object sport-anomaly-threshold

Configure anomaly thresholds applied to source port entries

sport-anomaly-threshold Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	sport-anomaly-threshold
Element URI	/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold
Element Attributes	sport-anomaly-threshold_attributes
Partition Visibility	shared
Schema	`sport-anomaly-threshold schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold

sport-anomaly-threshold_attributes

sport-anomaly-threshold attributes

bit-rate

Description: bit-rate is a **JSON Block**. Please see below for *bit-rate*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate*

bit-rate-percentage

Description: bit-rate-percentage is a **JSON Block**. Please see below for *bit-rate-percentage*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate-percentage*

ip-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ip/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}*

ipv6-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ipv6/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}*

packet-rate

Description: packet-rate is a **JSON Block**. Please see below for *packet-rate*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate*

packet-rate-percentage

Description: packet-rate-percentage is a **JSON Block**. Please see below for *packet-rate-percentage*

Type: Object

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate-percentage*

sport-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/sport/{sport-num}+{protocol}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}*

bit-rate-percentage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

bit-rate

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

sport-list

Specification	Value
Type	*list*
Block object keys	

bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

sport-num

Description Source port number

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-list

Specification	Value
Type	*list*
Block object keys	

bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-addr

Description Override threshold

Type: string

Format: ipv4-address

ip-sport-bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

ip-sport-bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

ip-sport-bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-sport-packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

ip-sport-packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

ip-sport-packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

sport-num

Description Source port number

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6-list

Specification	Value
Type	*list*
Block object keys	

bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-addr

Description Override threshold

Type: string

Format: ipv6-address-plen

ip-sport-bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

ip-sport-bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

ip-sport-bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-sport-packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

ip-sport-packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

ip-sport-packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

sport-num

Description Source port number

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-rate

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

packet-rate-percentage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

2.33.397 ddos network-object sport-anomaly-threshold bit-rate

Bit rate of a source port entry

bit-rate Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	bit-rate
Element URI	/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate
Element Attributes	bit-rate_attributes
Partition Visibility	shared
Schema	`bit-rate schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate

bit-rate attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate

bit-rate attributes

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate

bit-rate attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate

bit-rate attributes

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate

bit-rate attributes

bit-rate attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

2.33.398 ddos network-object sport-anomaly-threshold bit-rate-percentage

Percentage of source port entry's parent entry

bit-rate-percentage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	bit-rate-percentage
Element URI	/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate-percentage
Element Attributes	bit-rate-percentage_attributes
Partition Visibility	shared
Schema	`bit-rate-percentage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate-percentage

bit-rate-percentage attributes

```
POST /axapi/v3/ddos/network-object/a/sport-anomaly-threshold/bit-rate-percentage
Payload:
{
    "bit-rate-percentage": {
        "value": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate-percentage

bit-rate-percentage attributes

```
GET /axapi/v3/ddos/network-object/a/sport-anomaly-threshold/bit-rate-percentage
Reponse:
{
    "bit-rate-percentage": {
        "value": 1,
        "uuid": "0867f512-087f-11f0-b3da-b94ba84d9cdf",
        "a10-url": "/axapi/v3/ddos/network-object/a/sport-anomaly-threshold/bit-rate-
↪percentage"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate-percentage

bit-rate-percentage attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate-percentage

bit-rate-percentage attributes

```
PUT /axapi/v3/ddos/network-object/a/sport-anomaly-threshold/bit-rate-percentage
Payload:
{
    "bit-rate-percentage": {
        "value": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/bit-rate-percentage

bit-rate-percentage attributes

```
DELETE /axapi/v3/ddos/network-object/a/sport-anomaly-threshold/bit-rate-percentage
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

bit-rate-percentage attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

2.33.399 ddos network-object sport-anomaly-threshold ip

Configure anomaly thresholds applied to source port entries of an IP

ip Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ip-addr, packet-rate-str, packet-rate-percentage-str, bit-rate-str, bit-rate-percentage-str, sport-num, protocol, ip-sport-packet-rate-str, ip-sport-packet-rate-percentage-str, ip-sport-bit-rate-str, ip-sport-bit-rate-percentage-str*
Collection Name	*ip-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ip
Element Name	ip
Element URI	/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ip/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}
Element Attributes	ip_attributes
Partition Visibility	shared
Schema	`ip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ip

ip attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ip

ip attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ip/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}

ip attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ip

ip-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ip/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}

ip attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ip/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}

ip attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ip

ip-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ip/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}

ip attributes

ip-list

ip-list is **JSON List** of *ip attributes*

ip-list : [

{ *ip attributes* },

{ *ip attributes* },

...

]

ip attributes

bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-addr

Description Override threshold

Type: string

Format: ipv4-address

ip-sport-bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

ip-sport-bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

ip-sport-bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-sport-packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

ip-sport-packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

ip-sport-packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

sport-num

Description Source port number

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.400 ddos network-object sport-anomaly-threshold ipv6

Configure anomaly thresholds applied to source port entries of an IPv6/64 address

ipv6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ip-addr, packet-rate-str, packet-rate-percentage-str, bit-rate-str, bit-rate-percentage-str, sport-num, protocol, ip-sport-packet-rate-str, ip-sport-packet-rate-percentage-str, ip-sport-bit-rate-str, ip-sport-bit-rate-percentage-str*
Collection Name	*ipv6-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ipv6
Element Name	ipv6
Element URI	/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ipv6/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}
Element Attributes	ipv6_attributes
Partition Visibility	shared
Schema	`ipv6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ipv6

ipv6 attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ipv6

ipv6 attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ipv6/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}

ipv6 attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ipv6

ipv6-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ipv6/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}

ipv6 attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ipv6/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}

ipv6 attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ipv6

ipv6-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/ipv6/{ip-addr}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}+{sport-num}+{protocol}+{ip-sport-packet-rate-str}+{ip-sport-packet-rate-percentage-str}+{ip-sport-bit-rate-str}+{ip-sport-bit-rate-percentage-str}

ipv6 attributes

ipv6-list

ipv6-list is **JSON List** of *ipv6 attributes*

```
ipv6-list : [
        { ipv6 attributes },
        { ipv6 attributes },
        ...
    ]
```

ipv6 attributes

bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-addr

Description Override threshold

Type: string

Format: ipv6-address-plen

ip-sport-bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

ip-sport-bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

ip-sport-bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

ip-sport-packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

ip-sport-packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

ip-sport-packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

ip-sport-packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

sport-num

Description Source port number

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.401 ddos network-object sport-anomaly-threshold packet-rate

Packet rate of a source port entry

packet-rate Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	packet-rate
Element URI	/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate
Element Attributes	packet-rate_attributes
Partition Visibility	shared
Schema	`packet-rate schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate

packet-rate attributes

```
POST /axapi/v3/ddos/network-object/a/sport-anomaly-threshold/packet-rate
Payload:
{
    "packet-rate": {
        "value": 1
```

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```
    }
}
```

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate

packet-rate attributes

```
GET /axapi/v3/ddos/network-object/a/sport-anomaly-threshold/packet-rate
Reponse:
{
    "packet-rate": {
        "value": 1,
        "uuid": "3a758d30-087f-11f0-b3da-b94ba84d9cdf",
        "a10-url": "/axapi/v3/ddos/network-object/a/sport-anomaly-threshold/packet-rate"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate

packet-rate attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate

packet-rate attributes

```
PUT /axapi/v3/ddos/network-object/a/sport-anomaly-threshold/packet-rate
Payload:
{
    "packet-rate": {
        "value": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate

packet-rate attributes

```
DELETE /axapi/v3/ddos/network-object/a/sport-anomaly-threshold/packet-rate
Reponse:
{
```

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```
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

packet-rate attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

2.33.402 ddos network-object sport-anomaly-threshold packet-rate-percentage

Percentage of source port entry's parent entry

packet-rate-percentage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	packet-rate-percentage
Element URI	/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate-percentage
Element Attributes	packet-rate-percentage_attributes
Partition Visibility	shared
Schema	`packet-rate-percentage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate-percentage

packet-rate-percentage attributes

```
POST /axapi/v3/ddos/network-object/a/sport-anomaly-threshold/packet-rate-percentage
Payload:
{
    "packet-rate-percentage": {
        "value": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate-percentage

packet-rate-percentage attributes

```
GET /axapi/v3/ddos/network-object/a/sport-anomaly-threshold/packet-rate-percentage
Reponse:
{
    "packet-rate-percentage": {
        "value": 1,
        "uuid": "48f5d2a2-087f-11f0-b3da-b94ba84d9cdf",
        "a10-url": "/axapi/v3/ddos/network-object/a/sport-anomaly-threshold/packet-rate-
↪percentage"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate-percentage

packet-rate-percentage attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate-percentage

packet-rate-percentage attributes

```
PUT /axapi/v3/ddos/network-object/a/sport-anomaly-threshold/packet-rate-percentage
Payload:
{
    "packet-rate-percentage": {
        "value": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/packet-rate-percentage

packet-rate-percentage attributes

```
DELETE /axapi/v3/ddos/network-object/a/sport-anomaly-threshold/packet-rate-percentage
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

packet-rate-percentage attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

2.33.403 ddos network-object sport-anomaly-threshold sport

Configure anomaly thresholds applied to a specified source port entry of an IP

sport Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*sport-num, protocol, packet-rate-str, packet-rate-percentage-str, bit-rate-str, bit-rate-percentage-str*
Collection Name	*sport-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/sport
Element Name	sport
Element URI	/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/sport/{sport-num}+{protocol}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}
Element Attributes	sport_attributes
Partition Visibility	shared
Schema	`sport schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/sport

sport attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/sport

sport attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/sport/{sport-num}+{protocol}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}

sport attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/sport

sport-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/sport/{sport-num}+{protocol}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}

sport attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/sport/{sport-num}+{protocol}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}

sport attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/sport

sport-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/sport-anomaly-threshold/sport/{sport-num}+{protocol}+{packet-rate-str}+{packet-rate-percentage-str}+{bit-rate-str}+{bit-rate-percentage-str}

sport attributes

sport-list

sport-list is **JSON List** of *sport attributes*

sport-list : [

{ *sport attributes* },

{ *sport attributes* },

…

]

sport attributes

bit-rate

Description Bit rate of a source port entry

Type: number

Range: 800-34359738360

bit-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

bit-rate-percentage-str

Description 'bit-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: bit-rate-percentage

bit-rate-str

Description 'bit-rate': Bit rate of a source port entry;

Type: string

Supported Values: bit-rate

packet-rate

Description Packet rate of a source port entry

Type: number

Range: 1-2147483647

packet-rate-percentage

Description Percentage of source port entry's parent entry

Type: number

Range: 1-99

packet-rate-percentage-str

Description 'packet-rate-percentage': Percentage of source port entry's parent entry;

Type: string

Supported Values: packet-rate-percentage

packet-rate-str

Description 'packet-rate': Packet rate of a source port entry;

Type: string

Supported Values: packet-rate

protocol

Description 'udp': UDP port; 'tcp': TCP Port;

Type: string

Supported Values: udp, tcp

sport-num

Description Source port number

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.404 ddos network-object stats

Statistics for the object network-object

network-object Specification

Parameter	Value
Type	*Collection*
Collection Name	*network-object-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}
Element Name	network-object
Element URI	/axapi/v3/ddos/network-object/{object-name}/stats
Element Attributes	network-object_attributes
Partition Visibility	None
Schema	`network-object schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}

network-object attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}

network-object attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/stats

network-object attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}

network-object-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/stats

network-object attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/stats

network-object attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}

network-object-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/stats

network-object attributes

network-object-list

network-object-list is **JSON List** of *network-object attributes*

network-object-list : [

{ *network-object attributes* },

{ *network-object attributes* },

…

]

network-object attributes

ip-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}*

ipv6-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/ip/{subnet-ip-addr}/ipv6/{subnet-ipv6-addr}*

object-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

agent_group_aged

Description Agent Group Entry Aged

Type: number

Format: counter

agent_group_create_fail

Description Agent Group Entry Create Failures

Type: number

Format: counter

agent_group_learned

Description Agent Group Entry Learned

Type: number

Format: counter

bit_rate

Description B(bits)PS

Type: number

Format: counter

duplicate_sample_pkt_rcv

Description Duplicate Sample Packet Received

Type: number

Format: counter

ip_aged

Description IP Entry Aged

Type: number

Format: counter

ip_create_fail

Description IP Entry Create Failures

Type: number

Format: counter

ip_learned

Description IP Entry Learned

Type: number

Format: counter

packet_rate

Description PPS

Type: number

Format: counter

service_aged

Description Service Entry Aged

Type: number

Format: counter

service_create_fail

Description Service Entry Create Failures

Type: number

Format: counter

service_learned

Description Service Entry Learned

Type: number

Format: counter

sport_aged

Description Source Port Entry Aged

Type: number

Format: counter

sport_create_fail

Description Source Port Entry Create Failures

Type: number

Format: counter

sport_learned

Description Source Port Entry Learned

Type: number

Format: counter

subnet_aged

Description Subnet Entry Aged

Type: number

Format: counter

subnet_create_fail

Description Subnet Entry Create Failures

Type: number

Format: counter

subnet_learned

Description Subnet Entry Learned

Type: number

Format: counter

topk_allocate_fail

Description Topk Allocate Failures

Type: number

Format: counter

ip-list

Specification	Value
Type	*list*
Block object keys	

stats

Description: stats is a **JSON Block**. Please see below for *ip-list_stats*

Type: Object

subnet-ip-addr

Description IP Subnet, supported prefix range is from 8 to 31

Type: string

Format: ipv4-cidr

ip-list_stats

Specification	Value
Type	*object*

bit_rate

Description B(bits)PS

Type: number

Format: counter

packet_rate

Description PPS

Type: number

Format: counter

ipv6-list

Specification	Value
Type	*list*
Block object keys	

stats

Description: stats is a **JSON Block**. Please see below for *ipv6-list_stats*

Type: Object

subnet-ipv6-addr

Description IPV6 Subnet, supported prefix range is from 40 to 63

Type: string

Format: ipv6-address-plen

ipv6-list_stats

Specification	Value
Type	*object*

bit_rate

Description B(bits)PS

Type: number

Format: counter

packet_rate

Description PPS

Type: number

Format: counter

2.33.405 ddos network-object sub-network

Configure sub-network in a DDos Network Object

sub-network Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	sub-network
Element URI	/axapi/v3/ddos/network-object/{object-name}/sub-network
Element Attributes	sub-network_attributes
Partition Visibility	shared
Schema	`sub-network schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sub-network

sub-network_attributes

sub-network attributes

sub-network-v4-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}*

sub-network-v6-list

Type: List

Reference Object: */axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}*

sub-network-v4-list

Specification	Value
Type	*list*
Block object keys	

breakdown-subnet-threshold

Description: breakdown-subnet-threshold is a **JSON Block**. Please see below for *sub-network-v4-list_breakdown-subnet-threshold*

Type: Object

host-anomaly-threshold

Description: host-anomaly-threshold is a **JSON Block**. Please see below for *sub-network-v4-list_host-anomaly-threshold*

Type: Object

sampling-enable

Type: List

sub-network-anomaly-threshold

Description: sub-network-anomaly-threshold is a **JSON Block**. Please see below for *sub-network-v4-list_sub-network-anomaly-threshold*

Type: Object

subnet-breakdown

Description additional layer of breakdown subnet

Type: number

Range: 25-31

subnet-ip-addr

Description IPv4 Subnet/host, supported prefix range is from 24 to 32

Type: string

Format: ipv4-cidr

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sub-network-v4-list_sub-network-anomaly-threshold

Specification	Value
Type	*object*

static-sub-network-bit-rate

Description Bit rate of the sub-network

Type: number

Range: 800-34359738360

static-sub-network-pkt-rate

Description Packet rate of the sub-network

Type: number

Range: 1-2147483647

sub-network-v4-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description ‘all’: all; ‘packet_rate’: PPS; ‘bit_rate’: B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

sub-network-v4-list_breakdown-subnet-threshold

Specification	Value
Type	*object*

breakdown-subnet-bit-rate

Description Bit rate of per host

Type: number

Range: 800-34359738360

breakdown-subnet-pkt-rate

Description Packet rate of per host

Type: number

Range: 1-2147483647

sub-network-v4-list_host-anomaly-threshold

Specification	Value
Type	*object*

static-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-fin-rate-threshold

Description FIN packet rate of per host

Type: number

Range: 1-2147483647

static-flow-count-threshold

Description Flow count of per host

Type: number

Range: 1-2147483647

static-icmp-pkt-rate-threshold

Description ICMP packet rate of per host

Type: number

Range: 1-2147483647

static-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rev-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-rev-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rst-rate-threshold

Description RST packet rate of per host

Type: number

Range: 1-2147483647

static-syn-rate-threshold

Description SYN packet rate of per host

Type: number

Range: 1-2147483647

static-tcp-pkt-rate-threshold

Description TCP packet rate of per host

Type: number

Range: 1-2147483647

static-udp-pkt-rate-threshold

Description UDP packet rate of per host

Type: number

Range: 1-2147483647

static-undiscovered-host-bit-rate-threshold

Description Bit rate of per undiscovered host

Type: number

Range: 800-34359738360

static-undiscovered-host-pkt-rate-threshold

Description packet rate of per undiscovered host

Type: number

Range: 1-2147483647

static-undiscovered-pkt-rate-threshold

Description Undiscovered packet rate of per host

Type: number

Range: 1-2147483647

sub-network-v6-list

Specification	Value
Type	*list*
Block object keys	

host-anomaly-threshold

Description: host-anomaly-threshold is a **JSON Block**. Please see below for *sub-network-v6-list_host-anomaly-threshold*

Type: Object

sampling-enable

Type: List

sub-network-anomaly-threshold

Description: sub-network-anomaly-threshold is a **JSON Block**. Please see below for *sub-network-v6-list_sub-network-anomaly-threshold*

Type: Object

subnet-breakdown

Description additional layer of breakdown subnet

Type: number

Range: 57-63

subnet-ipv6-addr

Description IPv6 Subnet/host, supported prefix range is from 56 to 64

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sub-network-v6-list_sub-network-anomaly-threshold

Specification	Value
Type	*object*

static-sub-network-bit-rate

Description Bit rate of the sub-network

Type: number

Range: 800-34359738360

static-sub-network-pkt-rate

Description Packet rate of the sub-network

Type: number

Range: 1-2147483647

sub-network-v6-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_rate': PPS; 'bit_rate': B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

sub-network-v6-list_host-anomaly-threshold

Specification	Value
Type	*object*

static-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-fin-rate-threshold

Description FIN packet rate of per host

Type: number

Range: 1-2147483647

static-flow-count-threshold

Description Flow count of per host

Type: number

Range: 1-2147483647

static-icmp-pkt-rate-threshold

Description ICMP packet rate of per host

Type: number

Range: 1-2147483647

static-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rev-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-rev-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rst-rate-threshold

Description RST packet rate of per host

Type: number

Range: 1-2147483647

static-syn-rate-threshold

Description SYN packet rate of per host

Type: number

Range: 1-2147483647

static-tcp-pkt-rate-threshold

Description TCP packet rate of per host

Type: number

Range: 1-2147483647

static-udp-pkt-rate-threshold

Description UDP packet rate of per host

Type: number

Range: 1-2147483647

static-undiscovered-host-bit-rate-threshold

Description Bit rate of per undiscovered host

Type: number

Range: 800-34359738360

static-undiscovered-host-pkt-rate-threshold

Description packet rate of per undiscovered host

Type: number

Range: 1-2147483647

static-undiscovered-pkt-rate-threshold

Description Undiscovered packet rate of per host

Type: number

Range: 1-2147483647

2.33.406 ddos network-object sub-network sub-network-v4

Configure sub-network in a DDos Network Object

sub-network-v4 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*subnet-ip-addr*
Collection Name	*sub-network-v4-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4
Element Name	sub-network-v4
Element URI	/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}
Element Attributes	sub-network-v4_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}/stats
Schema	`sub-network-v4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4

sub-network-v4 attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4

sub-network-v4 attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}

sub-network-v4 attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4

sub-network-v4-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}

sub-network-v4 attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}

sub-network-v4 attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4

sub-network-v4-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}

sub-network-v4 attributes

sub-network-v4-list

sub-network-v4-list is **JSON List** of *sub-network-v4 attributes*

```
sub-network-v4-list : [
        { sub-network-v4 attributes },
        { sub-network-v4 attributes },
        ...
    ]
```

sub-network-v4 attributes

breakdown-subnet-threshold

Description: breakdown-subnet-threshold is a **JSON Block**. Please see below for *breakdown-subnet-threshold*

Type: Object

host-anomaly-threshold

Description: host-anomaly-threshold is a **JSON Block**. Please see below for *host-anomaly-threshold*

Type: Object

sampling-enable

Type: List

sub-network-anomaly-threshold

Description: sub-network-anomaly-threshold is a **JSON Block**. Please see below for *sub-network-anomaly-threshold*

Type: Object

subnet-breakdown

Description additional layer of breakdown subnet

Type: number

Range: 25-31

subnet-ip-addr

Description IPv4 Subnet/host, supported prefix range is from 24 to 32

Type: string

Format: ipv4-cidr

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sub-network-anomaly-threshold

Specification	Value
Type	*object*

static-sub-network-bit-rate

Description Bit rate of the sub-network

Type: number

Range: 800-34359738360

static-sub-network-pkt-rate

Description Packet rate of the sub-network

Type: number

Range: 1-2147483647

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_rate': PPS; 'bit_rate': B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

breakdown-subnet-threshold

Specification	Value
Type	*object*

breakdown-subnet-bit-rate

Description Bit rate of per host

Type: number

Range: 800-34359738360

breakdown-subnet-pkt-rate

Description Packet rate of per host

Type: number

Range: 1-2147483647

host-anomaly-threshold

Specification	Value
Type	*object*

static-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-fin-rate-threshold

Description FIN packet rate of per host

Type: number

Range: 1-2147483647

static-flow-count-threshold

Description Flow count of per host

Type: number

Range: 1-2147483647

static-icmp-pkt-rate-threshold

Description ICMP packet rate of per host

Type: number

Range: 1-2147483647

static-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rev-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-rev-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rst-rate-threshold

Description RST packet rate of per host

Type: number

Range: 1-2147483647

static-syn-rate-threshold

Description SYN packet rate of per host

Type: number

Range: 1-2147483647

static-tcp-pkt-rate-threshold

Description TCP packet rate of per host

Type: number

Range: 1-2147483647

static-udp-pkt-rate-threshold

Description UDP packet rate of per host

Type: number

Range: 1-2147483647

static-undiscovered-host-bit-rate-threshold

Description Bit rate of per undiscovered host

Type: number

Range: 800-34359738360

static-undiscovered-host-pkt-rate-threshold

Description packet rate of per undiscovered host

Type: number

Range: 1-2147483647

static-undiscovered-pkt-rate-threshold

Description Undiscovered packet rate of per host

Type: number

Range: 1-2147483647

2.33.407 ddos network-object sub-network sub-network-v4 stats

Statistics for the object sub-network-v4

sub-network-v4 Specification

Parameter	Value
Type	*Collection*
Collection Name	*sub-network-v4-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}
Element Name	sub-network-v4
Element URI	/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}/stats
Element Attributes	sub-network-v4_attributes
Partition Visibility	None
Schema	`sub-network-v4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}

sub-network-v4 attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}

sub-network-v4 attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}/stats

sub-network-v4 attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}

sub-network-v4-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}/stats

sub-network-v4 attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}/stats

sub-network-v4 attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}

sub-network-v4-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v4/{subnet-ip-addr}/stats

sub-network-v4 attributes

sub-network-v4-list

sub-network-v4-list is **JSON List** of *sub-network-v4 attributes*

sub-network-v4-list : [

{ *sub-network-v4 attributes* },

{ *sub-network-v4 attributes* },

...

]

sub-network-v4 attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

subnet-ip-addr

Description IPv4 Subnet/host, supported prefix range is from 24 to 32

Type: string

Format: ipv4-cidr

stats

Specification	Value
Type	*object*

bit_rate

Description B(bits)PS

Type: number

Format: counter

packet_rate

Description PPS

Type: number

Format: counter

2.33.408 ddos network-object sub-network sub-network-v6

Configure sub-network in a DDos Network Object

sub-network-v6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*subnet-ipv6-addr*
Collection Name	*sub-network-v6-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6
Element Name	sub-network-v6
Element URI	/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}
Element Attributes	sub-network-v6_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}/stats
Schema	`sub-network-v6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6

sub-network-v6 attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6

sub-network-v6 attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}

sub-network-v6 attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6

sub-network-v6-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}

sub-network-v6 attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}

sub-network-v6 attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6

sub-network-v6-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}

sub-network-v6 attributes

sub-network-v6-list

sub-network-v6-list is **JSON List** of *sub-network-v6 attributes*

sub-network-v6-list : [

{ *sub-network-v6 attributes* },

{ *sub-network-v6 attributes* },

...

]

sub-network-v6 attributes

host-anomaly-threshold

Description: host-anomaly-threshold is a **JSON Block**. Please see below for *host-anomaly-threshold*

Type: Object

sampling-enable

Type: List

sub-network-anomaly-threshold

Description: sub-network-anomaly-threshold is a **JSON Block**. Please see below for *sub-network-anomaly-threshold*

Type: Object

subnet-breakdown

Description additional layer of breakdown subnet

Type: number

Range: 57-63

subnet-ipv6-addr

Description IPv6 Subnet/host, supported prefix range is from 56 to 64

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sub-network-anomaly-threshold

Specification	Value
Type	*object*

static-sub-network-bit-rate

Description Bit rate of the sub-network

Type: number

Range: 800-34359738360

static-sub-network-pkt-rate

Description Packet rate of the sub-network

Type: number

Range: 1-2147483647

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'packet_rate': PPS; 'bit_rate': B(bits)PS;

Type: string

Supported Values: all, packet_rate, bit_rate

host-anomaly-threshold

Specification	Value
Type	*object*

static-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-fin-rate-threshold

Description FIN packet rate of per host

Type: number

Range: 1-2147483647

static-flow-count-threshold

Description Flow count of per host

Type: number

Range: 1-2147483647

static-icmp-pkt-rate-threshold

Description ICMP packet rate of per host

Type: number

Range: 1-2147483647

static-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rev-bit-rate-threshold

Description Bit rate of per host

Type: number

Range: 800-34359738360

static-rev-pkt-rate-threshold

Description Packet rate of per host

Type: number

Range: 1-2147483647

static-rst-rate-threshold

Description RST packet rate of per host

Type: number

Range: 1-2147483647

static-syn-rate-threshold

Description SYN packet rate of per host

Type: number

Range: 1-2147483647

static-tcp-pkt-rate-threshold

Description TCP packet rate of per host

Type: number

Range: 1-2147483647

static-udp-pkt-rate-threshold

Description UDP packet rate of per host

Type: number

Range: 1-2147483647

static-undiscovered-host-bit-rate-threshold

Description Bit rate of per undiscovered host

Type: number

Range: 800-34359738360

static-undiscovered-host-pkt-rate-threshold

Description packet rate of per undiscovered host

Type: number

Range: 1-2147483647

static-undiscovered-pkt-rate-threshold

Description Undiscovered packet rate of per host

Type: number

Range: 1-2147483647

2.33.409 ddos network-object sub-network sub-network-v6 stats

Statistics for the object sub-network-v6

sub-network-v6 Specification

Parameter	Value
Type	*Collection*
Collection Name	*sub-network-v6-list*
Collection URI	/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}
Element Name	sub-network-v6
Element URI	/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}/stats
Element Attributes	sub-network-v6_attributes
Partition Visibility	None
Schema	`sub-network-v6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}

sub-network-v6 attributes

Create List

POST

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}

sub-network-v6 attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}/stats

sub-network-v6 attributes

Get List

GET

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}

sub-network-v6-list

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}/stats

sub-network-v6 attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}/stats

sub-network-v6 attributes

Replace List

PUT

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}

sub-network-v6-list

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/sub-network/sub-network-v6/{subnet-ipv6-addr}/stats

sub-network-v6 attributes

sub-network-v6-list

sub-network-v6-list is **JSON List** of *sub-network-v6 attributes*

sub-network-v6-list : [

{ *sub-network-v6 attributes* },

{ *sub-network-v6 attributes* },

...

]

sub-network-v6 attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

subnet-ipv6-addr

Description IPv6 Subnet/host, supported prefix range is from 56 to 64

Type: string

Format: ipv6-address-plen

stats

Specification	Value
Type	*object*

bit_rate

Description B(bits)PS

Type: number

Format: counter

packet_rate

Description PPS

Type: number

Format: counter

2.33.410 ddos network-object topk-destinations

DDos Network-object top destination IPs

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/network-object/{object-name}/topk-destinations
Element Attributes	topk-destinations_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/network-object/{object-name}/topk-destinations/oper
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/topk-destinations

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/topk-destinations

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/topk-destinations

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/topk-destinations

topk-destinations attributes

topk-destinations attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.411 ddos network-object topk-destinations oper

Operational Status for the object topk-destinations

topk-destinations Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	topk-destinations
Element URI	/axapi/v3/ddos/network-object/{object-name}/topk-destinations/oper
Element Attributes	topk-destinations_attributes
Partition Visibility	None
Schema	`topk-destinations schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/topk-destinations/oper

topk-destinations attributes

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/topk-destinations/oper

topk-destinations attributes

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/topk-destinations/oper

topk-destinations attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/topk-destinations/oper

topk-destinations attributes

topk-destinations attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

indicators

Type: List

reset-time

Description

Type: number

topk-type

Description

Type: number

oper_indicators

Specification	Value
Type	*list*
Block object keys	

destinations

Type: List

indicator-index

Description

Type: number

indicator-name

Description

Type: string

oper_indicators_destinations

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

rate

Description

Type: string

2.33.412 ddos network-object trustlist

Configure trusted source IP list in a DDoS Network Object

trustlist Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	trustlist
Element URI	/axapi/v3/ddos/network-object/{object-name}/trustlist
Element Attributes	trustlist_attributes
Partition Visibility	shared
Schema	`trustlist schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/network-object/{object-name}/trustlist

trustlist attributes

```
POST /axapi/v3/ddos/network-object/a/trustlist
Payload:
{
    "trustlist": {
        "v4-class-list": "a"
    }
}
```

Get Object

GET

/axapi/v3/ddos/network-object/{object-name}/trustlist

trustlist attributes

```
GET /axapi/v3/ddos/network-object/a/trustlist
Reponse:
{
    "trustlist": {
        "v4-class-list": "a",
        "uuid": "6bb1d934-0880-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/network-object/a/trustlist"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/network-object/{object-name}/trustlist

trustlist attributes

Replace Object

PUT

/axapi/v3/ddos/network-object/{object-name}/trustlist

trustlist attributes

Delete Object

DELETE

/axapi/v3/ddos/network-object/{object-name}/trustlist

trustlist attributes

trustlist attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-class-list

Description IPv4 Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

v6-class-list

Description IPv6 Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.413 ddos notification-template

Notification template configuration

notification-template Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*notification-template-list*
Collection URI	/axapi/v3/ddos/notification-template
Element Name	notification-template
Element URI	/axapi/v3/ddos/notification-template/{name}
Element Attributes	notification-template_attributes
Partition Visibility	shared
Schema	`notification-template schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/notification-template

notification-template attributes

Create List

POST

/axapi/v3/ddos/notification-template

notification-template attributes

Get Object

GET

/axapi/v3/ddos/notification-template/{name}

notification-template attributes

Get List

GET

/axapi/v3/ddos/notification-template

notification-template-list

Modify Object

POST

/axapi/v3/ddos/notification-template/{name}

notification-template attributes

Replace Object

PUT

/axapi/v3/ddos/notification-template/{name}

notification-template attributes

Replace List

PUT

/axapi/v3/ddos/notification-template

notification-template-list

Delete Object

DELETE

/axapi/v3/ddos/notification-template/{name}

notification-template attributes

notification-template-list

notification-template-list is **JSON List** of *notification-template attributes*

notification-template-list : [

{ *notification-template attributes* },

{ *notification-template attributes* },

...

]

notification-template attributes

api

Description: api is a **JSON Block**. Please see below for *api*

Type: Object

Reference Object: */axapi/v3/ddos/notification-template/{name}/api*

debug-mode

Description Enable debug mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable

Description Disable the notification template (Disable notification temaplate)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description DDOS nofitication template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

test-connectivity

Description Test connectivity to notification receiver

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

verbose

Description Dump zone IPs to the payload

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

api

Specification	Value
Type	*object*

authentication

Description: authentication is a **JSON Block**. Please see below for *api_authentication*

Type: Object

Reference Object: */axapi/v3/ddos/notification-template/{name}/api/authentication*

disable-authentication

Description Disable authentication to communicate to the host

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

host-ipv4-address

Description Configure the host IPv4 address to send notification (IPv4 address of the host)

Type: string

Format: ipv4-address

Mutual Exclusion: host-ipv4-address, host-ipv6-address, and hostname are mutually exclusive

host-ipv6-address

Description Configure the host IPv6 address to send notification (IPv6 address of the host)

Type: string

Format: ipv6-address

Mutual Exclusion: host-ipv6-address, host-ipv4-address, and hostname are mutually exclusive

hostname

Description host name(e.g www.a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: hostname, host-ipv4-address, and host-ipv6-address are mutually exclusive

http-port

Description Configure the http port to use(default 80) (http port(default 80))

Type: number

Range: 1-65535

Default: 80

http-protocol

Description 'http': Use http protocol; 'https': Use https protocol(default); (http protocol)

Type: string

Supported Values: http, https

Default: https

https-port

Description Configure the https port to use(default 443) (https port(default 443))

Type: number

Range: 1-65535

Default: 443

relative-uri

Description Configure the relative uri for the api(e.g /example , default /) (api relative uri)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Default: /

timeout

Description Configure the api execution timeout(default 10secs) (api timeout)

Type: number

Range: 5-60

Default: 10

use-mgmt-port

Description Use management port to send out notification

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

api_authentication

Specification	Value
Type	*object*

api-key

Description Configure api-key as a mode of authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

api-key-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

api-key-string

Description Configure api-key as a mode of authentication

Type: string

Format: password

Maximum Length: 64 characters

Maximum Length: 1 characters

auth-password

Description Configure the authentication user password (Authentication password)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-password-val

Description Configure the authentication user password (Authentication password)

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

auth-username

Description Configure the authentication user name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

relative-login-uri

Description Configure the authentication login uri

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

relative-logoff-uri

Description Configure the authentication logoff uri

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.414 ddos notification-template api

Violation action notification api configuration

api Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	api
Element URI	/axapi/v3/ddos/notification-template/{name}/api
Element Attributes	api_attributes
Partition Visibility	shared
Schema	`api schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/notification-template/{name}/api

api attributes

Get Object

GET

/axapi/v3/ddos/notification-template/{name}/api

api attributes

Modify Object

POST

/axapi/v3/ddos/notification-template/{name}/api

api attributes

Replace Object

PUT

/axapi/v3/ddos/notification-template/{name}/api

api attributes

Delete Object

DELETE

/axapi/v3/ddos/notification-template/{name}/api

api attributes

api attributes

authentication

Description: authentication is a **JSON Block**. Please see below for *authentication*

Type: Object

Reference Object: */axapi/v3/ddos/notification-template/{name}/api/authentication*

disable-authentication

Description Disable authentication to communicate to the host

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

host-ipv4-address

Description Configure the host IPv4 address to send notification (IPv4 address of the host)

Type: string

Format: ipv4-address

Mutual Exclusion: host-ipv4-address, host-ipv6-address, and hostname are mutually exclusive

host-ipv6-address

Description Configure the host IPv6 address to send notification (IPv6 address of the host)

Type: string

Format: ipv6-address

Mutual Exclusion: host-ipv6-address, host-ipv4-address, and hostname are mutually exclusive

hostname

Description host name(e.g www.a10networks.com)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Mutual Exclusion: hostname, host-ipv4-address, and host-ipv6-address are mutually exclusive

http-port

Description Configure the http port to use(default 80) (http port(default 80))

Type: number

Range: 1-65535

Default: 80

http-protocol

Description 'http': Use http protocol; 'https': Use https protocol(default); (http protocol)

Type: string

Supported Values: http, https

Default: https

https-port

Description Configure the https port to use(default 443) (https port(default 443))

Type: number

Range: 1-65535

Default: 443

relative-uri

Description Configure the relative uri for the api(e.g /example , default /) (api relative uri)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

Default: /

timeout

Description Configure the api execution timeout(default 10secs) (api timeout)

Type: number

Range: 5-60

Default: 10

use-mgmt-port

Description Use management port to send out notification

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

authentication

Specification	Value
Type	*object*

api-key

Description Configure api-key as a mode of authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

api-key-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

api-key-string

Description Configure api-key as a mode of authentication

Type: string

Format: password

Maximum Length: 64 characters

Maximum Length: 1 characters

auth-password

Description Configure the authentication user password (Authentication password)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-password-val

Description Configure the authentication user password (Authentication password)

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

auth-username

Description Configure the authentication user name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

relative-login-uri

Description Configure the authentication login uri

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

relative-logoff-uri

Description Configure the authentication logoff uri

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.415 ddos notification-template api authentication

Authernication URI for the host

authentication Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	authentication
Element URI	/axapi/v3/ddos/notification-template/{name}/api/authentication
Element Attributes	authentication_attributes
Partition Visibility	shared
Schema	`authentication schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/notification-template/{name}/api/authentication

authentication attributes

Get Object

GET

/axapi/v3/ddos/notification-template/{name}/api/authentication

authentication attributes

Modify Object

POST

/axapi/v3/ddos/notification-template/{name}/api/authentication

authentication attributes

Replace Object

PUT

/axapi/v3/ddos/notification-template/{name}/api/authentication

authentication attributes

Delete Object

DELETE

/axapi/v3/ddos/notification-template/{name}/api/authentication

authentication attributes

authentication attributes

api-key

Description Configure api-key as a mode of authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

api-key-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

api-key-string

Description Configure api-key as a mode of authentication

Type: string

Format: password

Maximum Length: 64 characters

Maximum Length: 1 characters

auth-password

Description Configure the authentication user password (Authentication password)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-password-val

Description Configure the authentication user password (Authentication password)

Type: string

Format: password

Maximum Length: 63 characters

Maximum Length: 1 characters

auth-username

Description Configure the authentication user name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

relative-login-uri

Description Configure the authentication login uri

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

relative-logoff-uri

Description Configure the authentication logoff uri

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.416 ddos notification-template-common

Global parameters for the ddos notification templates

notification-template-common Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	notification-template-common
Element URI	/axapi/v3/ddos/notification-template-common
Element Attributes	notification-template-common_attributes
Partition Visibility	shared
Schema	`notification-template-common schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/notification-template-common

notification-template-common attributes

Get Object

GET

/axapi/v3/ddos/notification-template-common

notification-template-common attributes

Modify Object

POST

/axapi/v3/ddos/notification-template-common

notification-template-common attributes

Replace Object

PUT

/axapi/v3/ddos/notification-template-common

notification-template-common attributes

Delete Object

DELETE

/axapi/v3/ddos/notification-template-common

notification-template-common attributes

notification-template-common attributes

default-template

Type: List

on-box-gui-notification

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

default-template

Specification	Value
Type	*list*
Block object keys	

default-notification-template

Description Specify the notification template name (Default notification template name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/notification-template*

2.33.417 ddos notification-template-debug-log oper

Operational Status for the object notification-template-debug-log

notification-template-debug-log Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	notification-template-debug-log
Element URI	/axapi/v3/ddos/notification-template-debug-log/oper
Element Attributes	notification-template-debug-log_attributes
Partition Visibility	None
Schema	`notification-template-debug-log schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/notification-template-debug-log/oper

notification-template-debug-log attributes

Get Object

GET

/axapi/v3/ddos/notification-template-debug-log/oper

notification-template-debug-log attributes

Modify Object

POST

/axapi/v3/ddos/notification-template-debug-log/oper

notification-template-debug-log attributes

Replace Object

PUT

/axapi/v3/ddos/notification-template-debug-log/oper

notification-template-debug-log attributes

Delete Object

DELETE

/axapi/v3/ddos/notification-template-debug-log/oper

notification-template-debug-log attributes

notification-template-debug-log attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

notification-template-debug-list

Type: List

oper_notification-template-debug-list

Specification	Value
Type	*list*
Block object keys	

notification-template-debug-log

Description

Type: string

2.33.418 ddos other-ipproto stats

Statistics for the object other-ipproto

other-ipproto Specification

Parameter	Value
Type	*Collection*
Collection Name	*other-ipproto-list*
Collection URI	/axapi/v3/ddos/other-ipproto
Element Name	other-ipproto
Element URI	/axapi/v3/ddos/other-ipproto/stats
Element Attributes	other-ipproto_attributes
Partition Visibility	None
Schema	`other-ipproto schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/other-ipproto

other-ipproto attributes

Create List

POST

/axapi/v3/ddos/other-ipproto

other-ipproto attributes

Get Object

GET

/axapi/v3/ddos/other-ipproto/stats

other-ipproto attributes

Get List

GET

/axapi/v3/ddos/other-ipproto

other-ipproto-list

Modify Object

POST

/axapi/v3/ddos/other-ipproto/stats

other-ipproto attributes

Replace Object

PUT

/axapi/v3/ddos/other-ipproto/stats

other-ipproto attributes

Replace List

PUT

/axapi/v3/ddos/other-ipproto

other-ipproto-list

Delete Object

DELETE

/axapi/v3/ddos/other-ipproto/stats

other-ipproto attributes

other-ipproto-list

other-ipproto-list is **JSON List** of *other-ipproto attributes*

other-ipproto-list : [

{ *other-ipproto attributes* },

{ *other-ipproto attributes* },

...

]

other-ipproto attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

bl

Description Dst Blacklisted

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action Whitelist

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action Whitelist

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

2.33.419 ddos other-zone-ipproto stats

Statistics for the object other-zone-ipproto

other-zone-ipproto Specification

Parameter	Value
Type	*Collection*
Collection Name	*other-zone-ipproto-list*
Collection URI	/axapi/v3/ddos/other-zone-ipproto
Element Name	other-zone-ipproto
Element URI	/axapi/v3/ddos/other-zone-ipproto/stats
Element Attributes	other-zone-ipproto_attributes
Partition Visibility	None
Schema	`other-zone-ipproto schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/other-zone-ipproto

other-zone-ipproto attributes

Create List

POST

/axapi/v3/ddos/other-zone-ipproto

other-zone-ipproto attributes

Get Object

GET

/axapi/v3/ddos/other-zone-ipproto/stats

other-zone-ipproto attributes

Get List

GET

/axapi/v3/ddos/other-zone-ipproto

other-zone-ipproto-list

Modify Object

POST

/axapi/v3/ddos/other-zone-ipproto/stats

other-zone-ipproto attributes

Replace Object

PUT

/axapi/v3/ddos/other-zone-ipproto/stats

other-zone-ipproto attributes

Replace List

PUT

/axapi/v3/ddos/other-zone-ipproto

other-zone-ipproto-list

Delete Object

DELETE

/axapi/v3/ddos/other-zone-ipproto/stats

other-zone-ipproto attributes

other-zone-ipproto-list

other-zone-ipproto-list is **JSON List** of *other-zone-ipproto attributes*

other-zone-ipproto-list : [

{ *other-zone-ipproto attributes* },

{ *other-zone-ipproto attributes* },

…

]

other-zone-ipproto attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

bl

Description Dst Blacklisted

Type: number

Format: counter

current_es_level

Description Current Escalation Level

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

dst_hw_drop_inserted

Description Dst Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_removed

Description Dst Hardware Drop Rules Removed

Type: number

Format: counter

dynamic_count_warn

Description dynamic-entry-count warning send

Type: number

Format: counter

ew_inbound_port_byte_drop

Description East-West Inbound Bytes Dropped

Type: number

Format: counter

ew_inbound_port_byte_rcv

Description East-West Inbound Bytes Recevied

Type: number

Format: counter

ew_inbound_port_byte_sent

Description East-West Inbound Bytes Forwarded

Type: number

Format: counter

ew_inbound_port_drop

Description East-West Inbound Packets Dropped

Type: number

Format: counter

ew_inbound_port_rcv

Description East-West Inbound Packets Received

Type: number

Format: counter

ew_inbound_port_sent

Description East-West Inbound Packets Forwarded

Type: number

Format: counter

ew_outbound_port_byte_drop

Description East-West Outbound Bytes Forwarded

Type: number

Format: counter

ew_outbound_port_byte_rcv

Description East-West Outbound Bytes Recevied

Type: number

Format: counter

ew_outbound_port_byte_sent

Description East-West Outbound Bytes Dropped

Type: number

Format: counter

ew_outbound_port_drop

Description East-West Outbound Packets Dropped

Type: number

Format: counter

ew_outbound_port_rcv

Description East-West Outbound Packets Received

Type: number

Format: counter

ew_outbound_port_sent

Description East-West Outbound Packets Forwarded

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action Whitelist

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

ip_filtering_bl

Description IP Filtering Policy: Blacklisted

Type: number

Format: counter

ip_filtering_drop

Description IP Filtering Policy: Dropped

Type: number

Format: counter

no_policy_class_list_match

Description No Policy Class-list Match

Type: number

Format: counter

no_route_drop

Description No Route Dropped

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_src_escalation

Description Src Escalation

Type: number

Format: counter

secondary_port_hit

Description Per Addr-Port Hit

Type: number

Format: counter

secondary_port_kbit_rate_exceed

Description Per Addr-Port KiBit Rate Exceeded

Type: number

Format: counter

secondary_port_kbit_rate_exceed_pkt

Description Per Addr-Port KiBit Rate Exceeded Count

Type: number

Format: counter

secondary_port_pkt_rate_exceed

Description Per Addr-Port Packet Rate Exceeded

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action Whitelist

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_hw_drop_inserted

Description Src Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_removed

Description Src Hardware Drop Rules Removed

Type: number

Format: counter

src_learn_overflow

Description Source Dynamic Entry Overflow

Type: number

Format: counter

src_zone_service_entry_aged

Description SrcZoneService Entry Aged

Type: number

Format: counter

src_zone_service_entry_hit

Description SrcZoneService Entry Hit

Type: number

Format: counter

src_zone_service_entry_learned

Description SrcZoneService Entry Learned

Type: number

Format: counter

2.33.420 ddos outbound-policy

Configure outbound policy

outbound-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*outbound-policy-list*
Collection URI	/axapi/v3/ddos/outbound-policy
Element Name	outbound-policy
Element URI	/axapi/v3/ddos/outbound-policy/{name}
Element Attributes	outbound-policy_attributes
Partition Visibility	shared
Schema	`outbound-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/outbound-policy

outbound-policy attributes

Create List

POST

/axapi/v3/ddos/outbound-policy

outbound-policy attributes

Get Object

GET

/axapi/v3/ddos/outbound-policy/{name}

outbound-policy attributes

Get List

GET

/axapi/v3/ddos/outbound-policy

outbound-policy-list

Modify Object

POST

/axapi/v3/ddos/outbound-policy/{name}

outbound-policy attributes

Replace Object

PUT

/axapi/v3/ddos/outbound-policy/{name}

outbound-policy attributes

Replace List

PUT

/axapi/v3/ddos/outbound-policy

outbound-policy-list

Delete Object

DELETE

/axapi/v3/ddos/outbound-policy/{name}

outbound-policy attributes

outbound-policy-list

outbound-policy-list is **JSON List** of *outbound-policy attributes*

outbound-policy-list : [

{ *outbound-policy attributes* },

{ *outbound-policy attributes* },

...

]

outbound-policy attributes

asn-based-tracking

Description: asn-based-tracking is a **JSON Block**. Please see below for *asn-based-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/outbound-policy/{name}/asn-based-tracking*

country-based-tracking

Description: country-based-tracking is a **JSON Block**. Please see below for *country-based-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/outbound-policy/{name}/country-based-tracking*

name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/outbound-policy/{name}/policy-class-list/{class-list-name}*

policy-default-class-list

Description: policy-default-class-list is a **JSON Block**. Please see below for *policy-default-class-list*

Type: Object

Reference Object: */axapi/v3/ddos/outbound-policy/{name}/policy-default-class-list*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

country-based-tracking

Specification	Value
Type	*object*

configuration

Description 'configuration': Configure country based tracking;

Type: string

Supported Values: configuration

packet-rate-triggered

Description Triggered by 1/2 packet rate limitation in per-country-glid.

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per-country-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-default-class-list

Specification	Value
Type	*object*

class-list-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

configuration

Description Default class-list configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

asn-based-tracking

Specification	Value
Type	*object*

configuration

Description 'configuration': Configure asn based tracking;

Type: string

Supported Values: configuration

packet-rate-triggered

Description Triggered by 1/2 packet rate limitation in per-asn-glid.

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per-asn-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/class-list*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.421 ddos outbound-policy asn-based-tracking

Configure asn based tracking

asn-based-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	asn-based-tracking
Element URI	/axapi/v3/ddos/outbound-policy/{name}/asn-based-tracking
Element Attributes	asn-based-tracking_attributes
Partition Visibility	shared
Schema	`asn-based-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/outbound-policy/{name}/asn-based-tracking

asn-based-tracking attributes

Get Object

GET

/axapi/v3/ddos/outbound-policy/{name}/asn-based-tracking

asn-based-tracking attributes

Modify Object

POST

/axapi/v3/ddos/outbound-policy/{name}/asn-based-tracking

asn-based-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/outbound-policy/{name}/asn-based-tracking

asn-based-tracking attributes

Delete Object

DELETE

/axapi/v3/ddos/outbound-policy/{name}/asn-based-tracking

asn-based-tracking attributes

asn-based-tracking attributes

configuration

Description 'configuration': Configure asn based tracking;

Type: string

Supported Values: configuration

packet-rate-triggered

Description Triggered by 1/2 packet rate limitation in per-asn-glid.

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per-asn-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.422 ddos outbound-policy country-based-tracking

Configure country based tracking

country-based-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	country-based-tracking
Element URI	/axapi/v3/ddos/outbound-policy/{name}/country-based-tracking
Element Attributes	country-based-tracking_attributes
Partition Visibility	shared
Schema	`country-based-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/outbound-policy/{name}/country-based-tracking

country-based-tracking attributes

Get Object

GET

/axapi/v3/ddos/outbound-policy/{name}/country-based-tracking

country-based-tracking attributes

Modify Object

POST

/axapi/v3/ddos/outbound-policy/{name}/country-based-tracking

country-based-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/outbound-policy/{name}/country-based-tracking

country-based-tracking attributes

Delete Object

DELETE

/axapi/v3/ddos/outbound-policy/{name}/country-based-tracking

country-based-tracking attributes

country-based-tracking attributes

configuration

Description 'configuration': Configure country based tracking;

Type: string

Supported Values: configuration

packet-rate-triggered

Description Triggered by 1/2 packet rate limitation in per-country-glid.

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per-country-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.423 ddos outbound-policy policy-class-list

Configure class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*class-list-name*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/outbound-policy/{name}/policy-class-list
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/outbound-policy/{name}/policy-class-list/{class-list-name}
Element Attributes	policy-class-list_attributes
Partition Visibility	shared
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/outbound-policy/{name}/policy-class-list

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/outbound-policy/{name}/policy-class-list

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/outbound-policy/{name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/outbound-policy/{name}/policy-class-list

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/outbound-policy/{name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/outbound-policy/{name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/outbound-policy/{name}/policy-class-list

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/outbound-policy/{name}/policy-class-list/{class-list-name}

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

class-list-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/class-list*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.424 ddos outbound-policy policy-default-class-list

Configure default class-list

policy-default-class-list Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	policy-default-class-list
Element URI	/axapi/v3/ddos/outbound-policy/{name}/policy-default-class-list
Element Attributes	policy-default-class-list_attributes
Partition Visibility	shared
Schema	`policy-default-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/outbound-policy/{name}/policy-default-class-list

policy-default-class-list attributes

Get Object

GET

/axapi/v3/ddos/outbound-policy/{name}/policy-default-class-list

policy-default-class-list attributes

Modify Object

POST

/axapi/v3/ddos/outbound-policy/{name}/policy-default-class-list

policy-default-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/outbound-policy/{name}/policy-default-class-list

policy-default-class-list attributes

Delete Object

DELETE

/axapi/v3/ddos/outbound-policy/{name}/policy-default-class-list

policy-default-class-list attributes

policy-default-class-list attributes

class-list-glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

configuration

Description Default class-list configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.425 ddos pattern-recognition

Pattern Recognition

pattern-recognition Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition
Element URI	/axapi/v3/ddos/pattern-recognition
Element Attributes	pattern-recognition_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/pattern-recognition/stats
Schema	`pattern-recognition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/pattern-recognition

pattern-recognition attributes

Get Object

GET

/axapi/v3/ddos/pattern-recognition

pattern-recognition attributes

Modify Object

POST

/axapi/v3/ddos/pattern-recognition

pattern-recognition attributes

Replace Object

PUT

/axapi/v3/ddos/pattern-recognition

pattern-recognition attributes

Delete Object

DELETE

/axapi/v3/ddos/pattern-recognition

pattern-recognition attributes

pattern-recognition attributes

capture-backup

Description Capture Backup

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

capturing-timeout

Description Capturing state timeout in seconds

Type: number

Range: 10-60000

cpu

Description: cpu is a **JSON Block**. Please see below for *cpu*

Type: Object

Reference Object: */axapi/v3/ddos/pattern-recognition/cpu*

cpu-limit

Description CPU Limit

Type: number

Range: 1-100

dedicated-cpus

Description Configure the number of dedicated cores for Pattern Recognition

Type: number

Range: 0-6

disable-app-payload-all

Description Disable application payload processing for all ports

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

error-timeout

Description Error state timeout in seconds

Type: number

Range: 10-60000

extracting-timeout

Description Extracting state timeout in seconds

Type: number

Range: 10-60000

hardware-filter

Description 'enable': Enable Pattern Recognition hardware filter; 'disable': Disable Pattern Recognition harware filter;

Type: string

Supported Values: enable, disable

Default: disable

sample-size

Description Sample Size

Type: number

Range: 1-50000

scheduling-timeout

Description Scheduling state timeout in seconds

Type: number

Range: 10-60000

sensitivity

Description 'high': High Sensitivity; 'medium': Medium Sensitivity; 'low': Low Sensitivity;

Type: string

Supported Values: high, medium, low

sflow-event-periodic-interval

Description Configure the interval in minutes of periodic event (Default: 5 minutes, 0: No periodic updates)

Type: number

Range: 0-120

Default: 5

toggle

Description 'enable': Enable Pattern Recognition; 'disable': Disable Pattern Recognition;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cpu

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.426 ddos pattern-recognition cpu oper

Operational Status for the object cpu

cpu Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	cpu
Element URI	/axapi/v3/ddos/pattern-recognition/cpu/oper
Element Attributes	cpu_attributes
Partition Visibility	None
Schema	`cpu schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/pattern-recognition/cpu/oper

cpu attributes

Get Object

GET

/axapi/v3/ddos/pattern-recognition/cpu/oper

cpu attributes

Modify Object

POST

/axapi/v3/ddos/pattern-recognition/cpu/oper

cpu attributes

Replace Object

PUT

/axapi/v3/ddos/pattern-recognition/cpu/oper

cpu attributes

Delete Object

DELETE

/axapi/v3/ddos/pattern-recognition/cpu/oper

cpu attributes

cpu attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

cpu-info

Type: List

number-of-cpus

Description

Type: number

oper_cpu-info

Specification	Value
Type	*list*
Block object keys	

1-sec

Description

Type: number

10-sec

Description

Type: number

30-sec

Description

Type: number

5-sec

Description

Type: number

60-sec

Description

Type: number

cpu-id

Description

Type: number

2.33.427 ddos pattern-recognition stats

Statistics for the object pattern-recognition

pattern-recognition Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pattern-recognition
Element URI	/axapi/v3/ddos/pattern-recognition/stats
Element Attributes	pattern-recognition_attributes
Partition Visibility	None
Schema	`pattern-recognition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/pattern-recognition/stats

pattern-recognition attributes

Get Object

GET

/axapi/v3/ddos/pattern-recognition/stats

pattern-recognition attributes

Modify Object

POST

/axapi/v3/ddos/pattern-recognition/stats

pattern-recognition attributes

Replace Object

PUT

/axapi/v3/ddos/pattern-recognition/stats

pattern-recognition attributes

Delete Object

DELETE

/axapi/v3/ddos/pattern-recognition/stats

pattern-recognition attributes

pattern-recognition attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

filter_match

Description Extracted Filter Match

Type: number

Format: counter

generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

2.33.428 ddos port

global ddos port counters

port Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port
Element URI	/axapi/v3/ddos/port
Element Attributes	port_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/port/stats
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/port

port attributes

Get Object

GET

/axapi/v3/ddos/port

port attributes

Modify Object

POST

/axapi/v3/ddos/port

port attributes

Replace Object

PUT

/axapi/v3/ddos/port

port attributes

Delete Object

DELETE

/axapi/v3/ddos/port

port attributes

port attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.429 ddos port stats

Statistics for the object port

port Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	port
Element URI	/axapi/v3/ddos/port/stats
Element Attributes	port_attributes
Partition Visibility	None
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/port/stats

port attributes

Get Object

GET

/axapi/v3/ddos/port/stats

port attributes

Modify Object

POST

/axapi/v3/ddos/port/stats

port attributes

Replace Object

PUT

/axapi/v3/ddos/port/stats

port attributes

Delete Object

DELETE

/axapi/v3/ddos/port/stats

port attributes

port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dst_port_bl

Description Dst Port Blacklist Packets Dropped

Type: number

Format: counter

dst_port_conn_limit_exceed

Description Dst Port Conn Limit Exceeded

Type: number

Format: counter

dst_port_conn_rate_exceed

Description Dst Port Conn Rate Exceeded

Type: number

Format: counter

dst_port_exceed_drop_any

Description Dst Port Exceed Dropped

Type: number

Format: counter

dst_port_frag_rate_exceed

Description Dst Port Frag Pkt Rate Exceeded

Type: number

Format: counter

dst_port_kbit_rate_exceed

Description Dst Port KiBit Rate Exceeded (KiBit)

Type: number

Format: counter

dst_port_pkt_rate_exceed

Description Dst Port Pkt Rate Exceeded

Type: number

Format: counter

dst_port_same_sport_drop

Description Dst Port Same Src Port Dropped

Type: number

Format: counter

dst_port_undef_drop

Description Dst Port Undefined Dropped

Type: number

Format: counter

dst_sport_bl

Description Dst SrcPort Blacklist Packets Dropped

Type: number

Format: counter

dst_sport_conn_limit_exceed

Description Dst SrcPort Conn Limit Exceeded

Type: number

Format: counter

dst_sport_conn_rate_exceed

Description Dst SrcPort Conn Rate Exceeded

Type: number

Format: counter

dst_sport_exceed_drop_any

Description Dst SrcPort Exceed Dropped

Type: number

Format: counter

dst_sport_frag_rate_exceed

Description Dst SrcPort Frag Pkt Rate Exceeded

Type: number

Format: counter

dst_sport_kbit_rate_exceed

Description Dst SrcPort KiBit Rate Exceeded (KiBit)

Type: number

Format: counter

dst_sport_pkt_rate_exceed

Description Dst SrcPort Pkt Rate Exceeded

Type: number

Format: counter

2.33.430 ddos protect

protect stats counters

protect Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	protect
Element URI	/axapi/v3/ddos/protect
Element Attributes	protect_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/protect/stats
Schema	`protect schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/protect

protect attributes

Get Object

GET

/axapi/v3/ddos/protect

protect attributes

Modify Object

POST

/axapi/v3/ddos/protect

protect attributes

Replace Object

PUT

/axapi/v3/ddos/protect

protect attributes

Delete Object

DELETE

/axapi/v3/ddos/protect

protect attributes

protect attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.431 ddos protect stats

Statistics for the object protect

protect Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	protect
Element URI	/axapi/v3/ddos/protect/stats
Element Attributes	protect_attributes
Partition Visibility	None
Schema	`protect schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/protect/stats

protect attributes

Get Object

GET

/axapi/v3/ddos/protect/stats

protect attributes

Modify Object

POST

/axapi/v3/ddos/protect/stats

protect attributes

Replace Object

PUT

/axapi/v3/ddos/protect/stats

protect attributes

Delete Object

DELETE

/axapi/v3/ddos/protect/stats

protect attributes

protect attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dcmsg_pkt

Description DDOS DCMSG Pkt

Type: number

Format: counter

rr_sess_lookup

Description DDOS RR Session Lookup

Type: number

Format: counter

runtime_disable

Description DDOS Runtime Disable

Type: number

Format: counter

runtime_enable

Description DDOS Runtime Enable

Type: number

Format: counter

2.33.432 ddos protection

DDOS protection

protection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	protection
Element URI	/axapi/v3/ddos/protection
Element Attributes	protection_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/protection/oper
Schema	`protection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/protection

protection attributes

```
POST /axapi/v3/ddos/protection
Payload:
{
    "protection": {
        "toggle": "enable",
        "ipv6-src-hash-mask-bits": {
            "mask-bit-offset-1": 0,
            "mask-bit-offset-2": 0,
            "mask-bit-offset-3": 0,
            "mask-bit-offset-4": 0
        }
    }
}
```

Get Object

GET

/axapi/v3/ddos/protection

protection attributes

```
GET /axapi/v3/ddos/protection
Reponse:
{
    "protection": {
        "toggle": "disable",
        "rate-interval": "100ms",
```

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```
        "force-routing-on-transp": 0,
        "disable-on-reboot": 0,
        "use-route": 0,
        "enable-now": 0,
        "mpls": 0,
        "fast-aging": {
            "half-open-conn-ratio": 25,
            "half-open-conn-threshold": 1
        },
        "src-dst-entry-limit": "16M",
        "src-zone-port-entry-limit": "16M",
        "szp-warn-exceed-enable": 0,
        "non-zero-win-size-syncookie": 0,
        "disallow-rst-ack-in-syn-auth": 0,
        "vxlan-outbound-check": "disable",
        "pkt-rate-limit-on-reassemble": "disable",
        "blacklist-reason-tracking": 0,
        "uuid": "cb1e8268-bb97-11ef-a72a-63c0c17412b6",
        "per-service-szp-entry-limit": {
            "uuid": "cb1e83a8-bb97-11ef-a72a-63c0c17412b6",
            "a10-url": "/axapi/v3/ddos/protection/per-service-szp-entry-limit"
        },
        "a10-url": "/axapi/v3/ddos/protection"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/protection

protection attributes

Replace Object

PUT

/axapi/v3/ddos/protection

protection attributes

```
PUT /axapi/v3/ddos/protection
Payload:
{
    "protection": {
        "rate-interval": "1sec"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/protection

protection attributes

```
DELETE /axapi/v3/ddos/protection
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

protection attributes

blacklist-reason-tracking

Description Enable blacklist reason tracking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

close-sess-for-unauth-src-without-rst

Description When closing unauthenticated sessions, don't send TCP RST for established TCP sessions. (Default disabled / sending TCP RST for

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-advanced-core-analysis

Description Disable advanced context info in coredump file

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-delay-dynamic-src-learning

Description Disable delay dynamic src entry learning

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-on-reboot

Description Disable DDoS protection upon reboot/reload

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disallow-rst-ack-in-syn-auth

Description Disallow RST-ACK passing syn-auth

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

enable-now

Description Override disable-on-reboot to enable runtime DDOS protection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fast-aging

Description: fast-aging is a **JSON Block**. Please see below for *fast-aging*

Type: Object

fast-path-disable

Description Disable fast path in SLB processing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force-routing-on-transp

Description Force use of routing in transparent mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force-traffic-to-same-blade-disable

Description Allow traffic to be distributed among blades on Chassis

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

hw-blocking-enable

Description Enable hardware blacklist blocking for src or dst default entries (default disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

hw-blocking-threshold-limit

Description Threshold to initiate hardware blocking (default 10000)

Type: number

Range: 1-16000000

Default: 10000

ipv6-src-hash-mask-bits

Description: ipv6-src-hash-mask-bits is a **JSON Block**. Please see below for *ipv6-src-hash-mask-bits*

Type: Object

Reference Object: */axapi/v3/ddos/protection/ipv6-src-hash-mask-bits*

mpls

Description Enable MPLS packet inspection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

multi-pu-zone-distribution

Description: multi-pu-zone-distribution is a **JSON Block**. Please see below for *multi-pu-zone-distribution*

Type: Object

Reference Object: */axapi/v3/ddos/protection/multi-pu-zone-distribution*

non-zero-win-size-syncookie

Description Send syn-cookie with fix TCP window size if SYN packet has zero window size (default disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per-service-szp-entry-limit

Description: per-service-szp-entry-limit is a **JSON Block**. Please see below for *per-service-szp-entry-limit*

Type: Object

Reference Object: */axapi/v3/ddos/protection/per-service-szp-entry-limit*

pkt-rate-limit-on-reassemble

Description 'enable': enable; 'disable': disable (Default);

Type: string

Supported Values: enable, disable

Default: disable

progression-tracking

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

rate-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 100ms

rate-limit-sync-interval

Description Multi-PU rate limit syncing interval (default 3)

Type: number

Range: 1-5

Default: 3

rexmit-syn-log

Description Enable ddos per flow rexmit syn exceeded log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dst-entry-limit

Description '8M': 8 Million; '16M': 16 Million; 'unlimited': Unlimited; 'platform-default': Half of platform maximum;

Type: string

Supported Values: 8M, 16M, unlimited, platform-default

Default: 16M

src-hash-function

Description 'v1': v1; 'v2': v2;

Type: string

Supported Values: v1, v2

Default: v1

src-ip-hash-bit

Description Configure which bit hashed on

Type: number

Range: 0-31

Default: 2

src-ipv6-hash-bit

Description Configure which bit hashed on

Type: number

Range: 0-127

Default: 2

src-zone-port-entry-limit

Description '8M': 8 Million; '16M': 16 Million; 'unlimited': Unlimited; 'platform-default': Half of platform maximum;

Type: string

Supported Values: 8M, 16M, unlimited, platform-default

Default: 16M

szp-clist-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

szp-warn-exceed-enable

Description Send logs if src-zone-port count exceeds "max-src-dst-entry"

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

szp-warn-threshold

Description Set threshold percentage of "max-src-dst-entry" for generating warning logs. Including start and end.

Type: number

Range: 1-100

toggle

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

use-route

Description Use route table, default use receive hop for device initiated traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vxlan-outbound-check

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

fast-aging

Specification	Value
Type	*object*

half-open-conn-ratio

Description Minimum half-open session to total session ratio before session fast aging will take effect (default 25)

Type: number

Range: 1-99

Default: 25

half-open-conn-threshold

Description Minimum half-open session (percentage) before session fast aging will take effect (default 1)

Type: number

Range: 1-99

Default: 1

per-service-szp-entry-limit

Specification	Value
Type	*object*

dns-tcp-limit

Description Szp limit for port / port-range dns-tcp

Type: number

Range: 0-2147483647

dns-udp-limit

Description Szp limit for port / port-range dns-udp

Type: number

Range: 0-2147483647

http-limit

Description Szp limit for port / port-range http

Type: number

Range: 0-2147483647

ip-proto-custom-limit

Description Szp limit for custom ip-proto

Type: number

Range: 0-2147483647

ip-proto-gre-limit

Description Szp limit for ip-proto gre

Type: number

Range: 0-2147483647

ip-proto-icmp-v4-limit

Description Szp limit for ip-proto icmp-v4

Type: number

Range: 0-2147483647

ip-proto-icmp-v6-limit

Description Szp limit for ip-proto icmp-v6

Type: number

Range: 0-2147483647

ip-proto-ipv4-encap-limit

Description Szp limit for ip-proto ipv4-encap

Type: number

Range: 0-2147483647

ip-proto-ipv6-encap-limit

Description Szp limit for ip-proto ipv6-encap

Type: number

Range: 0-2147483647

ip-proto-other-limit

Description Szp limit for ip-proto other

Type: number

Range: 0-2147483647

quic-limit

Description Szp limit for port / port-range quic

Type: number

Range: 0-2147483647

sip-tcp-limit

Description Szp limit for port / port-range sip-tcp

Type: number

Range: 0-2147483647

sip-udp-limit

Description Szp limit for port / port-range sip-udp

Type: number

Range: 0-2147483647

ssl-l4-limit

Description Szp limit for port / port-range ssl-l4

Type: number

Range: 0-2147483647

tcp-limit

Description Szp limit for port / port-range tcp

Type: number

Range: 0-2147483647

udp-limit

Description Szp limit for port / port-range udp

Type: number

Range: 0-2147483647

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6-src-hash-mask-bits

Specification	Value
Type	*object*

mask-bit-offset-1

Description Configure mask bits

Type: number

Range: 0-127

mask-bit-offset-2

Description Configure mask bits

Type: number

Range: 0-127

mask-bit-offset-3

Description Configure mask bits

Type: number

Range: 0-127

mask-bit-offset-4

Description Configure mask bits

Type: number

Range: 0-127

mask-bit-offset-5

Description Configure mask bits

Type: number

Range: 0-127

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

multi-pu-zone-distribution

Specification	Value
Type	*object*

regular-rebalance

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.433 ddos protection ipv6-src-hash-mask-bits

IPv6 src hashing configuration

ipv6-src-hash-mask-bits Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ipv6-src-hash-mask-bits
Element URI	/axapi/v3/ddos/protection/ipv6-src-hash-mask-bits
Element Attributes	ipv6-src-hash-mask-bits_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/protection/ipv6-src-hash-mask-bits/oper
Schema	`ipv6-src-hash-mask-bits schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/protection/ipv6-src-hash-mask-bits

ipv6-src-hash-mask-bits attributes

Get Object

GET

/axapi/v3/ddos/protection/ipv6-src-hash-mask-bits

ipv6-src-hash-mask-bits attributes

Modify Object

POST

/axapi/v3/ddos/protection/ipv6-src-hash-mask-bits

ipv6-src-hash-mask-bits attributes

Replace Object

PUT

/axapi/v3/ddos/protection/ipv6-src-hash-mask-bits

ipv6-src-hash-mask-bits attributes

Delete Object

DELETE

/axapi/v3/ddos/protection/ipv6-src-hash-mask-bits

ipv6-src-hash-mask-bits attributes

ipv6-src-hash-mask-bits attributes

mask-bit-offset-1

Description Configure mask bits

Type: number

Range: 0-127

mask-bit-offset-2

Description Configure mask bits

Type: number

Range: 0-127

mask-bit-offset-3

Description Configure mask bits

Type: number

Range: 0-127

mask-bit-offset-4

Description Configure mask bits

Type: number

Range: 0-127

mask-bit-offset-5

Description Configure mask bits

Type: number

Range: 0-127

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.434 ddos protection ipv6-src-hash-mask-bits oper

Operational Status for the object ipv6-src-hash-mask-bits

ipv6-src-hash-mask-bits Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ipv6-src-hash-mask-bits
Element URI	/axapi/v3/ddos/protection/ipv6-src-hash-mask-bits/oper
Element Attributes	ipv6-src-hash-mask-bits_attributes
Partition Visibility	None
Schema	`ipv6-src-hash-mask-bits schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/protection/ipv6-src-hash-mask-bits/oper

ipv6-src-hash-mask-bits attributes

Get Object

GET

/axapi/v3/ddos/protection/ipv6-src-hash-mask-bits/oper

ipv6-src-hash-mask-bits attributes

Modify Object

POST

/axapi/v3/ddos/protection/ipv6-src-hash-mask-bits/oper

ipv6-src-hash-mask-bits attributes

Replace Object

PUT

/axapi/v3/ddos/protection/ipv6-src-hash-mask-bits/oper

ipv6-src-hash-mask-bits attributes

Delete Object

DELETE

/axapi/v3/ddos/protection/ipv6-src-hash-mask-bits/oper

ipv6-src-hash-mask-bits attributes

ipv6-src-hash-mask-bits attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

offsets

Type: List

oper_offsets

Specification	Value
Type	*list*
Block object keys	

mask-bit-offset-1

Description

Type: number

mask-bit-offset-2

Description

Type: number

mask-bit-offset-3

Description

Type: number

mask-bit-offset-4

Description

Type: number

mask-bit-offset-5

Description

Type: number

2.33.435 ddos protection multi-pu-zone-distribution

Multi pu traffic distribution mode configuration

multi-pu-zone-distribution Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	multi-pu-zone-distribution
Element URI	/axapi/v3/ddos/protection/multi-pu-zone-distribution
Element Attributes	multi-pu-zone-distribution_attributes
Partition Visibility	shared
Schema	`multi-pu-zone-distribution schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/protection/multi-pu-zone-distribution

multi-pu-zone-distribution attributes

Get Object

GET

/axapi/v3/ddos/protection/multi-pu-zone-distribution

multi-pu-zone-distribution attributes

Modify Object

POST

/axapi/v3/ddos/protection/multi-pu-zone-distribution

multi-pu-zone-distribution attributes

Replace Object

PUT

/axapi/v3/ddos/protection/multi-pu-zone-distribution

multi-pu-zone-distribution attributes

Delete Object

DELETE

/axapi/v3/ddos/protection/multi-pu-zone-distribution

multi-pu-zone-distribution attributes

multi-pu-zone-distribution attributes

regular-rebalance

Description ‘enable’: enable; ‘disable’: disable;

Type: string

Supported Values: enable, disable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.436 ddos protection oper

Operational Status for the object protection

protection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	protection
Element URI	/axapi/v3/ddos/protection/oper
Element Attributes	protection_attributes
Partition Visibility	None
Schema	`protection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/protection/oper

protection attributes

Get Object

GET

/axapi/v3/ddos/protection/oper

protection attributes

Modify Object

POST

/axapi/v3/ddos/protection/oper

protection attributes

Replace Object

PUT

/axapi/v3/ddos/protection/oper

protection attributes

Delete Object

DELETE

/axapi/v3/ddos/protection/oper

protection attributes

protection attributes

ipv6-src-hash-mask-bits

Description: ipv6-src-hash-mask-bits is a **JSON Block**. Please see below for *ipv6-src-hash-mask-bits*

Type: Object

Reference Object: */axapi/v3/ddos/protection/ipv6-src-hash-mask-bits*

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

bgp

Description

Type: string

Supported Values: enabled, disabled

bgp-auto-wl

Description

Type: string

Supported Values: enabled, disabled

ddet-cpus

Description

Type: number

ddet-mode

Description

Type: string

ddos-protection

Description

Type: string

Supported Values: enabled, disabled

detection

Description

Type: string

Supported Values: enabled, disabled

detection-window-size

Description

Type: number

disallow-rst-ack-in-syn-auth

Description

Type: string

Supported Values: enabled, disabled

dns-cache-mode

Description

Type: string

Supported Values: enabled, disabled

dns-zone-transfer-dedicated-cpus

Description

Type: number

dst-auto-learning-ipv4

Description

Type: string

Supported Values: enabled, disabled

dst-auto-learning-ipv6

Description

Type: string

Supported Values: enabled, disabled

dst-dynamic-overflow-ipv4

Description

Type: string

Supported Values: enabled, disabled

dst-dynamic-overflow-ipv6

Description

Type: string

Supported Values: enabled, disabled

hw-blocking

Description

Type: string

Supported Values: enabled, disabled

hw-blocking-threshold

Description

Type: number

hw-syn-cookie

Description

Type: string

Supported Values: enabled, disabled

interblade-sync-accuracy

Description

Type: string

Supported Values: High, Low, Medium

interface-http-health-check

Description

Type: string

Supported Values: enabled, disabled

ip-ano-def-l3

Description

Type: string

Supported Values: enabled, disabled

ip-ano-def-l4

Description

Type: string

Supported Values: enabled, disabled

ip-ano-sec-l3

Description

Type: string

Supported Values: enabled, disabled

ip-ano-sec-l4-tcp

Description

Type: string

Supported Values: enabled, disabled

ip-ano-sec-l4-udp

Description

Type: string

Supported Values: enabled, disabled

mode

Description

Type: string

mpls-pkt-inspect

Description

Type: string

Supported Values: enabled, disabled

non-zero-win-size-syncookie

Description

Type: string

Supported Values: enabled, disabled

one-arm-mode

Description

Type: string

Supported Values: enabled, disabled

pattern-recognition

Description

Type: string

Supported Values: enabled, disabled

pattern-recognition-cpus

Description

Type: number

pattern-recognition-hardware-filter

Description

Type: string

Supported Values: enabled, disabled

rate-interval

Description

Type: string

Supported Values: 100ms, 1sec

src-auto-learning-ipv4

Description

Type: string

Supported Values: enabled, disabled

src-auto-learning-ipv6

Description

Type: string

Supported Values: enabled, disabled

src-delay-learning

Description

Type: string

Supported Values: enabled, disabled

src-dst-entry-limit

Description

Type: string

Supported Values: 8M, 16M, unlimited, platform-default

src-dynamic-overflow-ipv4

Description

Type: string

Supported Values: enabled, disabled

src-dynamic-overflow-ipv6

Description

Type: string

Supported Values: enabled, disabled

src-zone-port-entry-clist-warning-threshold

Description

Type: number

src-zone-port-entry-limit

Description

Type: string

Supported Values: 8M, 16M, unlimited, platform-default

src-zone-port-entry-overflow-warning

Description

Type: string

Supported Values: enabled, disabled

src-zone-port-entry-warning-threshold

Description

Type: number

sync

Description

Type: string

Supported Values: enabled, disabled

sync-auto-wl

Description

Type: string

Supported Values: enabled, disabled

tap-interfaces

Description

Type: string

Supported Values: enabled, disabled

use-route

Description

Type: string

Supported Values: enabled, disabled

vrrp

Description

Type: string

Supported Values: enabled, disabled

vrrp-auto-wl

Description

Type: string

Supported Values: enabled, disabled

warm-up

Description

Type: string

ipv6-src-hash-mask-bits

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *ipv6-src-hash-mask-bits_oper*

Type: Object

ipv6-src-hash-mask-bits_oper

Specification	Value
Type	*object*

offsets

Type: List

ipv6-src-hash-mask-bits_oper_offsets

Specification	Value
Type	*list*
Block object keys	

mask-bit-offset-1

Description

Type: number

mask-bit-offset-2

Description

Type: number

mask-bit-offset-3

Description

Type: number

mask-bit-offset-4

Description

Type: number

mask-bit-offset-5

Description

Type: number

2.33.437 ddos protection per-service-szp-entry-limit

Global per service type src-zone-port entry limit

per-service-szp-entry-limit Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	per-service-szp-entry-limit
Element URI	/axapi/v3/ddos/protection/per-service-szp-entry-limit
Element Attributes	per-service-szp-entry-limit_attributes
Partition Visibility	shared
Schema	`per-service-szp-entry-limit schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/protection/per-service-szp-entry-limit

per-service-szp-entry-limit attributes

```
POST /axapi/v3/ddos/protection/per-service-szp-entry-limit
Payload:
{
    "per-service-szp-entry-limit": {
        "dns-tcp-limit": 0
    }
}
```

Get Object

GET

/axapi/v3/ddos/protection/per-service-szp-entry-limit

per-service-szp-entry-limit attributes

```
GET /axapi/v3/ddos/protection/per-service-szp-entry-limit
Reponse:
{
    "per-service-szp-entry-limit": {
        "dns-tcp-limit": 0,
        "uuid": "cb1e83a8-bb97-11ef-a72a-63c0c17412b6",
        "a10-url": "/axapi/v3/ddos/protection/per-service-szp-entry-limit"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/protection/per-service-szp-entry-limit

per-service-szp-entry-limit attributes

Replace Object

PUT

/axapi/v3/ddos/protection/per-service-szp-entry-limit

per-service-szp-entry-limit attributes

```
PUT /axapi/v3/ddos/protection/per-service-szp-entry-limit
Payload:
{
    "per-service-szp-entry-limit": {
        "dns-tcp-limit": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/protection/per-service-szp-entry-limit

per-service-szp-entry-limit attributes

```
DELETE /axapi/v3/ddos/protection/per-service-szp-entry-limit
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

per-service-szp-entry-limit attributes

dns-tcp-limit

Description Szp limit for port / port-range dns-tcp

Type: number

Range: 0-2147483647

dns-udp-limit

Description Szp limit for port / port-range dns-udp

Type: number

Range: 0-2147483647

http-limit

Description Szp limit for port / port-range http

Type: number

Range: 0-2147483647

ip-proto-custom-limit

Description Szp limit for custom ip-proto

Type: number

Range: 0-2147483647

ip-proto-gre-limit

Description Szp limit for ip-proto gre

Type: number

Range: 0-2147483647

ip-proto-icmp-v4-limit

Description Szp limit for ip-proto icmp-v4

Type: number

Range: 0-2147483647

ip-proto-icmp-v6-limit

Description Szp limit for ip-proto icmp-v6

Type: number

Range: 0-2147483647

ip-proto-ipv4-encap-limit

Description Szp limit for ip-proto ipv4-encap

Type: number

Range: 0-2147483647

ip-proto-ipv6-encap-limit

Description Szp limit for ip-proto ipv6-encap

Type: number

Range: 0-2147483647

ip-proto-other-limit

Description Szp limit for ip-proto other

Type: number

Range: 0-2147483647

quic-limit

Description Szp limit for port / port-range quic

Type: number

Range: 0-2147483647

sip-tcp-limit

Description Szp limit for port / port-range sip-tcp

Type: number

Range: 0-2147483647

sip-udp-limit

Description Szp limit for port / port-range sip-udp

Type: number

Range: 0-2147483647

ssl-l4-limit

Description Szp limit for port / port-range ssl-l4

Type: number

Range: 0-2147483647

tcp-limit

Description Szp limit for port / port-range tcp

Type: number

Range: 0-2147483647

udp-limit

Description Szp limit for port / port-range udp

Type: number

Range: 0-2147483647

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.438 ddos quic-zone-port stats

Statistics for the object quic-zone-port

quic-zone-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*quic-zone-port-list*
Collection URI	/axapi/v3/ddos/quic-zone-port
Element Name	quic-zone-port
Element URI	/axapi/v3/ddos/quic-zone-port/stats
Element Attributes	quic-zone-port_attributes
Partition Visibility	None
Schema	`quic-zone-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/quic-zone-port

quic-zone-port attributes

Create List

POST

/axapi/v3/ddos/quic-zone-port

quic-zone-port attributes

Get Object

GET

/axapi/v3/ddos/quic-zone-port/stats

quic-zone-port attributes

Get List

GET

/axapi/v3/ddos/quic-zone-port

quic-zone-port-list

Modify Object

POST

/axapi/v3/ddos/quic-zone-port/stats

quic-zone-port attributes

Replace Object

PUT

/axapi/v3/ddos/quic-zone-port/stats

quic-zone-port attributes

Replace List

PUT

/axapi/v3/ddos/quic-zone-port

quic-zone-port-list

Delete Object

DELETE

/axapi/v3/ddos/quic-zone-port/stats

quic-zone-port attributes

quic-zone-port-list

quic-zone-port-list is **JSON List** of *quic-zone-port attributes*

quic-zone-port-list : [

{ *quic-zone-port attributes* },

{ *quic-zone-port attributes* },

...

]

quic-zone-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

0rtt

Description QUIC 0-RTT

Type: number

Format: counter

0rtt_drop

Description QUIC 0-RTT DROP

Type: number

Format: counter

aead_pkt_rate_exceed

Description QUIC AEAD Packet Rate Exceed

Type: number

Format: counter

all_src_session_reset

Description Session Reset for All Src Upon Level Escalation

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

clear_session_upon_deescalation

Description Clear Session Upon De-escalation to Level 0

Type: number

Format: counter

conn_prate_excd

Description UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

connection_close_sent

Description Quic Connection Close Sent

Type: number

Format: counter

create_conn_init_only

Description QUIC Create Connection on Initial Only

Type: number

Format: counter

current_es_level

Description Current Escalation Level

Type: number

Format: counter

dcid_pkt_rate_exceed

Description QUIC DCID Packet Rate Exceed

Type: number

Format: counter

decrypt_fail

Description QUIC Decrypt Fail

Type: number

Format: counter

decrypt_success

Description QUIC Decrypt Success

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

dst_hw_drop_inserted

Description Dst Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_removed

Description Dst Hardware Drop Rules Removed

Type: number

Format: counter

dst_udp_retry_timeout_blacklist

Description UDP Retry Timeout Blacklisted

Type: number

Format: counter

dynamic_count_warn

Description dynamic-entry-count warning send

Type: number

Format: counter

encrypt_fail

Description QUIC Encrypt Fail

Type: number

Format: counter

encrypt_success

Description QUIC Encrypt Success

Type: number

Format: counter

ew_inbound_port_byte_drop

Description East-West Inbound Bytes Dropped

Type: number

Format: counter

ew_inbound_port_byte_rcv

Description East-West Inbound Bytes Recevied

Type: number

Format: counter

ew_inbound_port_byte_sent

Description East-West Inbound Bytes Forwarded

Type: number

Format: counter

ew_inbound_port_drop

Description East-West Inbound Packets Dropped

Type: number

Format: counter

ew_inbound_port_rcv

Description East-West Inbound Packets Received

Type: number

Format: counter

ew_inbound_port_sent

Description East-West Inbound Packets Forwarded

Type: number

Format: counter

ew_outbound_port_byte_drop

Description East-West Outbound Bytes Forwarded

Type: number

Format: counter

ew_outbound_port_byte_rcv

Description East-West Outbound Bytes Recevied

Type: number

Format: counter

ew_outbound_port_byte_sent

Description East-West Outbound Bytes Dropped

Type: number

Format: counter

ew_outbound_port_drop

Description East-West Outbound Packets Dropped

Type: number

Format: counter

ew_outbound_port_rcv

Description East-West Outbound Packets Received

Type: number

Format: counter

ew_outbound_port_sent

Description East-West Outbound Packets Forwarded

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action Whitelist

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

fixed_bit_not_set

Description Fixed Bit Not Set

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

handshake

Description QUIC Handshake

Type: number

Format: counter

initial

Description QUIC Initial

Type: number

Format: counter

initial_force_tcp

Description Initial Force-TCP

Type: number

Format: counter

invalid_packet_type

Description Invalid Packet Type

Type: number

Format: counter

invalid_retry_token

Description Invalid Retry Token

Type: number

Format: counter

ip_filtering_bl

Description IP Filtering Policy: Blacklisted

Type: number

Format: counter

ip_filtering_drop

Description IP Filtering Policy: Dropped

Type: number

Format: counter

malformed_action_blacklist

Description Malformed Action Blacklist

Type: number

Format: counter

malformed_action_drop

Description Malformed Action Drop

Type: number

Format: counter

malformed_action_taken

Description Malformed Action Taken

Type: number

Format: counter

malformed_dcid_len_max_exceed

Description Malformed DCID Length Maximum Exceed

Type: number

Format: counter

malformed_scid_len_max_exceed

Description Malformed SCID Length Maximum Exceed

Type: number

Format: counter

no_policy_class_list_match

Description No Policy Class-list Match

Type: number

Format: counter

no_route_drop

Description No Route Dropped

Type: number

Format: counter

ntp_monlist_req

Description NTP Monlist Request

Type: number

Format: counter

ntp_monlist_resp

Description NTP Monlist Response

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

packet_parse_failed

Description Packet Parse Failed

Type: number

Format: counter

payload_too_big

Description UDP Payload Too Large

Type: number

Format: counter

payload_too_small

Description UDP Payload Too Small

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_src_escalation

Description Src Escalation

Type: number

Format: counter

processed

Description QUIC Headers Processed

Type: number

Format: counter

retry

Description QUIC Retry

Type: number

Format: counter

retry_auth_fail

Description Quic Retry Auth Fail

Type: number

Format: counter

retry_auth_pass

Description Quic Retry Auth Pass

Type: number

Format: counter

retry_auth_sent

Description Quic Retry Auth Sent

Type: number

Format: counter

same_sport_dport_drop

Description Same Source and Destination Port Drop

Type: number

Format: counter

secondary_port_conn_limm_exceed

Description Per Addr-Port Conn Limit Exceeded

Type: number

Format: counter

secondary_port_conn_rate_exceed

Description Per Addr-Port Conn Rate Exceeded

Type: number

Format: counter

secondary_port_hit

Description Per Addr-Port Hit

Type: number

Format: counter

secondary_port_kbit_rate_exceed

Description Per Addr-Port KiBit Rate Exceeded

Type: number

Format: counter

secondary_port_kbit_rate_exceed_pkt

Description Per Addr-Port KiBit Rate Exceeded Count

Type: number

Format: counter

secondary_port_pkt_rate_exceed

Description Per Addr-Port Packet Rate Exceeded

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

short_header

Description QUIC Short Header Packet

Type: number

Format: counter

short_header_drop

Description QUIC Short Header Drop

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

spoof_detect_fail

Description UDP Retry Timeout

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action Whitelist

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_hw_drop_inserted

Description Src Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_removed

Description Src Hardware Drop Rules Removed

Type: number

Format: counter

src_learn_overflow

Description Source Dynamic Entry Overflow

Type: number

Format: counter

src_ntp_monlist_req

Description Src NTP Monlist Request

Type: number

Format: counter

src_ntp_monlist_resp

Description Src NTP Monlist Response

Type: number

Format: counter

src_payload_too_big

Description Src UDP Payload Too Large

Type: number

Format: counter

src_payload_too_small

Description Src UDP Payload Too Small

Type: number

Format: counter

src_udp_auth_drop

Description Src UDP Auth Dropped

Type: number

Format: counter

src_udp_auth_timeout

Description Src UDP Retry Timeout

Type: number

Format: counter

src_udp_retry_gap_drop

Description Src UDP Retry-Gap Dropped

Type: number

Format: counter

src_udp_retry_init

Description Src UDP Retry Init

Type: number

Format: counter

src_udp_retry_pass

Description Src UDP Retry Passed

Type: number

Format: counter

src_well_known_port

Description Src UDP SrcPort Wellknown

Type: number

Format: counter

src_zone_service_entry_aged

Description SrcZoneService Entry Aged

Type: number

Format: counter

src_zone_service_entry_hit

Description SrcZoneService Entry Hit

Type: number

Format: counter

src_zone_service_entry_learned

Description SrcZoneService Entry Learned

Type: number

Format: counter

token_authentication_curr_salt_matched

Description Token Authentication Current Salt Matched

Type: number

Format: counter

token_authentication_invalid

Description Token Authentication Invalid Packets

Type: number

Format: counter

token_authentication_mismatched

Description Token Authentication Mismatched Packets

Type: number

Format: counter

token_authentication_prev_salt_matched

Description Token Authentication Previous Salt Matched

Type: number

Format: counter

token_authentication_session_created

Description Token Authentication Session Created

Type: number

Format: counter

token_authentication_session_created_fail

Description Token Authentication Session Created Fail

Type: number

Format: counter

udp_auth_drop

Description UDP Auth Dropped

Type: number

Format: counter

udp_retry_gap_drop

Description UDP Retry-Gap Dropped

Type: number

Format: counter

udp_retry_init

Description UDP Retry Init

Type: number

Format: counter

udp_retry_pass

Description UDP Retry Passed

Type: number

Format: counter

unauth_src_session_reset

Description Session Reset for Unauthenticated Src

Type: number

Format: counter

version_match_action_blacklist

Description Version Match Action Blacklist

Type: number

Format: counter

version_match_action_drop

Description Version Match Action Drop

Type: number

Format: counter

version_match_action_taken

Description Version Match Action Taken

Type: number

Format: counter

version_negotiation

Description QUIC Version Negotiation

Type: number

Format: counter

wellknown_sport_drop

Description UDP SrcPort Wellknown

Type: number

Format: counter

zone_src_udp_retry_timeout_blacklist

Description Src UDP Retry Timeout Blacklisted

Type: number

Format: counter

2.33.439 ddos reporting

Reporting service configuration

reporting Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	reporting
Element URI	/axapi/v3/ddos/reporting
Element Attributes	reporting_attributes
Partition Visibility	shared
Schema	`reporting schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/reporting

reporting attributes

Get Object

GET

/axapi/v3/ddos/reporting

reporting attributes

Modify Object

POST

/axapi/v3/ddos/reporting

reporting attributes

Replace Object

PUT

/axapi/v3/ddos/reporting

reporting attributes

Delete Object

DELETE

/axapi/v3/ddos/reporting

reporting attributes

reporting attributes

toggle

Description 'disable-on-limit-reached': Disable reporting on DST/Port entry when the max reporting count is reached; 'reject-on-limit-reached': Reject the configuration when the max reporting count is reached;

Type: string

Supported Values: disable-on-limit-reached, reject-on-limit-reached

Default: reject-on-limit-reached

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.440 ddos resource-tracking

DDoS Resource Tracking

resource-tracking Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	resource-tracking
Element URI	/axapi/v3/ddos/resource-tracking
Element Attributes	resource-tracking_attributes
Partition Visibility	shared
Schema	`resource-tracking schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/resource-tracking

resource-tracking_attributes

resource-tracking attributes

cpu

Description: cpu is a **JSON Block**. Please see below for *cpu*

Type: Object

Reference Object: */axapi/v3/ddos/resource-tracking/cpu*

cpu

Specification	Value
Type	*object*

enable

Description Enable CPU usage tracking per dst object (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.441 ddos resource-tracking cpu

DDoS CPU Usage Per-Dst Tracking

cpu Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	cpu
Element URI	/axapi/v3/ddos/resource-tracking/cpu
Element Attributes	cpu_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/resource-tracking/cpu/oper
Schema	`cpu schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/resource-tracking/cpu

cpu attributes

```
POST /axapi/v3/ddos/resource-tracking/cpu
Payload:
{
    "cpu": {
        "enable": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/resource-tracking/cpu

cpu attributes

```
GET /axapi/v3/ddos/resource-tracking/cpu
Reponse:
{
    "cpu": {
        "enable": 1,
        "uuid": "cb1e8ccc-bb97-11ef-a72a-63c0c17412b6",
        "a10-url": "/axapi/v3/ddos/resource-tracking/cpu"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/resource-tracking/cpu

cpu attributes

Replace Object

PUT

/axapi/v3/ddos/resource-tracking/cpu

cpu attributes

```
PUT /axapi/v3/ddos/resource-tracking/cpu
Payload:
{
    "cpu": {
        "enable": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/resource-tracking/cpu

cpu attributes

```
DELETE /axapi/v3/ddos/resource-tracking/cpu
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

cpu attributes

enable

Description Enable CPU usage tracking per dst object (default: disabled)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.442 ddos resource-tracking cpu oper

Operational Status for the object cpu

cpu Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	cpu
Element URI	/axapi/v3/ddos/resource-tracking/cpu/oper
Element Attributes	cpu_attributes
Partition Visibility	None
Schema	`cpu schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/resource-tracking/cpu/oper

cpu attributes

Get Object

GET

/axapi/v3/ddos/resource-tracking/cpu/oper

cpu attributes

Modify Object

POST

/axapi/v3/ddos/resource-tracking/cpu/oper

cpu attributes

Replace Object

PUT

/axapi/v3/ddos/resource-tracking/cpu/oper

cpu attributes

Delete Object

DELETE

/axapi/v3/ddos/resource-tracking/cpu/oper

cpu attributes

cpu attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

error-str

Description

Type: string

if-show-error-str

Description

Type: number

max-count

Description

Type: number

timestamps

Type: List

oper_timestamps

Specification	Value
Type	*list*
Block object keys	

average-cpu-percent

Description

Type: string

entries

Type: List

timestamp

Description

Type: string

oper_timestamps_entries

Specification	Value
Type	*list*
Block object keys	

absolute-cpu-percent

Description

Type: string

address

Description

Type: string

entry

Description

Type: string

relative-cpu-percent

Description

Type: string

2.33.443 ddos resource-usage

DDoS Resource Usage

resource-usage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	resource-usage
Element URI	/axapi/v3/ddos/resource-usage
Element Attributes	resource-usage_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/resource-usage/oper
Schema	`resource-usage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/resource-usage

resource-usage attributes

Get Object

GET

/axapi/v3/ddos/resource-usage

resource-usage attributes

Modify Object

POST

/axapi/v3/ddos/resource-usage

resource-usage attributes

Replace Object

PUT

/axapi/v3/ddos/resource-usage

resource-usage attributes

Delete Object

DELETE

/axapi/v3/ddos/resource-usage

resource-usage attributes

resource-usage attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.444 ddos resource-usage oper

Operational Status for the object resource-usage

resource-usage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	resource-usage
Element URI	/axapi/v3/ddos/resource-usage/oper
Element Attributes	resource-usage_attributes
Partition Visibility	None
Schema	`resource-usage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/resource-usage/oper

resource-usage attributes

Get Object

GET

/axapi/v3/ddos/resource-usage/oper

resource-usage attributes

Modify Object

POST

/axapi/v3/ddos/resource-usage/oper

resource-usage attributes

Replace Object

PUT

/axapi/v3/ddos/resource-usage/oper

resource-usage attributes

Delete Object

DELETE

/axapi/v3/ddos/resource-usage/oper

resource-usage attributes

resource-usage attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

dynamic-resources

Type: List

enabled

Description

Type: number

hw-resource-limit

Type: List

per-resource-limit

Type: List

static-resources

Type: List

system-capacity

Description

Type: boolean

Supported Values: true, false, 1, 0

system-capacity-percentage

Description

Type: number

system-capacity-remaining

Description

Type: number

system-capacity-total

Description

Type: number

oper_per-resource-limit

Specification	Value
Type	*list*
Block object keys	

res-alloc

Description

Type: string

res-limit

Description

Type: number

res-name

Description

Type: string

oper_dynamic-resources

Specification	Value
Type	*list*
Block object keys	

res-alloc

Description

Type: number

res-limit

Description

Type: number

res-name

Description

Type: string

oper_static-resources

Specification	Value
Type	*list*
Block object keys	

res-alloc

Description

Type: number

res-limit

Description

Type: number

res-name

Description

Type: string

oper_hw-resource-limit

Specification	Value
Type	*list*
Block object keys	

res-alloc

Description

Type: number

res-limit

Description

Type: number

res-name

Description

Type: string

2.33.445 ddos run-time-user-string

Configure run time user string

run-time-user-string Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	run-time-user-string
Element URI	/axapi/v3/ddos/run-time-user-string
Element Attributes	run-time-user-string_attributes
Partition Visibility	shared
Schema	`run-time-user-string schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/run-time-user-string

run-time-user-string attributes

```
POST /axapi/v3/ddos/run-time-user-string
Payload:
{
    "run-time-user-string": {
        "value": "a"
    }
}
```

Get Object

GET

/axapi/v3/ddos/run-time-user-string

run-time-user-string attributes

```
GET /axapi/v3/ddos/run-time-user-string
Reponse:
{
    "run-time-user-string": {
        "value": "a",
        "uuid": "a71400f0-0881-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/run-time-user-string"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/run-time-user-string

run-time-user-string attributes

Replace Object

PUT

/axapi/v3/ddos/run-time-user-string

run-time-user-string attributes

```
PUT /axapi/v3/ddos/run-time-user-string
Payload:
{
    "run-time-user-string": {
        "value": "a"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/run-time-user-string

run-time-user-string attributes

```
DELETE /axapi/v3/ddos/run-time-user-string
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

run-time-user-string attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value

Description Add run time user string

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.446 ddos session

session counters

session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	session
Element URI	/axapi/v3/ddos/session
Element Attributes	session_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/session/stats
Schema	`session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/session

session attributes

Get Object

GET

/axapi/v3/ddos/session

session attributes

Modify Object

POST

/axapi/v3/ddos/session

session attributes

Replace Object

PUT

/axapi/v3/ddos/session

session attributes

Delete Object

DELETE

/axapi/v3/ddos/session

session attributes

session attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.447 ddos session stats

Statistics for the object session

session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	session
Element URI	/axapi/v3/ddos/session/stats
Element Attributes	session_attributes
Partition Visibility	None
Schema	`session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/session/stats

session attributes

Get Object

GET

/axapi/v3/ddos/session/stats

session attributes

Modify Object

POST

/axapi/v3/ddos/session/stats

session attributes

Replace Object

PUT

/axapi/v3/ddos/session/stats

session attributes

Delete Object

DELETE

/axapi/v3/ddos/session/stats

session attributes

session attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

conn_entry_mismatch

Description Conn Entry Mismatch Dropped

Type: number

Format: counter

conn_tcp_close

Description TCP Conn Closed

Type: number

Format: counter

conn_tcp_close_w_fin

Description TCP Conn Closed With FIN

Type: number

Format: counter

conn_tcp_close_w_half_open

Description TCP Conn Closed With Half Open

Type: number

Format: counter

conn_tcp_close_w_idle

Description TCP Conn Closed With Idle

Type: number

Format: counter

conn_tcp_close_w_rst

Description TCP Conn Closed With RST

Type: number

Format: counter

conn_tcp_create_from_ack

Description TCP Conn Created From ACK

Type: number

Format: counter

conn_tcp_create_from_syn

Description TCP Conn Created From SYN

Type: number

Format: counter

conn_tcp_est

Description TCP Conn Established

Type: number

Format: counter

conn_tcp_est_w_ack

Description TCP Conn Established With ACK

Type: number

Format: counter

conn_tcp_est_w_syn

Description TCP Conn Established With SYN

Type: number

Format: counter

conn_udp_close

Description UDP Conn Closed

Type: number

Format: counter

conn_udp_est

Description UDP Conn Established

Type: number

Format: counter

sess_aged_out

Description Session Aged Out

Type: number

Format: counter

sess_aged_udp_auth

Description UDP Helper Auth Sessions Aged Out

Type: number

Format: counter

sess_create_ip

Description IPv4 Session Created

Type: number

Format: counter

sess_create_ip6

Description IPv6 Session Created

Type: number

Format: counter

sess_create_tcp

Description TCP Sessions Created

Type: number

Format: counter

sess_create_udp

Description UDP Sessions Created

Type: number

Format: counter

sess_create_udp_auth

Description UDP Helper Auth Sessions Created

Type: number

Format: counter

sess_oom

Description Out of Session Memory

Type: number

Format: counter

sess_snat_failed

Description Session Source NAT Failure

Type: number

Format: counter

2.33.448 ddos signature-extraction

Automatic Signature Extraction

signature-extraction Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	signature-extraction
Element URI	/axapi/v3/ddos/signature-extraction
Element Attributes	signature-extraction_attributes
Partition Visibility	shared
Schema	`signature-extraction schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/signature-extraction

signature-extraction attributes

```
POST /axapi/v3/ddos/signature-extraction
Payload:
{
    "signature-extraction": {
        "enable": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/signature-extraction

signature-extraction attributes

```
GET /axapi/v3/ddos/signature-extraction
Reponse:
{
    "signature-extraction": {
        "enable": 1,
        "uuid": "cb1e856a-bb97-11ef-a72a-63c0c17412b6",
        "a10-url": "/axapi/v3/ddos/signature-extraction"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/signature-extraction

signature-extraction attributes

Replace Object

PUT

/axapi/v3/ddos/signature-extraction

signature-extraction attributes

```
PUT /axapi/v3/ddos/signature-extraction
Payload:
{
    "signature-extraction": {
        "enable": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/signature-extraction

signature-extraction attributes

```
DELETE /axapi/v3/ddos/signature-extraction
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

signature-extraction attributes

enable

Description Enable Automatic Signature Extraction

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.449 ddos sip-tcp-port stats

Statistics for the object sip-tcp-port

sip-tcp-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*sip-tcp-port-list*
Collection URI	/axapi/v3/ddos/sip-tcp-port
Element Name	sip-tcp-port
Element URI	/axapi/v3/ddos/sip-tcp-port/stats
Element Attributes	sip-tcp-port_attributes
Partition Visibility	None
Schema	`sip-tcp-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/sip-tcp-port

sip-tcp-port attributes

Create List

POST

/axapi/v3/ddos/sip-tcp-port

sip-tcp-port attributes

Get Object

GET

/axapi/v3/ddos/sip-tcp-port/stats

sip-tcp-port attributes

Get List

GET

/axapi/v3/ddos/sip-tcp-port

sip-tcp-port-list

Modify Object

POST

/axapi/v3/ddos/sip-tcp-port/stats

sip-tcp-port attributes

Replace Object

PUT

/axapi/v3/ddos/sip-tcp-port/stats

sip-tcp-port attributes

Replace List

PUT

/axapi/v3/ddos/sip-tcp-port

sip-tcp-port-list

Delete Object

DELETE

/axapi/v3/ddos/sip-tcp-port/stats

sip-tcp-port attributes

sip-tcp-port-list

sip-tcp-port-list is **JSON List** of *sip-tcp-port attributes*

sip-tcp-port-list : [

{ *sip-tcp-port attributes* },

{ *sip-tcp-port attributes* },

...

]

sip-tcp-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ack_auth_fail

Description ACK Retry Dropped

Type: number

Format: counter

ack_retry_blacklist

Description ACK Retry Timeout Blacklisted

Type: number

Format: counter

ack_retry_gap_drop

Description ACK Retry Retry-Gap Dropped

Type: number

Format: counter

ack_retry_init

Description ACK Retry Init

Type: number

Format: counter

ack_retry_pass

Description ACK Retry Passed

Type: number

Format: counter

ack_retry_reset

Description ACK Retry Timeout Reset

Type: number

Format: counter

ack_retry_rto_fail

Description ACK Retry RTO Dropped

Type: number

Format: counter

ack_retry_rto_pass

Description ACK Retry RTO Passed

Type: number

Format: counter

ack_retry_rto_progress

Description ACK Retry RTO Progress

Type: number

Format: counter

ack_retry_timeout

Description ACK Retry Timeout

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

body_too_big

Description Body Too Big

Type: number

Format: counter

client_rst

Description Client Rst

Type: number

Format: counter

concatenate_msg

Description Concatenate Message

Type: number

Format: counter

conn_close

Description Connections Closed

Type: number

Format: counter

conn_close_half_open

Description Half Open Connections Closed

Type: number

Format: counter

conn_close_w_fin

Description FIN Connections Closed

Type: number

Format: counter

conn_close_w_idle

Description Idle Connections Closed

Type: number

Format: counter

conn_close_w_rst

Description RST Connections Closed

Type: number

Format: counter

conn_create_from_ack

Description Connections Created From ACK

Type: number

Format: counter

conn_create_from_syn

Description Connections Created From SYN

Type: number

Format: counter

conn_create_from_synack

Description Connections Created From SYNACK

Type: number

Format: counter

conn_ofo_rate_excd

Description TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

conn_prate_excd

Description TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

conn_rexmit_rate_excd

Description TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

conn_zwindow_rate_excd

Description TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

create_conn_non_syn_dropped

Description Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

error_condition

Description Error Condition

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action WL

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

get_content_fail_error

Description Get Content Fail

Type: number

Format: counter

header_filter_action_blacklist

Description Header Filter Action Blacklist

Type: number

Format: counter

header_filter_action_default_pass

Description Header Filter Action Default Pass

Type: number

Format: counter

header_filter_action_drop

Description Header Filter Action Drop

Type: number

Format: counter

header_filter_action_whitelist

Description Header Filter Action Whitelist

Type: number

Format: counter

header_filter_filter1_match

Description Header Filter 1 Match

Type: number

Format: counter

header_filter_filter2_match

Description Header Filter 2 Match

Type: number

Format: counter

header_filter_filter3_match

Description Header Filter 3 Match

Type: number

Format: counter

header_filter_filter4_match

Description Header Filter 4 Match

Type: number

Format: counter

header_filter_filter5_match

Description Header Filter 5 Match

Type: number

Format: counter

header_filter_match

Description Header Filter Match

Type: number

Format: counter

header_filter_none_match

Description None Header Filter Match

Type: number

Format: counter

header_filter_not_match

Description Header Filter Not Match

Type: number

Format: counter

header_name_too_long

Description Max Header Name Length Exceed

Type: number

Format: counter

hybrid_auth_auth_no_match

Description SYN Auth Hybrid Auth No Match Drop

Type: number

Format: counter

hybrid_auth_auth_no_match_ack_rcv

Description SYN Auth Hybrid Auth No Match Drop: ACK Received

Type: number

Format: counter

hybrid_auth_auth_no_match_rst_rcv

Description SYN Auth Hybrid Auth No Match Drop: RST Received

Type: number

Format: counter

hybrid_auth_entry_aged_out

Description SYN Auth Hybrid Entry Aged Out

Type: number

Format: counter

hybrid_auth_filter_full

Description SYN Auth Hybrid Filter Full

Type: number

Format: counter

hybrid_auth_invalid_fail

Description SYN Auth Hybrid Invalid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_invalid_pass

Description SYN Auth Hybrid Invalid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_invalid_sa_sent

Description SYN Auth Hybrid Invalid SYNACK Sent

Type: number

Format: counter

hybrid_auth_lookup_fail

Description SYN Auth Hybrid Lookup Fail

Type: number

Format: counter

hybrid_auth_method_change

Description SYN Auth Hybrid Method Change

Type: number

Format: counter

hybrid_auth_unknown_fail

Description SYN Auth Hybrid Unknown Auth Fail

Type: number

Format: counter

hybrid_auth_unknown_pass

Description SYN Auth Hybrid Unknown Auth Pass

Type: number

Format: counter

hybrid_auth_valid_fail

Description SYN Auth Hybrid Valid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_valid_pass

Description SYN Auth Hybrid Valid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_valid_sa_sent

Description SYN AUth Hybrid Valid SYNACK Sent

Type: number

Format: counter

idle_timeout

Description Idle Timeout

Type: number

Format: counter

invalid_header

Description Invalid Header

Type: number

Format: counter

invalid_start_line_error

Description Invalid Start Line

Type: number

Format: counter

keep_alive_msg

Description KeepAlive Message

Type: number

Format: counter

line_mem_allocated

Description Line Memory Allocated

Type: number

Format: counter

line_mem_freed

Description Line Memory Freed

Type: number

Format: counter

line_too_long

Description Line Too Long

Type: number

Format: counter

malform_request

Description Malformed Request

Type: number

Format: counter

max_call_id_len_exceed

Description Max Call ID Length Exceed

Type: number

Format: counter

max_header_value_len_exceed

Description Max Header Value Length Exceed

Type: number

Format: counter

max_sdp_len_exceed

Description Max SDP Length Exceed

Type: number

Format: counter

max_uri_len_exceed

Description Max URI Length Exceed

Type: number

Format: counter

mem_alloc_fail_error

Description Memory Allocate Fail

Type: number

Format: counter

ofo_queue_size_exceed

Description Out-Of-Order Queue Size Exceed

Type: number

Format: counter

ofo_timeout

Description Out-of-Order Timeout

Type: number

Format: counter

out_of_seq_excd

Description Out-Of-Seq Exceeded

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

parse_header_fail_error

Description Header Parse Fail

Type: number

Format: counter

parse_start_line_error

Description Start Line Parse Error

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

pkts_ofo_total

Description Packet Out-Of-Order Total

Type: number

Format: counter

pkts_retrans_total

Description Packets Retransmit Total

Type: number

Format: counter

policy_drop

Description Policy Drop

Type: number

Format: counter

policy_violation

Description Policy Violation

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_syn_rate_exceed

Description TCP SYN Rate Exceeded

Type: number

Format: counter

port_synack_rate_exceed

Description TCP SYNACK Rate Exceeded

Type: number

Format: counter

prog_conn_exceed_bl

Description Connection: Violation Exceed Blacklisted

Type: number

Format: counter

prog_conn_exceed_drop

Description Connection: Violation Exceed Dropped

Type: number

Format: counter

prog_conn_exceed_reset

Description Connection: Violation Exceed Reset

Type: number

Format: counter

prog_conn_rcvd_exceed

Description Connection: Received Exceed

Type: number

Format: counter

prog_conn_rcvd_sent_ratio_exceed

Description Connection: Reveived to Sent Ratio Exceed

Type: number

Format: counter

prog_conn_samples

Description Sample Collected: Connection

Type: number

Format: counter

prog_conn_samples_processed

Description Sample Processed: Connnection

Type: number

Format: counter

prog_conn_sent_exceed

Description Connection: Sent Exceed

Type: number

Format: counter

prog_conn_time_exceed

Description Connection: Time Exceed

Type: number

Format: counter

prog_exceed_bl

Description Req-Resp: Violation Exceed Blacklisted

Type: number

Format: counter

prog_exceed_drop

Description Req-Resp: Violation Exceed Dropped

Type: number

Format: counter

prog_exceed_reset

Description Req-Resp: Violation Exceed Reset

Type: number

Format: counter

prog_first_req_time_exceed

Description Req-Resp: First Request Time Exceed

Type: number

Format: counter

prog_query_exceed

Description Req-Resp: Client Query Time Exceed

Type: number

Format: counter

prog_req_resp_time_exceed

Description Req-Resp: Request to Response Time Exceed

Type: number

Format: counter

prog_req_samples

Description Sample Collected: Req-Resp

Type: number

Format: counter

prog_req_samples_processed

Description Sample Processed: Req-Resp

Type: number

Format: counter

prog_request_len_exceed

Description Req-Resp: Request Length Exceed

Type: number

Format: counter

prog_resp_pkt_rate_exceed

Description Req-Resp: Response Packet Rate Exceed

Type: number

Format: counter

prog_resp_req_time_exceed

Description Req-Resp: Response to Request Time Exceed

Type: number

Format: counter

prog_response_len_exceed

Description Req-Resp: Response Length Exceed

Type: number

Format: counter

prog_think_exceed

Description Req-Resp: Server Think Time Exceed

Type: number

Format: counter

prog_win_exceed_bl

Description Time Window: Violation Exceed Blacklisted

Type: number

Format: counter

prog_win_exceed_drop

Description Time Window: Violation Exceed Dropped

Type: number

Format: counter

prog_win_exceed_reset

Description Time Window: Violation Exceed Reset

Type: number

Format: counter

prog_win_rcvd_exceed

Description Time Window: Received Exceed

Type: number

Format: counter

prog_win_rcvd_sent_ratio_exceed

Description Time Window: Received to Sent Exceed

Type: number

Format: counter

prog_win_samples

Description Sample Collected: Time Window

Type: number

Format: counter

prog_win_samples_processed

Description Sample Processed: Time Window

Type: number

Format: counter

prog_win_sent_exceed

Description Time Window: Sent Exceed

Type: number

Format: counter

rate1_limit_exceed

Description Dst Request Rate 1 Limit Exceed

Type: number

Format: counter

rate2_limit_exceed

Description Dst Request Rate 2 Limit Exceed

Type: number

Format: counter

rate3_limit_exceed

Description Dst Request Rate 3 Limit Exceed

Type: number

Format: counter

read_start_line_error

Description Start Line Read Error

Type: number

Format: counter

request_method_ack

Description Request Method ACK

Type: number

Format: counter

request_method_bye

Description Request Method BYE

Type: number

Format: counter

request_method_cancel

Description Request Method CANCEL

Type: number

Format: counter

request_method_info

Description Request Method INFO

Type: number

Format: counter

request_method_invite

Description Request Method INVITE

Type: number

Format: counter

request_method_message

Description Request Method MESSAGE

Type: number

Format: counter

request_method_notify

Description Request Method NOTIFY

Type: number

Format: counter

request_method_options

Description Request Method OPTIONS

Type: number

Format: counter

request_method_prack

Description Request Method PRACK

Type: number

Format: counter

request_method_publish

Description Request Method PUBLISH

Type: number

Format: counter

request_method_refer

Description Request Method REFER

Type: number

Format: counter

request_method_register

Description Request Method REGISTER

Type: number

Format: counter

request_method_subscribe

Description Request Method SUBSCRIBE

Type: number

Format: counter

request_method_unknown

Description Unknown Request Method

Type: number

Format: counter

request_method_update

Description Request Method UPDATE

Type: number

Format: counter

request_unknown_version

Description Unknown Request Version

Type: number

Format: counter

response_1xx

Description Response Status Code 1xx

Type: number

Format: counter

response_2xx

Description Response Status Code 2xx

Type: number

Format: counter

response_3xx

Description Response Status Code 3xx

Type: number

Format: counter

response_4xx

Description Response Status Code 4xx

Type: number

Format: counter

response_5xx

Description Response Status Code 5xx

Type: number

Format: counter

response_6xx

Description Response Status Code 6xx

Type: number

Format: counter

response_unknown

Description Unknown Response Status Code

Type: number

Format: counter

response_unknown_version

Description Unknown Response Version

Type: number

Format: counter

retransmit_excd

Description Retransmit Exceeded

Type: number

Format: counter

rst_cookie_fail

Description RST Cookie Failed

Type: number

Format: counter

seq_check_ofo

Description Sequence Check Out-Of-Order

Type: number

Format: counter

seq_check_retrans_fin

Description Sequence Check Retransmit Fin

Type: number

Format: counter

seq_check_retrans_other

Description Sequence Check Retransmit Other

Type: number

Format: counter

seq_check_retrans_push

Description Sequence Check Retransmit Push

Type: number

Format: counter

seq_check_retrans_rst

Description Sequence Check Retransmit Rst

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

small_window_excd

Description Small-Window Exceeded

Type: number

Format: counter

small_window_rcv

Description Small-Window Receive

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

src_ack_auth_fail

Description Src ACK Retry Dropped

Type: number

Format: counter

src_ack_retry_blacklist

Description Src ACK Retry Timeout Blacklisted

Type: number

Format: counter

src_ack_retry_gap_drop

Description Src ACK Retry Retry-Gap Dropped

Type: number

Format: counter

src_ack_retry_init

Description Src ACK Retry Init

Type: number

Format: counter

src_ack_retry_reset

Description Src ACK Retry Timeout Reset

Type: number

Format: counter

src_ack_retry_rto_fail

Description Src ACK Retry RTO Dropped

Type: number

Format: counter

src_ack_retry_rto_pass

Description Src ACK Retry RTO Passed

Type: number

Format: counter

src_ack_retry_rto_progress

Description Src ACK Retry RTO Progress

Type: number

Format: counter

src_ack_retry_timeout

Description Src ACK Retry Timeout

Type: number

Format: counter

src_auth_drop

Description Src TCP Auth Dropped

Type: number

Format: counter

src_auth_drop_ack

Description Src TCP Auth Dropped: ACK

Type: number

Format: counter

src_auth_drop_ack_fail_auth

Description Src TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

src_auth_drop_ack_pass_auth

Description Src TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

src_auth_drop_ack_xmit

Description Src TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

src_auth_drop_rst

Description Src TCP Auth Dropped: RST

Type: number

Format: counter

src_auth_drop_rst_fail_auth

Description Src TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

src_auth_drop_rst_pass_auth

Description Src TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

src_auth_drop_rst_xmit

Description Src TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

src_auth_drop_syn

Description Src TCP Auth Dropped: SYN

Type: number

Format: counter

src_conn_ofo_rate_excd

Description Src TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_conn_rexmit_rate_excd

Description Src TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

src_conn_zwindow_rate_excd

Description Src TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

src_create_conn_non_syn_dropped

Description Src Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_out_of_seq_excd

Description Src Out-Of-Seq Exceeded

Type: number

Format: counter

src_rate1_limit_exceed

Description Src Request Rate 1 Limit Exceed

Type: number

Format: counter

src_rate2_limit_exceed

Description Src Request Rate 2 Limit Exceed

Type: number

Format: counter

src_rate3_limit_exceed

Description Src Request Rate 3 Limit Exceed

Type: number

Format: counter

src_retransmit_excd

Description Src Retransmit Exceeded

Type: number

Format: counter

src_rst_cookie_fail

Description Src RST Cookie Failed

Type: number

Format: counter

src_small_window_excd

Description Src Small-Window Exceeded

Type: number

Format: counter

src_syn_auth_fail

Description Src SYN Auth Failed

Type: number

Format: counter

src_syn_cookie_fail

Description Src SYN Cookie Failed

Type: number

Format: counter

src_syn_cookie_sent

Description Src SYN Cookie Sent

Type: number

Format: counter

src_syn_rate_exceed

Description Src TCP SYN Rate Exceeded

Type: number

Format: counter

src_syn_retry_blacklist

Description Src SYN Retry Timeout Blacklisted

Type: number

Format: counter

src_syn_retry_failed

Description Src SYN Retry Dropped

Type: number

Format: counter

src_syn_retry_gap_drop

Description Src SYN Retry-Gap Dropped

Type: number

Format: counter

src_syn_retry_init

Description Src SYN Retry Init

Type: number

Format: counter

src_syn_retry_reset

Description Src SYN Retry Timeout Reset

Type: number

Format: counter

src_syn_retry_rto_fail

Description Src SYN Retry RTO Dropped

Type: number

Format: counter

src_syn_retry_rto_pass

Description Src SYN Retry RTO Passed

Type: number

Format: counter

src_syn_retry_rto_progress

Description Src SYN Retry RTO Progress

Type: number

Format: counter

src_syn_retry_timeout

Description Src SYN Retry Timeout

Type: number

Format: counter

src_tcp_auth_rst

Description Src TCP Auth Reset

Type: number

Format: counter

src_unauth_drop

Description Src TCP Unauth Dropped

Type: number

Format: counter

src_well_known_port

Description Src TCP SrcPort Wellknown

Type: number

Format: counter

src_zero_window_excd

Description Src Zero-Window Exceeded

Type: number

Format: counter

syn_auth_fail

Description SYN Auth Failed

Type: number

Format: counter

syn_auth_pass

Description SYN Auth Passed

Type: number

Format: counter

syn_auth_rst_ack_drop

Description SYN Auth RST-ACK Dropped

Type: number

Format: counter

syn_cookie_fail

Description SYN Cookie Failed

Type: number

Format: counter

syn_cookie_sent

Description SYN Cookie Sent

Type: number

Format: counter

syn_drop

Description SYN Dropped

Type: number

Format: counter

syn_retry_blacklist

Description SYN Retry Timeout Blacklisted

Type: number

Format: counter

syn_retry_failed

Description SYN Retry Dropped

Type: number

Format: counter

syn_retry_gap_drop

Description SYN Retry-Gap Dropped

Type: number

Format: counter

syn_retry_init

Description SYN Retry Init

Type: number

Format: counter

syn_retry_pass

Description SYN Retry Passed

Type: number

Format: counter

syn_retry_reset

Description SYN Retry Timeout Reset

Type: number

Format: counter

syn_retry_rto_fail

Description SYN Retry RTO Dropped

Type: number

Format: counter

syn_retry_rto_pass

Description SYN Retry RTO Passed

Type: number

Format: counter

syn_retry_rto_progress

Description SYN Retry RTO Progress

Type: number

Format: counter

syn_retry_timeout

Description SYN Retry Timeout

Type: number

Format: counter

syn_tfo_rcv

Description SYN TFO Received

Type: number

Format: counter

synack_multiple_attempts_per_ip_detected

Description SYNACK Multiple Attempts Per IP Detected

Type: number

Format: counter

synack_reset_sent

Description SYNACK Reset Sent

Type: number

Format: counter

tcp_ack_data_drop

Description TCP ACK with Data Dropped

Type: number

Format: counter

tcp_ack_data_fwd

Description TCP ACK with Data Forward

Type: number

Format: counter

tcp_ack_data_rcvd

Description TCP ACK with Data Received

Type: number

Format: counter

tcp_ack_drop

Description TCP ACK Dropped

Type: number

Format: counter

tcp_ack_fwd

Description TCP ACK Forward

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_auth_drop

Description TCP Auth Dropped

Type: number

Format: counter

tcp_auth_drop_ack

Description TCP Auth Dropped: ACK

Type: number

Format: counter

tcp_auth_drop_ack_fail_auth

Description TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

tcp_auth_drop_ack_pass_auth

Description TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

tcp_auth_drop_ack_xmit

Description TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

tcp_auth_drop_rst

Description TCP Auth Dropped: RST

Type: number

Format: counter

tcp_auth_drop_rst_fail_auth

Description TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

tcp_auth_drop_rst_pass_auth

Description TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

tcp_auth_drop_rst_xmit

Description TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

tcp_auth_drop_syn

Description TCP Auth Dropped: SYN

Type: number

Format: counter

tcp_auth_resp

Description TCP Auth Responded

Type: number

Format: counter

tcp_auth_rst

Description TCP Auth Reset

Type: number

Format: counter

tcp_cwr_drop

Description TCP CWR Dropped

Type: number

Format: counter

tcp_cwr_fwd

Description TCP CWR Forward

Type: number

Format: counter

tcp_cwr_rcvd

Description TCP CWR Received

Type: number

Format: counter

tcp_ece_drop

Description TCP ECE Dropped

Type: number

Format: counter

tcp_ece_fwd

Description TCP ECE Forward

Type: number

Format: counter

tcp_ece_rcvd

Description TCP ECE Received

Type: number

Format: counter

tcp_empty_ack_drop

Description TCP Empty ACK Dropped

Type: number

Format: counter

tcp_empty_ack_fwd

Description TCP Empty ACK Forward

Type: number

Format: counter

tcp_empty_ack_rcvd

Description TCP Empty ACK Received

Type: number

Format: counter

tcp_fin_ack_drop

Description TCP FIN ACK Dropped

Type: number

Format: counter

tcp_fin_ack_fwd

Description TCP FIN ACK Forward

Type: number

Format: counter

tcp_fin_ack_rcvd

Description TCP FIN ACK Received

Type: number

Format: counter

tcp_fin_drop

Description TCP FIN Dropped

Type: number

Format: counter

tcp_fin_fwd

Description TCP FIN Forward

Type: number

Format: counter

tcp_fin_psh_ack_drop

Description TCP FIN PSH ACK Drop

Type: number

Format: counter

tcp_fin_psh_ack_fwd

Description TCP FIN PSH ACK Forward

Type: number

Format: counter

tcp_fin_psh_ack_rcvd

Description TCP FIN PSH ACK Received

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_psh_ack_drop

Description TCP PSH ACK Dropped

Type: number

Format: counter

tcp_psh_ack_fwd

Description TCP PSH ACK Forward

Type: number

Format: counter

tcp_psh_ack_rcvd

Description TCP PSH ACK Received

Type: number

Format: counter

tcp_psh_drop

Description TCP PSH Dropped

Type: number

Format: counter

tcp_psh_fwd

Description TCP PSH Forward

Type: number

Format: counter

tcp_psh_rcvd

Description TCP PSH Received

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP SYN Retransmit Exceeded Blacklist

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP SYN Retransmit Exceeded Drop

Type: number

Format: counter

tcp_rst_ack_drop

Description TCP RST ACK Dropped

Type: number

Format: counter

tcp_rst_ack_fwd

Description TCP RST ACK Forward

Type: number

Format: counter

tcp_rst_ack_rcvd

Description TCP RST ACK Received

Type: number

Format: counter

tcp_rst_drop

Description TCP RST Dropped

Type: number

Format: counter

tcp_rst_fwd

Description TCP RST Forward

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_syn_ack_drop

Description TCP SYN ACK Dropped

Type: number

Format: counter

tcp_syn_ack_fwd

Description TCP SYN ACK Forward

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_fwd

Description SYN Forward

Type: number

Format: counter

tcp_syn_rcvd

Description TCP Inbound SYN Received

Type: number

Format: counter

tcp_urg_drop

Description TCP URG Dropped

Type: number

Format: counter

tcp_urg_fwd

Description TCP URG Forward

Type: number

Format: counter

tcp_urg_rcvd

Description TCP URG Received

Type: number

Format: counter

too_many_header

Description Max Header Count Exceed

Type: number

Format: counter

unauth_drop

Description TCP Unauth Dropped

Type: number

Format: counter

wellknown_sport_drop

Description TCP SrcPort Wellknown

Type: number

Format: counter

zero_window_excd

Description Zero-Window Exceeded

Type: number

Format: counter

2.33.450 ddos sip-tcp-zone-port stats

Statistics for the object sip-tcp-zone-port

sip-tcp-zone-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*sip-tcp-zone-port-list*
Collection URI	/axapi/v3/ddos/sip-tcp-zone-port
Element Name	sip-tcp-zone-port
Element URI	/axapi/v3/ddos/sip-tcp-zone-port/stats
Element Attributes	sip-tcp-zone-port_attributes
Partition Visibility	None
Schema	`sip-tcp-zone-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/sip-tcp-zone-port

sip-tcp-zone-port attributes

Create List

POST

/axapi/v3/ddos/sip-tcp-zone-port

sip-tcp-zone-port attributes

Get Object

GET

/axapi/v3/ddos/sip-tcp-zone-port/stats

sip-tcp-zone-port attributes

Get List

GET

/axapi/v3/ddos/sip-tcp-zone-port

sip-tcp-zone-port-list

Modify Object

POST

/axapi/v3/ddos/sip-tcp-zone-port/stats

sip-tcp-zone-port attributes

Replace Object

PUT

/axapi/v3/ddos/sip-tcp-zone-port/stats

sip-tcp-zone-port attributes

Replace List

PUT

/axapi/v3/ddos/sip-tcp-zone-port

sip-tcp-zone-port-list

Delete Object

DELETE

/axapi/v3/ddos/sip-tcp-zone-port/stats

sip-tcp-zone-port attributes

sip-tcp-zone-port-list

sip-tcp-zone-port-list is **JSON List** of *sip-tcp-zone-port attributes*

sip-tcp-zone-port-list : [

{ *sip-tcp-zone-port attributes* },

{ *sip-tcp-zone-port attributes* },

...

]

sip-tcp-zone-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ack_auth_fail

Description ACK Retry Dropped

Type: number

Format: counter

ack_retry_blacklist

Description ACK Retry Timeout Blacklisted

Type: number

Format: counter

ack_retry_gap_drop

Description ACK Retry Retry-Gap Dropped

Type: number

Format: counter

ack_retry_init

Description ACK Retry Init

Type: number

Format: counter

ack_retry_pass

Description ACK Retry Passed

Type: number

Format: counter

ack_retry_reset

Description ACK Retry Timeout Reset

Type: number

Format: counter

ack_retry_rto_fail

Description ACK Retry RTO Dropped

Type: number

Format: counter

ack_retry_rto_pass

Description ACK Retry RTO Passed

Type: number

Format: counter

ack_retry_rto_progress

Description ACK Retry RTO Progress

Type: number

Format: counter

ack_retry_timeout

Description ACK Retry Timeout

Type: number

Format: counter

all_src_session_reset

Description Session Reset for All Src Upon Level Escalation

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

body_too_big

Description Body Too Big

Type: number

Format: counter

clear_session_upon_deescalation

Description Clear Session Upon De-escalation to Level 0

Type: number

Format: counter

client_rst

Description Client Rst

Type: number

Format: counter

concatenate_msg

Description Concatenate Message

Type: number

Format: counter

conn_close

Description Connections Closed

Type: number

Format: counter

conn_close_half_open

Description Half Open Connections Closed

Type: number

Format: counter

conn_close_w_fin

Description FIN Connections Closed

Type: number

Format: counter

conn_close_w_idle

Description Idle Connections Closed

Type: number

Format: counter

conn_close_w_rst

Description RST Connections Closed

Type: number

Format: counter

conn_create_from_ack

Description Connections Created From ACK

Type: number

Format: counter

conn_create_from_syn

Description Connections Created From SYN

Type: number

Format: counter

conn_create_from_synack

Description Connections Created From SYNACK

Type: number

Format: counter

conn_ofo_rate_excd

Description TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

conn_prate_excd

Description TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

conn_rexmit_rate_excd

Description TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

conn_zwindow_rate_excd

Description TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

create_conn_non_syn_dropped

Description Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

current_es_level

Description Current Escalation Level

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

dst_hw_drop_inserted

Description Dst Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_removed

Description Dst Hardware Drop Rules Removed

Type: number

Format: counter

dst_tcp_conn_half_open_timeout

Description Half Open Connections Timeout

Type: number

Format: counter

dst_tcp_conn_half_open_timeout_rst_sent

Description Half Open Connections Timeout RST Sent

Type: number

Format: counter

dst_tcp_sess_aged_rst_sent

Description Sessions Aged Out RST Sent

Type: number

Format: counter

dynamic_count_warn

Description dynamic-entry-count warning send

Type: number

Format: counter

error_condition

Description Error Condition

Type: number

Format: counter

ew_inbound_port_byte_drop

Description East-West Inbound Bytes Dropped

Type: number

Format: counter

ew_inbound_port_byte_rcv

Description East-West Inbound Bytes Recevied

Type: number

Format: counter

ew_inbound_port_byte_sent

Description East-West Inbound Bytes Forwarded

Type: number

Format: counter

ew_inbound_port_drop

Description East-West Inbound Packets Dropped

Type: number

Format: counter

ew_inbound_port_rcv

Description East-West Inbound Packets Received

Type: number

Format: counter

ew_inbound_port_sent

Description East-West Inbound Packets Forwarded

Type: number

Format: counter

ew_outbound_port_byte_drop

Description East-West Outbound Bytes Forwarded

Type: number

Format: counter

ew_outbound_port_byte_rcv

Description East-West Outbound Bytes Recevied

Type: number

Format: counter

ew_outbound_port_byte_sent

Description East-West Outbound Bytes Dropped

Type: number

Format: counter

ew_outbound_port_drop

Description East-West Outbound Packets Dropped

Type: number

Format: counter

ew_outbound_port_rcv

Description East-West Outbound Packets Received

Type: number

Format: counter

ew_outbound_port_sent

Description East-West Outbound Packets Forwarded

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action WL

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

get_content_fail_error

Description Get Content Fail

Type: number

Format: counter

header_filter_action_blacklist

Description Header Filter Action Blacklist

Type: number

Format: counter

header_filter_action_default_pass

Description Header Filter Action Default Pass

Type: number

Format: counter

header_filter_action_drop

Description Header Filter Action Drop

Type: number

Format: counter

header_filter_action_whitelist

Description Header Filter Action Whitelist

Type: number

Format: counter

header_filter_filter1_match

Description Header Filter 1 Match

Type: number

Format: counter

header_filter_filter2_match

Description Header Filter 2 Match

Type: number

Format: counter

header_filter_filter3_match

Description Header Filter 3 Match

Type: number

Format: counter

header_filter_filter4_match

Description Header Filter 4 Match

Type: number

Format: counter

header_filter_filter5_match

Description Header Filter 5 Match

Type: number

Format: counter

header_filter_match

Description Header Filter Match

Type: number

Format: counter

header_filter_none_match

Description None Header Filter Match

Type: number

Format: counter

header_filter_not_match

Description Header Filter Not Match

Type: number

Format: counter

header_name_too_long

Description Max Header Name Length Exceed

Type: number

Format: counter

hybrid_auth_auth_no_match

Description SYN Auth Hybrid Auth No Match Drop

Type: number

Format: counter

hybrid_auth_auth_no_match_ack_rcv

Description SYN Auth Hybrid Auth No Match Drop: ACK Received

Type: number

Format: counter

hybrid_auth_auth_no_match_rst_rcv

Description SYN Auth Hybrid Auth No Match Drop: RST Received

Type: number

Format: counter

hybrid_auth_entry_aged_out

Description SYN Auth Hybrid Entry Aged Out

Type: number

Format: counter

hybrid_auth_filter_full

Description SYN Auth Hybrid Filter Full

Type: number

Format: counter

hybrid_auth_invalid_fail

Description SYN Auth Hybrid Invalid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_invalid_pass

Description SYN Auth Hybrid Invalid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_invalid_sa_sent

Description SYN Auth Hybrid Invalid SYNACK Sent

Type: number

Format: counter

hybrid_auth_lookup_fail

Description SYN Auth Hybrid Lookup Fail

Type: number

Format: counter

hybrid_auth_method_change

Description SYN Auth Hybrid Method Change

Type: number

Format: counter

hybrid_auth_unknown_fail

Description SYN Auth Hybrid Unknown Auth Fail

Type: number

Format: counter

hybrid_auth_unknown_pass

Description SYN Auth Hybrid Unknown Auth Pass

Type: number

Format: counter

hybrid_auth_valid_fail

Description SYN Auth Hybrid Valid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_valid_pass

Description SYN Auth Hybrid Valid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_valid_sa_sent

Description SYN Auth Hybrid Valid SYNACK Sent

Type: number

Format: counter

idle_timeout

Description Idle Timeout

Type: number

Format: counter

invalid_header

Description Invalid Header

Type: number

Format: counter

invalid_start_line_error

Description Invalid Start Line

Type: number

Format: counter

ip_filtering_bl

Description IP Filtering Policy: Blacklisted

Type: number

Format: counter

ip_filtering_drop

Description IP Filtering Policy: Dropped

Type: number

Format: counter

keep_alive_msg

Description KeepAlive Message

Type: number

Format: counter

line_mem_allocated

Description Line Memory Allocated

Type: number

Format: counter

line_mem_freed

Description Line Memory Freed

Type: number

Format: counter

line_too_long

Description Line Too Long

Type: number

Format: counter

malform_request

Description Malformed Request

Type: number

Format: counter

max_call_id_len_exceed

Description Max Call ID Length Exceed

Type: number

Format: counter

max_header_value_len_exceed

Description Max Header Value Length Exceed

Type: number

Format: counter

max_sdp_len_exceed

Description Max SDP Length Exceed

Type: number

Format: counter

max_uri_len_exceed

Description Max URI Length Exceed

Type: number

Format: counter

mem_alloc_fail_error

Description Memory Allocate Fail

Type: number

Format: counter

no_policy_class_list_match

Description No Policy Class-list Match

Type: number

Format: counter

no_route_drop

Description No Route Dropped

Type: number

Format: counter

ofo_queue_size_exceed

Description Out-Of-Order Queue Size Exceed

Type: number

Format: counter

ofo_timeout

Description Out-of-Order Timeout

Type: number

Format: counter

out_of_seq_excd

Description Out-Of-Seq Exceeded

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

parse_header_fail_error

Description Header Parse Fail

Type: number

Format: counter

parse_start_line_error

Description Start Line Parse Error

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

pkts_ofo_total

Description Packet Out-Of-Order Total

Type: number

Format: counter

pkts_retrans_total

Description Packets Retransmit Total

Type: number

Format: counter

policy_drop

Description Policy Drop

Type: number

Format: counter

policy_violation

Description Policy Violation

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_src_escalation

Description Src Escalation

Type: number

Format: counter

port_syn_rate_exceed

Description TCP SYN Rate Exceeded

Type: number

Format: counter

port_synack_rate_exceed

Description TCP SYNACK Rate Exceeded

Type: number

Format: counter

prog_conn_exceed_bl

Description Connection: Violation Exceed Blacklisted

Type: number

Format: counter

prog_conn_exceed_drop

Description Connection: Violation Exceed Dropped

Type: number

Format: counter

prog_conn_exceed_reset

Description Connection: Violation Exceed Reset

Type: number

Format: counter

prog_conn_rcvd_exceed

Description Connection: Received Exceed

Type: number

Format: counter

prog_conn_rcvd_sent_ratio_exceed

Description Connection: Reveived to Sent Ratio Exceed

Type: number

Format: counter

prog_conn_samples

Description Sample Collected: Connection

Type: number

Format: counter

prog_conn_samples_processed

Description Sample Processed: Connnection

Type: number

Format: counter

prog_conn_sent_exceed

Description Connection: Sent Exceed

Type: number

Format: counter

prog_conn_time_exceed

Description Connection: Time Exceed

Type: number

Format: counter

prog_exceed_bl

Description Req-Resp: Violation Exceed Blacklisted

Type: number

Format: counter

prog_exceed_drop

Description Req-Resp: Violation Exceed Dropped

Type: number

Format: counter

prog_exceed_reset

Description Req-Resp: Violation Exceed Reset

Type: number

Format: counter

prog_first_req_time_exceed

Description Req-Resp: First Request Time Exceed

Type: number

Format: counter

prog_query_exceed

Description Req-Resp: Client Query Time Exceed

Type: number

Format: counter

prog_req_resp_time_exceed

Description Req-Resp: Request to Response Time Exceed

Type: number

Format: counter

prog_req_samples

Description Sample Collected: Req-Resp

Type: number

Format: counter

prog_req_samples_processed

Description Sample Processed: Req-Resp

Type: number

Format: counter

prog_request_len_exceed

Description Req-Resp: Request Length Exceed

Type: number

Format: counter

prog_resp_pkt_rate_exceed

Description Req-Resp: Response Packet Rate Exceed

Type: number

Format: counter

prog_resp_req_time_exceed

Description Req-Resp: Response to Request Time Exceed

Type: number

Format: counter

prog_response_len_exceed

Description Req-Resp: Response Length Exceed

Type: number

Format: counter

prog_think_exceed

Description Req-Resp: Server Think Time Exceed

Type: number

Format: counter

prog_win_exceed_bl

Description Time Window: Violation Exceed Blacklisted

Type: number

Format: counter

prog_win_exceed_drop

Description Time Window: Violation Exceed Dropped

Type: number

Format: counter

prog_win_exceed_reset

Description Time Window: Violation Exceed Reset

Type: number

Format: counter

prog_win_rcvd_exceed

Description Time Window: Received Exceed

Type: number

Format: counter

prog_win_rcvd_sent_ratio_exceed

Description Time Window: Received to Sent Exceed

Type: number

Format: counter

prog_win_samples

Description Sample Collected: Time Window

Type: number

Format: counter

prog_win_samples_processed

Description Sample Processed: Time Window

Type: number

Format: counter

prog_win_sent_exceed

Description Time Window: Sent Exceed

Type: number

Format: counter

rate1_limit_exceed

Description Dst Request Rate 1 Limit Exceed

Type: number

Format: counter

rate2_limit_exceed

Description Dst Request Rate 2 Limit Exceed

Type: number

Format: counter

rate3_limit_exceed

Description Dst Request Rate 3 Limit Exceed

Type: number

Format: counter

read_start_line_error

Description Start Line Read Error

Type: number

Format: counter

request_method_ack

Description Request Method ACK

Type: number

Format: counter

request_method_bye

Description Request Method BYE

Type: number

Format: counter

request_method_cancel

Description Request Method CANCEL

Type: number

Format: counter

request_method_info

Description Request Method INFO

Type: number

Format: counter

request_method_invite

Description Request Method INVITE

Type: number

Format: counter

request_method_message

Description Request Method MESSAGE

Type: number

Format: counter

request_method_notify

Description Request Method NOTIFY

Type: number

Format: counter

request_method_options

Description Request Method OPTIONS

Type: number

Format: counter

request_method_prack

Description Request Method PRACK

Type: number

Format: counter

request_method_publish

Description Request Method PUBLISH

Type: number

Format: counter

request_method_refer

Description Request Method REFER

Type: number

Format: counter

request_method_register

Description Request Method REGISTER

Type: number

Format: counter

request_method_subscribe

Description Request Method SUBSCRIBE

Type: number

Format: counter

request_method_unknown

Description Unknown Request Method

Type: number

Format: counter

request_method_update

Description Request Method UPDATE

Type: number

Format: counter

request_unknown_version

Description Unknown Request Version

Type: number

Format: counter

response_1xx

Description Response Status Code 1xx

Type: number

Format: counter

response_2xx

Description Response Status Code 2xx

Type: number

Format: counter

response_3xx

Description Response Status Code 3xx

Type: number

Format: counter

response_4xx

Description Response Status Code 4xx

Type: number

Format: counter

response_5xx

Description Response Status Code 5xx

Type: number

Format: counter

response_6xx

Description Response Status Code 6xx

Type: number

Format: counter

response_unknown

Description Unknown Response Status Code

Type: number

Format: counter

response_unknown_version

Description Unknown Response Version

Type: number

Format: counter

retransmit_excd

Description Retransmit Exceeded

Type: number

Format: counter

rst_cookie_fail

Description RST Cookie Failed

Type: number

Format: counter

same_sport_dport_drop

Description Same Source and Destination Port Drop

Type: number

Format: counter

secondary_port_conn_limm_exceed

Description Per Addr-Port Conn Limit Exceeded

Type: number

Format: counter

secondary_port_conn_rate_exceed

Description Per Addr-Port Conn Rate Exceeded

Type: number

Format: counter

secondary_port_hit

Description Per Addr-Port Hit

Type: number

Format: counter

secondary_port_kbit_rate_exceed

Description Per Addr-Port KiBit Rate Exceeded

Type: number

Format: counter

secondary_port_kbit_rate_exceed_pkt

Description Per Addr-Port KiBit Rate Exceeded Count

Type: number

Format: counter

secondary_port_pkt_rate_exceed

Description Per Addr-Port Packet Rate Exceeded

Type: number

Format: counter

seq_check_ofo

Description Sequence Check Out-Of-Order

Type: number

Format: counter

seq_check_retrans_fin

Description Sequence Check Retransmit Fin

Type: number

Format: counter

seq_check_retrans_other

Description Sequence Check Retransmit Other

Type: number

Format: counter

seq_check_retrans_push

Description Sequence Check Retransmit Push

Type: number

Format: counter

seq_check_retrans_rst

Description Sequence Check Retransmit Rst

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

small_window_excd

Description Small-Window Exceeded

Type: number

Format: counter

small_window_rcv

Description Small-Window Receive

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

src_ack_auth_fail

Description Src ACK Retry Dropped

Type: number

Format: counter

src_ack_retry_blacklist

Description Src ACK Retry Timeout Blacklisted

Type: number

Format: counter

src_ack_retry_gap_drop

Description Src ACK Retry Retry-Gap Dropped

Type: number

Format: counter

src_ack_retry_init

Description Src ACK Retry Init

Type: number

Format: counter

src_ack_retry_reset

Description Src ACK Retry Timeout Reset

Type: number

Format: counter

src_ack_retry_rto_fail

Description Src ACK Retry RTO Dropped

Type: number

Format: counter

src_ack_retry_rto_pass

Description Src ACK Retry RTO Passed

Type: number

Format: counter

src_ack_retry_rto_progress

Description Src ACK Retry RTO Progress

Type: number

Format: counter

src_ack_retry_timeout

Description Src ACK Retry Timeout

Type: number

Format: counter

src_auth_drop

Description Src TCP Auth Dropped

Type: number

Format: counter

src_auth_drop_ack

Description Src TCP Auth Dropped: ACK

Type: number

Format: counter

src_auth_drop_ack_fail_auth

Description Src TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

src_auth_drop_ack_pass_auth

Description Src TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

src_auth_drop_ack_xmit

Description Src TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

src_auth_drop_rst

Description Src TCP Auth Dropped: RST

Type: number

Format: counter

src_auth_drop_rst_fail_auth

Description Src TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

src_auth_drop_rst_pass_auth

Description Src TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

src_auth_drop_rst_xmit

Description Src TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

src_auth_drop_syn

Description Src TCP Auth Dropped: SYN

Type: number

Format: counter

src_conn_ofo_rate_excd

Description Src TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_conn_rexmit_rate_excd

Description Src TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

src_conn_zwindow_rate_excd

Description Src TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

src_create_conn_non_syn_dropped

Description Src Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_hw_drop_inserted

Description Src Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_removed

Description Src Hardware Drop Rules Removed

Type: number

Format: counter

src_learn_overflow

Description Source Dynamic Entry Overflow

Type: number

Format: counter

src_out_of_seq_excd

Description Src Out-Of-Seq Exceeded

Type: number

Format: counter

src_rate1_limit_exceed

Description Src Request Rate 1 Limit Exceed

Type: number

Format: counter

src_rate2_limit_exceed

Description Src Request Rate 2 Limit Exceed

Type: number

Format: counter

src_rate3_limit_exceed

Description Src Request Rate 3 Limit Exceed

Type: number

Format: counter

src_retransmit_excd

Description Src Retransmit Exceeded

Type: number

Format: counter

src_rst_cookie_fail

Description Src RST Cookie Failed

Type: number

Format: counter

src_small_window_excd

Description Src Small-Window Exceeded

Type: number

Format: counter

src_syn_auth_fail

Description Src SYN Auth Failed

Type: number

Format: counter

src_syn_cookie_fail

Description Src SYN Cookie Failed

Type: number

Format: counter

src_syn_cookie_sent

Description Src SYN Cookie Sent

Type: number

Format: counter

src_syn_rate_exceed

Description Src TCP SYN Rate Exceeded

Type: number

Format: counter

src_syn_retry_blacklist

Description Src SYN Retry Timeout Blacklisted

Type: number

Format: counter

src_syn_retry_failed

Description Src SYN Retry Dropped

Type: number

Format: counter

src_syn_retry_gap_drop

Description Src SYN Retry-Gap Dropped

Type: number

Format: counter

src_syn_retry_init

Description Src SYN Retry Init

Type: number

Format: counter

src_syn_retry_reset

Description Src SYN Retry Timeout Reset

Type: number

Format: counter

src_syn_retry_rto_fail

Description Src SYN Retry RTO Dropped

Type: number

Format: counter

src_syn_retry_rto_pass

Description Src SYN Retry RTO Passed

Type: number

Format: counter

src_syn_retry_rto_progress

Description Src SYN Retry RTO Progress

Type: number

Format: counter

src_syn_retry_timeout

Description Src SYN Retry Timeout

Type: number

Format: counter

src_tcp_auth_rst

Description Src TCP Auth Reset

Type: number

Format: counter

src_unauth_drop

Description Src TCP Unauth Dropped

Type: number

Format: counter

src_well_known_port

Description Src TCP SrcPort Wellknown

Type: number

Format: counter

src_zero_window_excd

Description Src Zero-Window Exceeded

Type: number

Format: counter

src_zone_service_entry_aged

Description SrcZoneService Entry Aged

Type: number

Format: counter

src_zone_service_entry_hit

Description SrcZoneService Entry Hit

Type: number

Format: counter

src_zone_service_entry_learned

Description SrcZoneService Entry Learned

Type: number

Format: counter

syn_auth_fail

Description SYN Auth Failed

Type: number

Format: counter

syn_auth_pass

Description SYN Auth Passed

Type: number

Format: counter

syn_auth_rst_ack_drop

Description SYN Auth RST-ACK Dropped

Type: number

Format: counter

syn_cookie_fail

Description SYN Cookie Failed

Type: number

Format: counter

syn_cookie_sent

Description SYN Cookie Sent

Type: number

Format: counter

syn_drop

Description SYN Dropped

Type: number

Format: counter

syn_retry_blacklist

Description SYN Retry Timeout Blacklisted

Type: number

Format: counter

syn_retry_failed

Description SYN Retry Dropped

Type: number

Format: counter

syn_retry_gap_drop

Description SYN Retry-Gap Dropped

Type: number

Format: counter

syn_retry_init

Description SYN Retry Init

Type: number

Format: counter

syn_retry_pass

Description SYN Retry Passed

Type: number

Format: counter

syn_retry_reset

Description SYN Retry Timeout Reset

Type: number

Format: counter

syn_retry_rto_fail

Description SYN Retry RTO Dropped

Type: number

Format: counter

syn_retry_rto_pass

Description SYN Retry RTO Passed

Type: number

Format: counter

syn_retry_rto_progress

Description SYN Retry RTO Progress

Type: number

Format: counter

syn_retry_timeout

Description SYN Retry Timeout

Type: number

Format: counter

syn_tfo_rcv

Description SYN TFO Received

Type: number

Format: counter

synack_multiple_attempts_per_ip_detected

Description SYNACK Multiple Attempts Per IP Detected

Type: number

Format: counter

synack_reset_sent

Description SYNACK Reset Sent

Type: number

Format: counter

tcp_ack_data_drop

Description TCP ACK with Data Dropped

Type: number

Format: counter

tcp_ack_data_fwd

Description TCP ACK with Data Forward

Type: number

Format: counter

tcp_ack_data_rcvd

Description TCP ACK with Data Received

Type: number

Format: counter

tcp_ack_drop

Description TCP ACK Dropped

Type: number

Format: counter

tcp_ack_fwd

Description TCP ACK Forward

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_auth_drop

Description TCP Auth Dropped

Type: number

Format: counter

tcp_auth_drop_ack

Description TCP Auth Dropped: ACK

Type: number

Format: counter

tcp_auth_drop_ack_fail_auth

Description TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

tcp_auth_drop_ack_pass_auth

Description TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

tcp_auth_drop_ack_xmit

Description TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

tcp_auth_drop_rst

Description TCP Auth Dropped: RST

Type: number

Format: counter

tcp_auth_drop_rst_fail_auth

Description TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

tcp_auth_drop_rst_pass_auth

Description TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

tcp_auth_drop_rst_xmit

Description TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

tcp_auth_drop_syn

Description TCP Auth Dropped: SYN

Type: number

Format: counter

tcp_auth_resp

Description TCP Auth Responded

Type: number

Format: counter

tcp_auth_rst

Description TCP Auth Reset

Type: number

Format: counter

tcp_cwr_drop

Description TCP CWR Dropped

Type: number

Format: counter

tcp_cwr_fwd

Description TCP CWR Forward

Type: number

Format: counter

tcp_cwr_rcvd

Description TCP CWR Received

Type: number

Format: counter

tcp_ece_drop

Description TCP ECE Dropped

Type: number

Format: counter

tcp_ece_fwd

Description TCP ECE Forward

Type: number

Format: counter

tcp_ece_rcvd

Description TCP ECE Received

Type: number

Format: counter

tcp_empty_ack_drop

Description TCP Empty ACK Dropped

Type: number

Format: counter

tcp_empty_ack_fwd

Description TCP Empty ACK Forward

Type: number

Format: counter

tcp_empty_ack_rcvd

Description TCP Empty ACK Received

Type: number

Format: counter

tcp_fin_ack_drop

Description TCP FIN ACK Dropped

Type: number

Format: counter

tcp_fin_ack_fwd

Description TCP FIN ACK Forward

Type: number

Format: counter

tcp_fin_ack_rcvd

Description TCP FIN ACK Received

Type: number

Format: counter

tcp_fin_drop

Description TCP FIN Dropped

Type: number

Format: counter

tcp_fin_fwd

Description TCP FIN Forward

Type: number

Format: counter

tcp_fin_psh_ack_drop

Description TCP FIN PSH ACK Drop

Type: number

Format: counter

tcp_fin_psh_ack_fwd

Description TCP FIN PSH ACK Forward

Type: number

Format: counter

tcp_fin_psh_ack_rcvd

Description TCP FIN PSH ACK Received

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_psh_ack_drop

Description TCP PSH ACK Dropped

Type: number

Format: counter

tcp_psh_ack_fwd

Description TCP PSH ACK Forward

Type: number

Format: counter

tcp_psh_ack_rcvd

Description TCP PSH ACK Received

Type: number

Format: counter

tcp_psh_drop

Description TCP PSH Dropped

Type: number

Format: counter

tcp_psh_fwd

Description TCP PSH Forward

Type: number

Format: counter

tcp_psh_rcvd

Description TCP PSH Received

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP SYN Retransmit Exceeded Blacklist

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP SYN Retransmit Exceeded Drop

Type: number

Format: counter

tcp_rst_ack_drop

Description TCP RST ACK Dropped

Type: number

Format: counter

tcp_rst_ack_fwd

Description TCP RST ACK Forward

Type: number

Format: counter

tcp_rst_ack_rcvd

Description TCP RST ACK Received

Type: number

Format: counter

tcp_rst_drop

Description TCP RST Dropped

Type: number

Format: counter

tcp_rst_fwd

Description TCP RST Forward

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_syn_ack_drop

Description TCP SYN ACK Dropped

Type: number

Format: counter

tcp_syn_ack_fwd

Description TCP SYN ACK Forward

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_fwd

Description SYN Forward

Type: number

Format: counter

tcp_syn_rcvd

Description TCP Inbound SYN Received

Type: number

Format: counter

tcp_urg_drop

Description TCP URG Dropped

Type: number

Format: counter

tcp_urg_fwd

Description TCP URG Forward

Type: number

Format: counter

tcp_urg_rcvd

Description TCP URG Received

Type: number

Format: counter

too_many_header

Description Max Header Count Exceed

Type: number

Format: counter

unauth_drop

Description TCP Unauth Dropped

Type: number

Format: counter

unauth_src_session_reset

Description Session Reset for Unauthenticated Src

Type: number

Format: counter

wellknown_sport_drop

Description TCP SrcPort Wellknown

Type: number

Format: counter

zero_window_excd

Description Zero-Window Exceeded

Type: number

Format: counter

2.33.451 ddos sip-udp-port stats

Statistics for the object sip-udp-port

sip-udp-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*sip-udp-port-list*
Collection URI	/axapi/v3/ddos/sip-udp-port
Element Name	sip-udp-port
Element URI	/axapi/v3/ddos/sip-udp-port/stats
Element Attributes	sip-udp-port_attributes
Partition Visibility	None
Schema	`sip-udp-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/sip-udp-port

sip-udp-port attributes

Create List

POST

/axapi/v3/ddos/sip-udp-port

sip-udp-port attributes

Get Object

GET

/axapi/v3/ddos/sip-udp-port/stats

sip-udp-port attributes

Get List

GET

/axapi/v3/ddos/sip-udp-port

sip-udp-port-list

Modify Object

POST

/axapi/v3/ddos/sip-udp-port/stats

sip-udp-port attributes

Replace Object

PUT

/axapi/v3/ddos/sip-udp-port/stats

sip-udp-port attributes

Replace List

PUT

/axapi/v3/ddos/sip-udp-port

sip-udp-port-list

Delete Object

DELETE

/axapi/v3/ddos/sip-udp-port/stats

sip-udp-port attributes

sip-udp-port-list

sip-udp-port-list is **JSON List** of *sip-udp-port attributes*

```
sip-udp-port-list : [
        { sip-udp-port attributes },
        { sip-udp-port attributes },
        ...
    ]
```

sip-udp-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

bl

Description Dst Blacklisted

Type: number

Format: counter

body_too_big

Description Body Too Big

Type: number

Format: counter

concatenate_msg

Description Concatenate Message

Type: number

Format: counter

conn_prate_excd

Description UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action Whitelist

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

get_content_fail_error

Description Get Content Fail

Type: number

Format: counter

header_filter_action_blacklist

Description Header Filter Action Blacklist

Type: number

Format: counter

header_filter_action_default_pass

Description Header Filter Action Default Pass

Type: number

Format: counter

header_filter_action_drop

Description Header Filter Action Drop

Type: number

Format: counter

header_filter_action_whitelist

Description Header Filter Action Whitelist

Type: number

Format: counter

header_filter_filter1_match

Description Header Filter 1 Match

Type: number

Format: counter

header_filter_filter2_match

Description Header Filter 2 Match

Type: number

Format: counter

header_filter_filter3_match

Description Header Filter 3 Match

Type: number

Format: counter

header_filter_filter4_match

Description Header Filter 4 Match

Type: number

Format: counter

header_filter_filter5_match

Description Header Filter 5 Match

Type: number

Format: counter

header_filter_match

Description Header Filter Match

Type: number

Format: counter

header_filter_none_match

Description None Header Filter Match

Type: number

Format: counter

header_filter_not_match

Description Header Filter Not Match

Type: number

Format: counter

header_name_too_long

Description Max Header Name Length Exceed

Type: number

Format: counter

invalid_header

Description Invalid Header

Type: number

Format: counter

invalid_start_line_error

Description Invalid Start Line

Type: number

Format: counter

keep_alive_msg

Description KeepAlive Message

Type: number

Format: counter

line_mem_allocated

Description Line Memory Allocated

Type: number

Format: counter

line_mem_freed

Description Line Memory Freed

Type: number

Format: counter

line_too_long

Description Line Too Long

Type: number

Format: counter

malform_request

Description Malformed Request

Type: number

Format: counter

max_call_id_len_exceed

Description Max Call ID Length Exceed

Type: number

Format: counter

max_header_value_len_exceed

Description Max Header Value Length Exceed

Type: number

Format: counter

max_sdp_len_exceed

Description Max SDP Length Exceed

Type: number

Format: counter

max_uri_len_exceed

Description Max URI Length Exceed

Type: number

Format: counter

mem_alloc_fail_error

Description Memory Allocate Fail

Type: number

Format: counter

ntp_monlist_req

Description NTP Monlist Request

Type: number

Format: counter

ntp_monlist_resp

Description NTP Monlist Response

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

parse_header_fail_error

Description Header Parse Fail

Type: number

Format: counter

parse_start_line_error

Description Start Line Parse Error

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

payload_too_big

Description UDP Payload Too Large

Type: number

Format: counter

payload_too_small

Description UDP Payload Too Small

Type: number

Format: counter

policy_drop

Description Policy Drop

Type: number

Format: counter

policy_violation

Description Policy Violation

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

rate1_limit_exceed

Description Dst Request Rate 1 Limit Exceed

Type: number

Format: counter

rate2_limit_exceed

Description Dst Request Rate 2 Limit Exceed

Type: number

Format: counter

rate3_limit_exceed

Description Dst Request Rate 3 Limit Exceed

Type: number

Format: counter

read_start_line_error

Description Start Line Read Error

Type: number

Format: counter

request_method_ack

Description Request Method ACK

Type: number

Format: counter

request_method_bye

Description Request Method BYE

Type: number

Format: counter

request_method_cancel

Description Request Method CANCEL

Type: number

Format: counter

request_method_info

Description Request Method INFO

Type: number

Format: counter

request_method_invite

Description Request Method INVITE

Type: number

Format: counter

request_method_message

Description Request Method MESSAGE

Type: number

Format: counter

request_method_notify

Description Request Method NOTIFY

Type: number

Format: counter

request_method_options

Description Request Method OPTIONS

Type: number

Format: counter

request_method_prack

Description Request Method PRACK

Type: number

Format: counter

request_method_publish

Description Request Method PUBLISH

Type: number

Format: counter

request_method_refer

Description Request Method REFER

Type: number

Format: counter

request_method_register

Description Request Method REGISTER

Type: number

Format: counter

request_method_subscribe

Description Request Method SUBSCRIBE

Type: number

Format: counter

request_method_unknown

Description Unknown Request Method

Type: number

Format: counter

request_method_update

Description Request Method UPDATE

Type: number

Format: counter

request_unknown_version

Description Unknown Request Version

Type: number

Format: counter

response_1xx

Description Response Status Code 1xx

Type: number

Format: counter

response_2xx

Description Response Status Code 2xx

Type: number

Format: counter

response_3xx

Description Response Status Code 3xx

Type: number

Format: counter

response_4xx

Description Response Status Code 4xx

Type: number

Format: counter

response_5xx

Description Response Status Code 5xx

Type: number

Format: counter

response_6xx

Description Response Status Code 6xx

Type: number

Format: counter

response_unknown

Description Unknown Response Status Code

Type: number

Format: counter

response_unknown_version

Description Unknown Response Version

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

spoof_detect_fail

Description UDP Retry Timeout

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action Whitelist

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_ntp_monlist_req

Description Src NTP Monlist Request

Type: number

Format: counter

src_ntp_monlist_resp

Description Src NTP Monlist Response

Type: number

Format: counter

src_payload_too_big

Description Src UDP Payload Too Large

Type: number

Format: counter

src_payload_too_small

Description Src UDP Payload Too Small

Type: number

Format: counter

src_rate1_limit_exceed

Description Src Request Rate 1 Limit Exceed

Type: number

Format: counter

src_rate2_limit_exceed

Description Src Request Rate 2 Limit Exceed

Type: number

Format: counter

src_rate3_limit_exceed

Description Src Request Rate 3 Limit Exceed

Type: number

Format: counter

src_udp_auth

Description Src Auth UDP Init

Type: number

Format: counter

src_udp_auth_drop

Description Src UDP Auth Dropped

Type: number

Format: counter

src_udp_auth_fail

Description Src Auth UDP Failed

Type: number

Format: counter

src_udp_auth_timeout

Description Src UDP Retry Timeout

Type: number

Format: counter

src_udp_retry_gap_drop

Description Src UDP Retry-Gap Dropped

Type: number

Format: counter

src_udp_retry_init

Description Src UDP Retry Init

Type: number

Format: counter

src_udp_retry_pass

Description Src UDP Retry Passed

Type: number

Format: counter

src_well_known_port

Description Src UDP SrcPort Wellknown

Type: number

Format: counter

token_authentication_curr_salt_matched

Description Token Authentication Current Salt Matched

Type: number

Format: counter

token_authentication_invalid

Description Token Authentication Invalid Packets

Type: number

Format: counter

token_authentication_mismatched

Description Token Authentication Mismatched Packets

Type: number

Format: counter

token_authentication_prev_salt_matched

Description Token Authentication Previous Salt Matched

Type: number

Format: counter

token_authentication_session_created

Description Token Authentication Session Created

Type: number

Format: counter

token_authentication_session_created_fail

Description Token Authentication Session Created Fail

Type: number

Format: counter

too_many_header

Description Max Header Count Exceed

Type: number

Format: counter

udp_auth

Description Auth UDP Init

Type: number

Format: counter

udp_auth_drop

Description UDP Auth Dropped

Type: number

Format: counter

udp_auth_fail

Description Auth UDP Failed

Type: number

Format: counter

udp_auth_pass

Description Auth UDP Passed

Type: number

Format: counter

udp_auth_retry_fail

Description Auth UDP Retry Failed

Type: number

Format: counter

udp_auth_retry_gap_drop

Description Auth UDP Retry-Gap Dropped

Type: number

Format: counter

udp_retry_gap_drop

Description UDP Retry-Gap Dropped

Type: number

Format: counter

udp_retry_init

Description UDP Retry Init

Type: number

Format: counter

udp_retry_pass

Description UDP Retry Passed

Type: number

Format: counter

wellknown_sport_drop

Description UDP SrcPort Wellknown

Type: number

Format: counter

2.33.452 ddos sip-udp-zone-port stats

Statistics for the object sip-udp-zone-port

sip-udp-zone-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*sip-udp-zone-port-list*
Collection URI	/axapi/v3/ddos/sip-udp-zone-port
Element Name	sip-udp-zone-port
Element URI	/axapi/v3/ddos/sip-udp-zone-port/stats
Element Attributes	sip-udp-zone-port_attributes
Partition Visibility	None
Schema	`sip-udp-zone-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/sip-udp-zone-port

sip-udp-zone-port attributes

Create List

POST

/axapi/v3/ddos/sip-udp-zone-port

sip-udp-zone-port attributes

Get Object

GET

/axapi/v3/ddos/sip-udp-zone-port/stats

sip-udp-zone-port attributes

Get List

GET

/axapi/v3/ddos/sip-udp-zone-port

sip-udp-zone-port-list

Modify Object

POST

/axapi/v3/ddos/sip-udp-zone-port/stats

sip-udp-zone-port attributes

Replace Object

PUT

/axapi/v3/ddos/sip-udp-zone-port/stats

sip-udp-zone-port attributes

Replace List

PUT

/axapi/v3/ddos/sip-udp-zone-port

sip-udp-zone-port-list

Delete Object

DELETE

/axapi/v3/ddos/sip-udp-zone-port/stats

sip-udp-zone-port attributes

sip-udp-zone-port-list

sip-udp-zone-port-list is **JSON List** of *sip-udp-zone-port attributes*

sip-udp-zone-port-list : [

{ *sip-udp-zone-port attributes* },

{ *sip-udp-zone-port attributes* },

…

]

sip-udp-zone-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

all_src_session_reset

Description Session Reset for All Src Upon Level Escalation

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

body_too_big

Description Body Too Big

Type: number

Format: counter

clear_session_upon_deescalation

Description Clear Session Upon De-escalation to Level 0

Type: number

Format: counter

concatenate_msg

Description Concatenate Message

Type: number

Format: counter

conn_prate_excd

Description UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

current_es_level

Description Current Escalation Level

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

dst_hw_drop_inserted

Description Dst Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_removed

Description Dst Hardware Drop Rules Removed

Type: number

Format: counter

dst_udp_retry_timeout_blacklist

Description UDP Retry Timeout Blacklisted

Type: number

Format: counter

dynamic_count_warn

Description dynamic-entry-count warning send

Type: number

Format: counter

ew_inbound_port_byte_drop

Description East-West Inbound Bytes Dropped

Type: number

Format: counter

ew_inbound_port_byte_rcv

Description East-West Inbound Bytes Recevied

Type: number

Format: counter

ew_inbound_port_byte_sent

Description East-West Inbound Bytes Forwarded

Type: number

Format: counter

ew_inbound_port_drop

Description East-West Inbound Packets Dropped

Type: number

Format: counter

ew_inbound_port_rcv

Description East-West Inbound Packets Received

Type: number

Format: counter

ew_inbound_port_sent

Description East-West Inbound Packets Forwarded

Type: number

Format: counter

ew_outbound_port_byte_drop

Description East-West Outbound Bytes Forwarded

Type: number

Format: counter

ew_outbound_port_byte_rcv

Description East-West Outbound Bytes Recevied

Type: number

Format: counter

ew_outbound_port_byte_sent

Description East-West Outbound Bytes Dropped

Type: number

Format: counter

ew_outbound_port_drop

Description East-West Outbound Packets Dropped

Type: number

Format: counter

ew_outbound_port_rcv

Description East-West Outbound Packets Received

Type: number

Format: counter

ew_outbound_port_sent

Description East-West Outbound Packets Forwarded

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action Whitelist

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

get_content_fail_error

Description Get Content Fail

Type: number

Format: counter

header_filter_action_blacklist

Description Header Filter Action Blacklist

Type: number

Format: counter

header_filter_action_default_pass

Description Header Filter Action Default Pass

Type: number

Format: counter

header_filter_action_drop

Description Header Filter Action Drop

Type: number

Format: counter

header_filter_action_whitelist

Description Header Filter Action Whitelist

Type: number

Format: counter

header_filter_filter1_match

Description Header Filter 1 Match

Type: number

Format: counter

header_filter_filter2_match

Description Header Filter 2 Match

Type: number

Format: counter

header_filter_filter3_match

Description Header Filter 3 Match

Type: number

Format: counter

header_filter_filter4_match

Description Header Filter 4 Match

Type: number

Format: counter

header_filter_filter5_match

Description Header Filter 5 Match

Type: number

Format: counter

header_filter_match

Description Header Filter Match

Type: number

Format: counter

header_filter_none_match

Description None Header Filter Match

Type: number

Format: counter

header_filter_not_match

Description Header Filter Not Match

Type: number

Format: counter

header_name_too_long

Description Max Header Name Length Exceed

Type: number

Format: counter

invalid_header

Description Invalid Header

Type: number

Format: counter

invalid_start_line_error

Description Invalid Start Line

Type: number

Format: counter

ip_filtering_bl

Description IP Filtering Policy: Blacklisted

Type: number

Format: counter

ip_filtering_drop

Description IP Filtering Policy: Dropped

Type: number

Format: counter

keep_alive_msg

Description KeepAlive Message

Type: number

Format: counter

line_mem_allocated

Description Line Memory Allocated

Type: number

Format: counter

line_mem_freed

Description Line Memory Freed

Type: number

Format: counter

line_too_long

Description Line Too Long

Type: number

Format: counter

malform_request

Description Malformed Request

Type: number

Format: counter

max_call_id_len_exceed

Description Max Call ID Length Exceed

Type: number

Format: counter

max_header_value_len_exceed

Description Max Header Value Length Exceed

Type: number

Format: counter

max_sdp_len_exceed

Description Max SDP Length Exceed

Type: number

Format: counter

max_uri_len_exceed

Description Max URI Length Exceed

Type: number

Format: counter

mem_alloc_fail_error

Description Memory Allocate Fail

Type: number

Format: counter

no_policy_class_list_match

Description No Policy Class-list Match

Type: number

Format: counter

no_route_drop

Description No Route Dropped

Type: number

Format: counter

ntp_monlist_req

Description NTP Monlist Request

Type: number

Format: counter

ntp_monlist_resp

Description NTP Monlist Response

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

parse_header_fail_error

Description Header Parse Fail

Type: number

Format: counter

parse_start_line_error

Description Start Line Parse Error

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

payload_too_big

Description UDP Payload Too Large

Type: number

Format: counter

payload_too_small

Description UDP Payload Too Small

Type: number

Format: counter

policy_drop

Description Policy Drop

Type: number

Format: counter

policy_violation

Description Policy Violation

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_src_escalation

Description Src Escalation

Type: number

Format: counter

rate1_limit_exceed

Description Dst Request Rate 1 Limit Exceed

Type: number

Format: counter

rate2_limit_exceed

Description Dst Request Rate 2 Limit Exceed

Type: number

Format: counter

rate3_limit_exceed

Description Dst Request Rate 3 Limit Exceed

Type: number

Format: counter

read_start_line_error

Description Start Line Read Error

Type: number

Format: counter

request_method_ack

Description Request Method ACK

Type: number

Format: counter

request_method_bye

Description Request Method BYE

Type: number

Format: counter

request_method_cancel

Description Request Method CANCEL

Type: number

Format: counter

request_method_info

Description Request Method INFO

Type: number

Format: counter

request_method_invite

Description Request Method INVITE

Type: number

Format: counter

request_method_message

Description Request Method MESSAGE

Type: number

Format: counter

request_method_notify

Description Request Method NOTIFY

Type: number

Format: counter

request_method_options

Description Request Method OPTIONS

Type: number

Format: counter

request_method_prack

Description Request Method PRACK

Type: number

Format: counter

request_method_publish

Description Request Method PUBLISH

Type: number

Format: counter

request_method_refer

Description Request Method REFER

Type: number

Format: counter

request_method_register

Description Request Method REGISTER

Type: number

Format: counter

request_method_subscribe

Description Request Method SUBSCRIBE

Type: number

Format: counter

request_method_unknown

Description Unknown Request Method

Type: number

Format: counter

request_method_update

Description Request Method UPDATE

Type: number

Format: counter

request_unknown_version

Description Unknown Request Version

Type: number

Format: counter

response_1xx

Description Response Status Code 1xx

Type: number

Format: counter

response_2xx

Description Response Status Code 2xx

Type: number

Format: counter

response_3xx

Description Response Status Code 3xx

Type: number

Format: counter

response_4xx

Description Response Status Code 4xx

Type: number

Format: counter

response_5xx

Description Response Status Code 5xx

Type: number

Format: counter

response_6xx

Description Response Status Code 6xx

Type: number

Format: counter

response_unknown

Description Unknown Response Status Code

Type: number

Format: counter

response_unknown_version

Description Unknown Response Version

Type: number

Format: counter

same_sport_dport_drop

Description Same Source and Destination Port Drop

Type: number

Format: counter

secondary_port_conn_limm_exceed

Description Per Addr-Port Conn Limit Exceeded

Type: number

Format: counter

secondary_port_conn_rate_exceed

Description Per Addr-Port Conn Rate Exceeded

Type: number

Format: counter

secondary_port_hit

Description Per Addr-Port Hit

Type: number

Format: counter

secondary_port_kbit_rate_exceed

Description Per Addr-Port KiBit Rate Exceeded

Type: number

Format: counter

secondary_port_kbit_rate_exceed_pkt

Description Per Addr-Port KiBit Rate Exceeded Count

Type: number

Format: counter

secondary_port_pkt_rate_exceed

Description Per Addr-Port Packet Rate Exceeded

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

spoof_detect_fail

Description UDP Retry Timeout

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action Whitelist

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_hw_drop_inserted

Description Src Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_removed

Description Src Hardware Drop Rules Removed

Type: number

Format: counter

src_learn_overflow

Description Source Dynamic Entry Overflow

Type: number

Format: counter

src_ntp_monlist_req

Description Src NTP Monlist Request

Type: number

Format: counter

src_ntp_monlist_resp

Description Src NTP Monlist Response

Type: number

Format: counter

src_payload_too_big

Description Src UDP Payload Too Large

Type: number

Format: counter

src_payload_too_small

Description Src UDP Payload Too Small

Type: number

Format: counter

src_rate1_limit_exceed

Description Src Request Rate 1 Limit Exceed

Type: number

Format: counter

src_rate2_limit_exceed

Description Src Request Rate 2 Limit Exceed

Type: number

Format: counter

src_rate3_limit_exceed

Description Src Request Rate 3 Limit Exceed

Type: number

Format: counter

src_udp_auth

Description Src Auth UDP Init

Type: number

Format: counter

src_udp_auth_drop

Description Src UDP Auth Dropped

Type: number

Format: counter

src_udp_auth_fail

Description Src Auth UDP Failed

Type: number

Format: counter

src_udp_auth_timeout

Description Src UDP Retry Timeout

Type: number

Format: counter

src_udp_retry_gap_drop

Description Src UDP Retry-Gap Dropped

Type: number

Format: counter

src_udp_retry_init

Description Src UDP Retry Init

Type: number

Format: counter

src_udp_retry_pass

Description Src UDP Retry Passed

Type: number

Format: counter

src_well_known_port

Description Src UDP SrcPort Wellknown

Type: number

Format: counter

src_zone_service_entry_aged

Description SrcZoneService Entry Aged

Type: number

Format: counter

src_zone_service_entry_hit

Description SrcZoneService Entry Hit

Type: number

Format: counter

src_zone_service_entry_learned

Description SrcZoneService Entry Learned

Type: number

Format: counter

token_authentication_curr_salt_matched

Description Token Authentication Current Salt Matched

Type: number

Format: counter

token_authentication_invalid

Description Token Authentication Invalid Packets

Type: number

Format: counter

token_authentication_mismatched

Description Token Authentication Mismatched Packets

Type: number

Format: counter

token_authentication_prev_salt_matched

Description Token Authentication Previous Salt Matched

Type: number

Format: counter

token_authentication_session_created

Description Token Authentication Session Created

Type: number

Format: counter

token_authentication_session_created_fail

Description Token Authentication Session Created Fail

Type: number

Format: counter

too_many_header

Description Max Header Count Exceed

Type: number

Format: counter

udp_auth

Description Auth UDP Init

Type: number

Format: counter

udp_auth_drop

Description UDP Auth Dropped

Type: number

Format: counter

udp_auth_fail

Description Auth UDP Failed

Type: number

Format: counter

udp_auth_pass

Description Auth UDP Passed

Type: number

Format: counter

udp_auth_retry_fail

Description Auth UDP Retry Failed

Type: number

Format: counter

udp_auth_retry_gap_drop

Description Auth UDP Retry-Gap Dropped

Type: number

Format: counter

udp_retry_gap_drop

Description UDP Retry-Gap Dropped

Type: number

Format: counter

udp_retry_init

Description UDP Retry Init

Type: number

Format: counter

udp_retry_pass

Description UDP Retry Passed

Type: number

Format: counter

unauth_src_session_reset

Description Session Reset for Unauthenticated Src

Type: number

Format: counter

wellknown_sport_drop

Description UDP SrcPort Wellknown

Type: number

Format: counter

zone_src_udp_retry_timeout_blacklist

Description Src UDP Retry Timeout Blacklisted

Type: number

Format: counter

2.33.453 ddos src

Create Source ip limit entry

src Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	src
Element URI	/axapi/v3/ddos/src
Element Attributes	src_attributes
Partition Visibility	shared
Schema	`src schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/src

src_attributes

src attributes

default-list

Type: List

Reference Object: */axapi/v3/ddos/src/default/{default-address-type}*

dynamic-entries-resource-usage

Description: dynamic-entries-resource-usage is a **JSON Block**. Please see below for *dynamic-entries-resource-usage*

Type: Object

Reference Object: */axapi/v3/ddos/src/dynamic-entries-resource-usage*

dynamic-entry

Description: dynamic-entry is a **JSON Block**. Please see below for *dynamic-entry*

Type: Object

Reference Object: */axapi/v3/ddos/src/dynamic-entry*

dynamic-entry-overflow-policy-list

Type: List

Reference Object: */axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}*

entry-list

Type: List

Reference Object: */axapi/v3/ddos/src/entry/{src-entry-name}*

geo-location-list

Type: List

Reference Object: */axapi/v3/ddos/src/geo-location/{geolocation-name}*

default-list

Specification	Value
Type	*list*
Block object keys	

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

app-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/default/{default-address-type}/app-type/{protocol}*

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-address-type

Description 'ip': ip; 'ipv6': ipv6;

Type: string

Supported Values: ip, ipv6

disable

Description Disable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *default-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/default/{default-address-type}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic src entry

Type: number

Range: 0-2147483647

template

Description: template is a **JSON Block**. Please see below for *default-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

default-list_app-type-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *default-list_app-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

default-list_app-type-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

default-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

default-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *default-list_l4-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

default-list_l4-type-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

default-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entries-resource-usage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list

Specification	Value
Type	*list*
Block object keys	

app-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/entry/{src-entry-name}/app-type/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

description

Description Description for this Source Entry

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *entry-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

hw-blacklist-blocking

Description: hw-blacklist-blocking is a **JSON Block**. Please see below for *entry-list_hw-blacklist-blocking*

Type: Object

Reference Object: */axapi/v3/ddos/src/entry/{src-entry-name}/hw-blacklist-blocking*

ip-addr

Description

Type: string

Format: ipv4-address

ipv6-addr

Description

Type: string

Format: ipv6-address

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/entry/{src-entry-name}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-entry-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

subnet-ip-addr

Description IP Subnet

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description IPV6 Subnet

Type: string

Format: ipv6-address-plen

template

Description: template is a **JSON Block**. Please see below for *entry-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_app-type-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *entry-list_app-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_app-type-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_hw-blacklist-blocking

Specification	Value
Type	*object*

src-enable

Description Enable Src side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'permit': Whitelist incoming packets for protocol; 'deny': Blacklist incoming packets for protocol;

Type: string

Supported Values: permit, deny

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *entry-list_l4-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

entry-list_l4-type-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

entry-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

geo-location-list

Specification	Value
Type	*list*
Block object keys	

app-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/geo-location/{geolocation-name}/app-type/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

description

Description Description for this Geolocation Entry

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

geolocation-name

Description Geolocation Name

Type: string

Format: string-rlx

Maximum Length: 15 characters

Maximum Length: 1 characters

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/geo-location/{geolocation-name}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *geo-location-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

geo-location-list_app-type-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *geo-location-list_app-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

geo-location-list_app-type-list_template

Specification	Value
Type	*object*

dns

Description DDOS DNS template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS HTTP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

geo-location-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'permit': Whitelist incoming packets for protocol; 'deny': Blacklist incoming packets for protocol;

Type: string

Supported Values: permit, deny

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *geo-location-list_l4-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

geo-location-list_l4-type-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS ICMP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

geo-location-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list

Specification	Value
Type	*list*
Block object keys	

app-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/app-type/{protocol}*

default-address-type

Description 'ip': ip; 'ipv6': ipv6;

Type: string

Supported Values: ip, ipv6

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_app-type-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_app-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_app-type-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *dynamic-entry-overflow-policy-list_l4-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_l4-type-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dynamic-entry-overflow-policy-list_exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

with-sflow-sample

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dynamic-entry

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.454 ddos src-based-policy

Configure src-based policy

src-based-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*src-based-policy-list*
Collection URI	/axapi/v3/ddos/src-based-policy
Element Name	src-based-policy
Element URI	/axapi/v3/ddos/src-based-policy/{name}
Element Attributes	src-based-policy_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/src-based-policy/{name}/oper
Schema	`src-based-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src-based-policy

src-based-policy attributes

```
POST /axapi/v3/ddos/src-based-policy/
Payload:
{
    "src-based-policy": {
        "name": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/src-based-policy

src-based-policy attributes

Get Object

GET

/axapi/v3/ddos/src-based-policy/{name}

src-based-policy attributes

```
GET /axapi/v3/ddos/src-based-policy/a
Reponse:
{
    "src-based-policy": {
        "name": "a",
        "uuid": "dd775d72-0881-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/src-based-policy/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/src-based-policy

src-based-policy-list

Modify Object

POST

/axapi/v3/ddos/src-based-policy/{name}

src-based-policy attributes

Replace Object

PUT

/axapi/v3/ddos/src-based-policy/{name}

src-based-policy attributes

```
PUT /axapi/v3/ddos/src-based-policy/a
Payload:
{
    "src-based-policy": {
        "name": "a"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/src-based-policy

src-based-policy-list

Delete Object

DELETE

/axapi/v3/ddos/src-based-policy/{name}

src-based-policy attributes

```
DELETE /axapi/v3/ddos/src-based-policy/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

src-based-policy-list

src-based-policy-list is **JSON List** of *src-based-policy attributes*

src-based-policy-list : [

{ *src-based-policy attributes* },

{ *src-based-policy attributes* },

...

]

src-based-policy attributes

name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

policy-class-list-list

Type: List

Reference Object: */axapi/v3/ddos/src-based-policy/{name}/policy-class-list/{class-list-name}*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

policy-class-list-list

Specification	Value
Type	*list*
Block object keys	

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.455 ddos src-based-policy oper

Operational Status for the object src-based-policy

src-based-policy Specification

Parameter	Value
Type	*Collection*
Collection Name	*src-based-policy-list*
Collection URI	/axapi/v3/ddos/src-based-policy/{name}
Element Name	src-based-policy
Element URI	/axapi/v3/ddos/src-based-policy/{name}/oper
Element Attributes	src-based-policy_attributes
Partition Visibility	None
Schema	`src-based-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src-based-policy/{name}

src-based-policy attributes

Create List

POST

/axapi/v3/ddos/src-based-policy/{name}

src-based-policy attributes

Get Object

GET

/axapi/v3/ddos/src-based-policy/{name}/oper

src-based-policy attributes

Get List

GET

/axapi/v3/ddos/src-based-policy/{name}

src-based-policy-list

Modify Object

POST

/axapi/v3/ddos/src-based-policy/{name}/oper

src-based-policy attributes

Replace Object

PUT

/axapi/v3/ddos/src-based-policy/{name}/oper

src-based-policy attributes

Replace List

PUT

/axapi/v3/ddos/src-based-policy/{name}

src-based-policy-list

Delete Object

DELETE

/axapi/v3/ddos/src-based-policy/{name}/oper

src-based-policy attributes

src-based-policy-list

src-based-policy-list is **JSON List** of *src-based-policy attributes*

src-based-policy-list : [

{ *src-based-policy attributes* },

{ *src-based-policy attributes* },

...

]

src-based-policy attributes

name

Description Specify name of the policy

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

class-list-entries

Type: List

geoloc-ipv4-total-single-ip

Description

Type: number

geoloc-ipv4-total-subnet

Description

Type: number

geoloc-ipv6-total-single-ip

Description

Type: number

geoloc-ipv6-total-subnet

Description

Type: number

ipv4-total-single-ip

Description

Type: number

ipv4-total-subnet

Description

Type: number

ipv6-total-single-ip

Description

Type: number

ipv6-total-subnet

Description

Type: number

resource-usage

Description

Type: boolean

Supported Values: true, false, 1, 0

src-based-policy-name

Description

Type: string

Format: string-rlx

oper_class-list-entries

Specification	Value
Type	*list*
Block object keys	

address

Description

Type: string

class-list-name

Description

Type: string

geo-location-name

Description

Type: string

2.33.456 ddos src-based-policy policy-class-list

Configure class-list

policy-class-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*class-list-name*
Collection Name	*policy-class-list-list*
Collection URI	/axapi/v3/ddos/src-based-policy/{name}/policy-class-list
Element Name	policy-class-list
Element URI	/axapi/v3/ddos/src-based-policy/{name}/policy-class-list/{class-list-name}
Element Attributes	policy-class-list_attributes
Partition Visibility	shared
Schema	`policy-class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src-based-policy/{name}/policy-class-list

policy-class-list attributes

Create List

POST

/axapi/v3/ddos/src-based-policy/{name}/policy-class-list

policy-class-list attributes

Get Object

GET

/axapi/v3/ddos/src-based-policy/{name}/policy-class-list/{class-list-name}

policy-class-list attributes

Get List

GET

/axapi/v3/ddos/src-based-policy/{name}/policy-class-list

policy-class-list-list

Modify Object

POST

/axapi/v3/ddos/src-based-policy/{name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace Object

PUT

/axapi/v3/ddos/src-based-policy/{name}/policy-class-list/{class-list-name}

policy-class-list attributes

Replace List

PUT

/axapi/v3/ddos/src-based-policy/{name}/policy-class-list

policy-class-list-list

Delete Object

DELETE

/axapi/v3/ddos/src-based-policy/{name}/policy-class-list/{class-list-name}

policy-class-list attributes

policy-class-list-list

policy-class-list-list is **JSON List** of *policy-class-list attributes*

policy-class-list-list : [

{ *policy-class-list attributes* },

{ *policy-class-list attributes* },

...

]

policy-class-list attributes

class-list-name

Description Class-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.457 ddos src default

Configure IP/IPv6 default entry

default Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*default-address-type*
Collection Name	*default-list*
Collection URI	/axapi/v3/ddos/src/default
Element Name	default
Element URI	/axapi/v3/ddos/src/default/{default-address-type}
Element Attributes	default_attributes
Partition Visibility	shared
Schema	`default schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/default

default attributes

```
POST /axapi/v3/ddos/src/default/
Payload:
{
    "default": {
        "default-address-type": "ip",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/src/default

default attributes

Get Object

GET

/axapi/v3/ddos/src/default/{default-address-type}

default attributes

```
GET /axapi/v3/ddos/src/default/ip
Reponse:
{
```

(continues on next page)

(continued from previous page)

```
    "default": {
        "default-address-type": "ip",
        "disable": 0,
        "age": 5,
        "exceed-log-cfg": {
            "log-enable": 0
        },
        "log-periodic": 0,
        "uuid": "03c57248-0882-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/src/default/ip"
    }
}
```

Get List

GET

/axapi/v3/ddos/src/default

default-list

Modify Object

POST

/axapi/v3/ddos/src/default/{default-address-type}

default attributes

Replace Object

PUT

/axapi/v3/ddos/src/default/{default-address-type}

default attributes

```
PUT /axapi/v3/ddos/src/default/ip
Payload:
{
    "default": {
        "default-address-type": "ip",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/src/default

default-list

Delete Object

DELETE

/axapi/v3/ddos/src/default/{default-address-type}

default attributes

```
DELETE /axapi/v3/ddos/src/default/ip
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

default-list

default-list is **JSON List** of *default attributes*

default-list : [

{ *default attributes* },

{ *default attributes* },

...

]

default attributes

age

Description Idle age for ip entry

Type: number

Range: 2-1023

Default: 5

app-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/default/{default-address-type}/app-type/{protocol}*

apply-policy-on-overflow

Description Enable this flag to apply overflow policy when dynamic entry count overflows

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

default-address-type

Description 'ip': ip; 'ipv6': ipv6;

Type: string

Supported Values: ip, ipv6

disable

Description Disable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/default/{default-address-type}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-dynamic-entry-count

Description Maximum count for dynamic src entry

Type: number

Range: 0-2147483647

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *app-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *l4-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.458 ddos src default app-type

DDOS APP type

app-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*app-type-list*
Collection URI	/axapi/v3/ddos/src/default/{default-address-type}/app-type
Element Name	app-type
Element URI	/axapi/v3/ddos/src/default/{default-address-type}/app-type/{protocol}
Element Attributes	app-type_attributes
Partition Visibility	shared
Schema	`app-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/default/{default-address-type}/app-type

app-type attributes

Create List

POST

/axapi/v3/ddos/src/default/{default-address-type}/app-type

app-type attributes

Get Object

GET

/axapi/v3/ddos/src/default/{default-address-type}/app-type/{protocol}

app-type attributes

Get List

GET

/axapi/v3/ddos/src/default/{default-address-type}/app-type

app-type-list

Modify Object

POST

/axapi/v3/ddos/src/default/{default-address-type}/app-type/{protocol}

app-type attributes

Replace Object

PUT

/axapi/v3/ddos/src/default/{default-address-type}/app-type/{protocol}

app-type attributes

Replace List

PUT

/axapi/v3/ddos/src/default/{default-address-type}/app-type

app-type-list

Delete Object

DELETE

/axapi/v3/ddos/src/default/{default-address-type}/app-type/{protocol}

app-type attributes

app-type-list

app-type-list is **JSON List** of *app-type attributes*

app-type-list : [

{ *app-type attributes* },

{ *app-type attributes* },

...

]

app-type attributes

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.459 ddos src default l4-type

DDOS L4 type

l4-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-list*
Collection URI	/axapi/v3/ddos/src/default/{default-address-type}/l4-type
Element Name	l4-type
Element URI	/axapi/v3/ddos/src/default/{default-address-type}/l4-type/{protocol}
Element Attributes	l4-type_attributes
Partition Visibility	shared
Schema	`l4-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/default/{default-address-type}/l4-type

l4-type attributes

Create List

POST

/axapi/v3/ddos/src/default/{default-address-type}/l4-type

l4-type attributes

Get Object

GET

/axapi/v3/ddos/src/default/{default-address-type}/l4-type/{protocol}

l4-type attributes

Get List

GET

/axapi/v3/ddos/src/default/{default-address-type}/l4-type

l4-type-list

Modify Object

POST

/axapi/v3/ddos/src/default/{default-address-type}/l4-type/{protocol}

l4-type attributes

Replace Object

PUT

/axapi/v3/ddos/src/default/{default-address-type}/l4-type/{protocol}

l4-type attributes

Replace List

PUT

/axapi/v3/ddos/src/default/{default-address-type}/l4-type

l4-type-list

Delete Object

DELETE

/axapi/v3/ddos/src/default/{default-address-type}/l4-type/{protocol}

l4-type attributes

l4-type-list

l4-type-list is **JSON List** of *l4-type attributes*

l4-type-list : [

{ *l4-type attributes* },

{ *l4-type attributes* },

...

]

l4-type attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.460 ddos src dynamic-entries-resource-usage

Src dynamic entry all-entries resource usage

dynamic-entries-resource-usage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dynamic-entries-resource-usage
Element URI	/axapi/v3/ddos/src/dynamic-entries-resource-usage
Element Attributes	dynamic-entries-resource-usage_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/src/dynamic-entries-resource-usage/oper
Schema	`dynamic-entries-resource-usage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/dynamic-entries-resource-usage

dynamic-entries-resource-usage attributes

Get Object

GET

/axapi/v3/ddos/src/dynamic-entries-resource-usage

dynamic-entries-resource-usage attributes

Modify Object

POST

/axapi/v3/ddos/src/dynamic-entries-resource-usage

dynamic-entries-resource-usage attributes

Replace Object

PUT

/axapi/v3/ddos/src/dynamic-entries-resource-usage

dynamic-entries-resource-usage attributes

Delete Object

DELETE

/axapi/v3/ddos/src/dynamic-entries-resource-usage

dynamic-entries-resource-usage attributes

dynamic-entries-resource-usage attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.461 ddos src dynamic-entries-resource-usage oper

Operational Status for the object dynamic-entries-resource-usage

dynamic-entries-resource-usage Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dynamic-entries-resource-usage
Element URI	/axapi/v3/ddos/src/dynamic-entries-resource-usage/oper
Element Attributes	dynamic-entries-resource-usage_attributes
Partition Visibility	None
Schema	`dynamic-entries-resource-usage schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/dynamic-entries-resource-usage/oper

dynamic-entries-resource-usage attributes

Get Object

GET

/axapi/v3/ddos/src/dynamic-entries-resource-usage/oper

dynamic-entries-resource-usage attributes

Modify Object

POST

/axapi/v3/ddos/src/dynamic-entries-resource-usage/oper

dynamic-entries-resource-usage attributes

Replace Object

PUT

/axapi/v3/ddos/src/dynamic-entries-resource-usage/oper

dynamic-entries-resource-usage attributes

Delete Object

DELETE

/axapi/v3/ddos/src/dynamic-entries-resource-usage/oper

dynamic-entries-resource-usage attributes

dynamic-entries-resource-usage attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

conn_total_ip

Description

Type: number

conn_total_ipv6

Description

Type: number

src_entry_ip_allocated

Description

Type: number

src_entry_ip_limit

Description

Type: number

src_entry_ip_remaining

Description

Type: string

src_entry_ipv6_allocated

Description

Type: number

src_entry_ipv6_limit

Description

Type: number

src_entry_ipv6_remaining

Description

Type: string

2.33.462 ddos src dynamic-entry oper

Operational Status for the object dynamic-entry

dynamic-entry Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dynamic-entry
Element URI	/axapi/v3/ddos/src/dynamic-entry/oper
Element Attributes	dynamic-entry_attributes
Partition Visibility	None
Schema	`dynamic-entry schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/dynamic-entry/oper

dynamic-entry attributes

Get Object

GET

/axapi/v3/ddos/src/dynamic-entry/oper

dynamic-entry attributes

Modify Object

POST

/axapi/v3/ddos/src/dynamic-entry/oper

dynamic-entry attributes

Replace Object

PUT

/axapi/v3/ddos/src/dynamic-entry/oper

dynamic-entry attributes

Delete Object

DELETE

/axapi/v3/ddos/src/dynamic-entry/oper

dynamic-entry attributes

dynamic-entry attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

all-l4-types

Description

Type: boolean

Supported Values: true, false, 1, 0

app-type

Description

Type: string

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: boolean

Supported Values: true, false, 1, 0

ipv6

Description

Type: string

Format: ipv6-address

l4-ext-rate

Description

Type: string

l4-type-str

Description

Type: string

max-count

Description

Type: number

overflow-policy

Description

Type: string

service-displayed-count

Description

Type: number

subnet-ip-addr

Description

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description

Type: string

Format: ipv6-address-plen

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

2.33.463 ddos src dynamic-entry-overflow-policy

Configure IP/IPv6 Policy Used When Src Dynamic Entry Count Overflows

dynamic-entry-overflow-policy Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*default-address-type*
Collection Name	*dynamic-entry-overflow-policy-list*
Collection URI	/axapi/v3/ddos/src/dynamic-entry-overflow-policy
Element Name	dynamic-entry-overflow-policy
Element URI	/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}
Element Attributes	dynamic-entry-overflow-policy_attributes
Partition Visibility	shared
Schema	`dynamic-entry-overflow-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Create List

POST

/axapi/v3/ddos/src/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy attributes

Get Object

GET

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}

dynamic-entry-overflow-policy attributes

Get List

GET

/axapi/v3/ddos/src/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Modify Object

POST

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}

dynamic-entry-overflow-policy attributes

Replace Object

PUT

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}

dynamic-entry-overflow-policy attributes

Replace List

PUT

/axapi/v3/ddos/src/dynamic-entry-overflow-policy

dynamic-entry-overflow-policy-list

Delete Object

DELETE

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}

dynamic-entry-overflow-policy attributes

dynamic-entry-overflow-policy-list

dynamic-entry-overflow-policy-list is **JSON List** of *dynamic-entry-overflow-policy attributes*

```
dynamic-entry-overflow-policy-list : [
        { dynamic-entry-overflow-policy attributes },
        { dynamic-entry-overflow-policy attributes },
        ...
    ]
```

dynamic-entry-overflow-policy attributes

app-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/app-type/{protocol}*

default-address-type

Description 'ip': ip; 'ipv6': ipv6;

Type: string

Supported Values: ip, ipv6

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *app-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

l4-type-list

Specification	Value
Type	*list*
Block object keys	

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *l4-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

with-sflow-sample

Description Turn on sflow sample with log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.464 ddos src dynamic-entry-overflow-policy app-type

DDOS APP type

app-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*app-type-list*
Collection URI	/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/app-type
Element Name	app-type
Element URI	/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/app-type/{protocol}
Element Attributes	app-type_attributes
Partition Visibility	shared
Schema	`app-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/app-type

app-type attributes

Create List

POST

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/app-type

app-type attributes

Get Object

GET

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/app-type/{protocol}

app-type attributes

Get List

GET

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/app-type

app-type-list

Modify Object

POST

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/app-type/{protocol}

app-type attributes

Replace Object

PUT

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/app-type/{protocol}

app-type attributes

Replace List

PUT

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/app-type

app-type-list

Delete Object

DELETE

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/app-type/{protocol}

app-type attributes

app-type-list

app-type-list is **JSON List** of *app-type attributes*

app-type-list : [

{ *app-type attributes* },

{ *app-type attributes* },

...

]

app-type attributes

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.465 ddos src dynamic-entry-overflow-policy l4-type

DDOS L4 type

l4-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-list*
Collection URI	/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/l4-type
Element Name	l4-type
Element URI	/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}
Element Attributes	l4-type_attributes
Partition Visibility	shared
Schema	`l4-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/l4-type

l4-type attributes

Create List

POST

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/l4-type

l4-type attributes

Get Object

GET

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}

l4-type attributes

Get List

GET

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/l4-type

l4-type-list

Modify Object

POST

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}

l4-type attributes

Replace Object

PUT

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}

l4-type attributes

Replace List

PUT

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/l4-type

l4-type-list

Delete Object

DELETE

/axapi/v3/ddos/src/dynamic-entry-overflow-policy/{default-address-type}/l4-type/{protocol}

l4-type attributes

l4-type-list

l4-type-list is **JSON List** of *l4-type attributes*

l4-type-list : [

{ *l4-type attributes* },

{ *l4-type attributes* },

...

]

l4-type attributes

deny

Description Blacklist and Drop all incoming packets for protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.466 ddos src entry

Configure IP/IPv6 static Entry

entry Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*src-entry-name*
Collection Name	*entry-list*
Collection URI	/axapi/v3/ddos/src/entry
Element Name	entry
Element URI	/axapi/v3/ddos/src/entry/{src-entry-name}
Element Attributes	entry_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/src/entry/{src-entry-name}/oper
Schema	`entry schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/entry

entry attributes

```
POST /axapi/v3/ddos/src/entry/
Payload:
{
    "entry": {
        "src-entry-name": "a",
        "ipv6-addr": "2003::1"
    }
}
```

Create List

POST

/axapi/v3/ddos/src/entry

entry attributes

Get Object

GET

/axapi/v3/ddos/src/entry/{src-entry-name}

entry attributes

```
GET /axapi/v3/ddos/src/entry/a
Reponse:
{
    "entry": {
        "src-entry-name": "a",
        "ipv6-addr": "2003::1",
        "bypass": 0,
        "exceed-log-cfg": {
            "log-enable": 0
        },
        "log-periodic": 0,
        "uuid": "cd0cafcc-0882-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/src/entry/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/src/entry

entry-list

Modify Object

POST

/axapi/v3/ddos/src/entry/{src-entry-name}

entry attributes

Replace Object

PUT

/axapi/v3/ddos/src/entry/{src-entry-name}

entry attributes

```
PUT /axapi/v3/ddos/src/entry/a
Payload:
{
    "entry": {
        "src-entry-name": "a",
        "ipv6-addr": "2003::1"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/src/entry

entry-list

Delete Object

DELETE

/axapi/v3/ddos/src/entry/{src-entry-name}

entry attributes

```
DELETE /axapi/v3/ddos/src/entry/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

entry-list

entry-list is **JSON List** of *entry attributes*

entry-list : [

{ *entry attributes* },

{ *entry attributes* },

...

]

entry attributes

app-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/entry/{src-entry-name}/app-type/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

description

Description Description for this Source Entry

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

exceed-log-cfg

Description: exceed-log-cfg is a **JSON Block**. Please see below for *exceed-log-cfg*

Type: Object

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

hw-blacklist-blocking

Description: hw-blacklist-blocking is a **JSON Block**. Please see below for *hw-blacklist-blocking*

Type: Object

Reference Object: */axapi/v3/ddos/src/entry/{src-entry-name}/hw-blacklist-blocking*

ip-addr

Description

Type: string

Format: ipv4-address

ipv6-addr

Description

Type: string

Format: ipv6-address

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/entry/{src-entry-name}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-entry-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

subnet-ip-addr

Description IP Subnet

Type: string

Format: ipv4-cidr

subnet-ipv6-addr

Description IPV6 Subnet

Type: string

Format: ipv6-address-plen

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *app-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-list_template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

hw-blacklist-blocking

Specification	Value
Type	*object*

src-enable

Description Enable Src side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'permit': Whitelist incoming packets for protocol; 'deny': Blacklist incoming packets for protocol;

Type: string

Supported Values: permit, deny

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *l4-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

exceed-log-cfg

Specification	Value
Type	*object*

log-enable

Description Enable logging of limit exceed drop's

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.467 ddos src entry app-type

DDOS APP type

app-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*app-type-list*
Collection URI	/axapi/v3/ddos/src/entry/{src-entry-name}/app-type
Element Name	app-type
Element URI	/axapi/v3/ddos/src/entry/{src-entry-name}/app-type/{protocol}
Element Attributes	app-type_attributes
Partition Visibility	shared
Schema	`app-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/entry/{src-entry-name}/app-type

app-type attributes

Create List

POST

/axapi/v3/ddos/src/entry/{src-entry-name}/app-type

app-type attributes

Get Object

GET

/axapi/v3/ddos/src/entry/{src-entry-name}/app-type/{protocol}

app-type attributes

Get List

GET

/axapi/v3/ddos/src/entry/{src-entry-name}/app-type

app-type-list

Modify Object

POST

/axapi/v3/ddos/src/entry/{src-entry-name}/app-type/{protocol}

app-type attributes

Replace Object

PUT

/axapi/v3/ddos/src/entry/{src-entry-name}/app-type/{protocol}

app-type attributes

Replace List

PUT

/axapi/v3/ddos/src/entry/{src-entry-name}/app-type

app-type-list

Delete Object

DELETE

/axapi/v3/ddos/src/entry/{src-entry-name}/app-type/{protocol}

app-type attributes

app-type-list

app-type-list is **JSON List** of *app-type attributes*

app-type-list : [

{ *app-type attributes* },

{ *app-type attributes* },

...

]

app-type attributes

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS dns template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS http template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.468 ddos src entry hw-blacklist-blocking

Hardware blacklist blocking over threshold

hw-blacklist-blocking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	hw-blacklist-blocking
Element URI	/axapi/v3/ddos/src/entry/{src-entry-name}/hw-blacklist-blocking
Element Attributes	hw-blacklist-blocking_attributes
Partition Visibility	shared
Schema	`hw-blacklist-blocking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/entry/{src-entry-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

Get Object

GET

/axapi/v3/ddos/src/entry/{src-entry-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

Modify Object

POST

/axapi/v3/ddos/src/entry/{src-entry-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

Replace Object

PUT

/axapi/v3/ddos/src/entry/{src-entry-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

Delete Object

DELETE

/axapi/v3/ddos/src/entry/{src-entry-name}/hw-blacklist-blocking

hw-blacklist-blocking attributes

hw-blacklist-blocking attributes

src-enable

Description Enable Src side hardware blocking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.469 ddos src entry l4-type

DDOS L4 type

l4-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-list*
Collection URI	/axapi/v3/ddos/src/entry/{src-entry-name}/l4-type
Element Name	l4-type
Element URI	/axapi/v3/ddos/src/entry/{src-entry-name}/l4-type/{protocol}
Element Attributes	l4-type_attributes
Partition Visibility	shared
Schema	`l4-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/entry/{src-entry-name}/l4-type

l4-type attributes

Create List

POST

/axapi/v3/ddos/src/entry/{src-entry-name}/l4-type

l4-type attributes

Get Object

GET

/axapi/v3/ddos/src/entry/{src-entry-name}/l4-type/{protocol}

l4-type attributes

Get List

GET

/axapi/v3/ddos/src/entry/{src-entry-name}/l4-type

l4-type-list

Modify Object

POST

/axapi/v3/ddos/src/entry/{src-entry-name}/l4-type/{protocol}

l4-type attributes

Replace Object

PUT

/axapi/v3/ddos/src/entry/{src-entry-name}/l4-type/{protocol}

l4-type attributes

Replace List

PUT

/axapi/v3/ddos/src/entry/{src-entry-name}/l4-type

l4-type-list

Delete Object

DELETE

/axapi/v3/ddos/src/entry/{src-entry-name}/l4-type/{protocol}

l4-type attributes

l4-type-list

l4-type-list is **JSON List** of *l4-type attributes*

l4-type-list : [

{ *l4-type attributes* },

{ *l4-type attributes* },

...

]

l4-type attributes

action

Description 'permit': Whitelist incoming packets for protocol; 'deny': Blacklist incoming packets for protocol;

Type: string

Supported Values: permit, deny

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS icmp-v4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v4 and template-icmp-v6 are mutually exclusive

template-icmp-v6

Description DDOS icmp-v6 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

Mutual Exclusion: template-icmp-v6 and template-icmp-v4 are mutually exclusive

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.470 ddos src entry oper

Operational Status for the object entry

entry Specification

Parameter	Value
Type	*Collection*
Collection Name	*entry-list*
Collection URI	/axapi/v3/ddos/src/entry/{src-entry-name}
Element Name	entry
Element URI	/axapi/v3/ddos/src/entry/{src-entry-name}/oper
Element Attributes	entry_attributes
Partition Visibility	None
Schema	`entry schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/entry/{src-entry-name}

entry attributes

Create List

POST

/axapi/v3/ddos/src/entry/{src-entry-name}

entry attributes

Get Object

GET

/axapi/v3/ddos/src/entry/{src-entry-name}/oper

entry attributes

Get List

GET

/axapi/v3/ddos/src/entry/{src-entry-name}

entry-list

Modify Object

POST

/axapi/v3/ddos/src/entry/{src-entry-name}/oper

entry attributes

Replace Object

PUT

/axapi/v3/ddos/src/entry/{src-entry-name}/oper

entry attributes

Replace List

PUT

/axapi/v3/ddos/src/entry/{src-entry-name}

entry-list

Delete Object

DELETE

/axapi/v3/ddos/src/entry/{src-entry-name}/oper

entry attributes

entry-list

entry-list is **JSON List** of *entry attributes*

entry-list : [

{ *entry attributes* },

{ *entry attributes* },

...

]

entry attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

src-entry-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

oper

Specification	Value
Type	*object*

all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

all-l4-types

Description

Type: boolean

Supported Values: true, false, 1, 0

app-type

Description

Type: string

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: string

l4-ext-rate

Description

Type: string

l4-type-str

Description

Type: string

service-displayed-count

Description

Type: number

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

2.33.471 ddos src geo-location

Configure Static Geolocation Entry

geo-location Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*geolocation-name*
Collection Name	*geo-location-list*
Collection URI	/axapi/v3/ddos/src/geo-location
Element Name	geo-location
Element URI	/axapi/v3/ddos/src/geo-location/{geolocation-name}
Element Attributes	geo-location_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/src/geo-location/{geolocation-name}/oper
Schema	`geo-location schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/geo-location

geo-location attributes

Create List

POST

/axapi/v3/ddos/src/geo-location

geo-location attributes

Get Object

GET

/axapi/v3/ddos/src/geo-location/{geolocation-name}

geo-location attributes

Get List

GET

/axapi/v3/ddos/src/geo-location

geo-location-list

Modify Object

POST

/axapi/v3/ddos/src/geo-location/{geolocation-name}

geo-location attributes

Replace Object

PUT

/axapi/v3/ddos/src/geo-location/{geolocation-name}

geo-location attributes

Replace List

PUT

/axapi/v3/ddos/src/geo-location

geo-location-list

Delete Object

DELETE

/axapi/v3/ddos/src/geo-location/{geolocation-name}

geo-location attributes

geo-location-list

geo-location-list is **JSON List** of *geo-location attributes*

geo-location-list : [

{ *geo-location attributes* },

{ *geo-location attributes* },

...

]

geo-location attributes

app-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/geo-location/{geolocation-name}/app-type/{protocol}*

bypass

Description Always permit for the Source to bypass all feature & limit checks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

description

Description Description for this Geolocation Entry

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

geolocation-name

Description Geolocation Name

Type: string

Format: string-rlx

Maximum Length: 15 characters

Maximum Length: 1 characters

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

l4-type-list

Type: List

Reference Object: */axapi/v3/ddos/src/geo-location/{geolocation-name}/l4-type/{protocol}*

log-periodic

Description Enable periodic log while event is continuing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-list

Specification	Value
Type	*list*
Block object keys	

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *app-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app-type-list_template

Specification	Value
Type	*object*

dns

Description DDOS DNS template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS HTTP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

l4-type-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'permit': Whitelist incoming packets for protocol; 'deny': Blacklist incoming packets for protocol;

Type: string

Supported Values: permit, deny

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *l4-type-list_template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4-type-list_template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS ICMP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

logging

Description DDOS logging template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.472 ddos src geo-location app-type

DDOS APP type

app-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*app-type-list*
Collection URI	/axapi/v3/ddos/src/geo-location/{geolocation-name}/app-type
Element Name	app-type
Element URI	/axapi/v3/ddos/src/geo-location/{geolocation-name}/app-type/{protocol}
Element Attributes	app-type_attributes
Partition Visibility	shared
Schema	`app-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/geo-location/{geolocation-name}/app-type

app-type attributes

Create List

POST

/axapi/v3/ddos/src/geo-location/{geolocation-name}/app-type

app-type attributes

Get Object

GET

/axapi/v3/ddos/src/geo-location/{geolocation-name}/app-type/{protocol}

app-type attributes

Get List

GET

/axapi/v3/ddos/src/geo-location/{geolocation-name}/app-type

app-type-list

Modify Object

POST

/axapi/v3/ddos/src/geo-location/{geolocation-name}/app-type/{protocol}

app-type attributes

Replace Object

PUT

/axapi/v3/ddos/src/geo-location/{geolocation-name}/app-type/{protocol}

app-type attributes

Replace List

PUT

/axapi/v3/ddos/src/geo-location/{geolocation-name}/app-type

app-type-list

Delete Object

DELETE

/axapi/v3/ddos/src/geo-location/{geolocation-name}/app-type/{protocol}

app-type attributes

app-type-list

app-type-list is **JSON List** of *app-type attributes*

app-type-list : [

{ *app-type attributes* },

{ *app-type attributes* },

...

]

app-type attributes

protocol

Description 'dns': dns; 'http': http; 'ssl-l4': ssl-l4; 'sip': sip;

Type: string

Supported Values: dns, http, ssl-l4, sip

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

dns

Description DDOS DNS template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

http

Description DDOS HTTP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

sip

Description DDOS sip template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4

Description DDOS SSL-L4 template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.473 ddos src geo-location l4-type

DDOS L4 type

l4-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*l4-type-list*
Collection URI	/axapi/v3/ddos/src/geo-location/{geolocation-name}/l4-type
Element Name	l4-type
Element URI	/axapi/v3/ddos/src/geo-location/{geolocation-name}/l4-type/{protocol}
Element Attributes	l4-type_attributes
Partition Visibility	shared
Schema	`l4-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/geo-location/{geolocation-name}/l4-type

l4-type attributes

Create List

POST

/axapi/v3/ddos/src/geo-location/{geolocation-name}/l4-type

l4-type attributes

Get Object

GET

/axapi/v3/ddos/src/geo-location/{geolocation-name}/l4-type/{protocol}

l4-type attributes

Get List

GET

/axapi/v3/ddos/src/geo-location/{geolocation-name}/l4-type

l4-type-list

Modify Object

POST

/axapi/v3/ddos/src/geo-location/{geolocation-name}/l4-type/{protocol}

l4-type attributes

Replace Object

PUT

/axapi/v3/ddos/src/geo-location/{geolocation-name}/l4-type/{protocol}

l4-type attributes

Replace List

PUT

/axapi/v3/ddos/src/geo-location/{geolocation-name}/l4-type

l4-type-list

Delete Object

DELETE

/axapi/v3/ddos/src/geo-location/{geolocation-name}/l4-type/{protocol}

l4-type attributes

l4-type-list

l4-type-list is **JSON List** of *l4-type attributes*

l4-type-list : [

{ *l4-type attributes* },

{ *l4-type attributes* },

...

]

l4-type attributes

action

Description 'permit': Whitelist incoming packets for protocol; 'deny': Blacklist incoming packets for protocol;

Type: string

Supported Values: permit, deny

glid

Description Global limit ID

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/glid*

protocol

Description 'tcp': tcp; 'udp': udp; 'icmp': icmp; 'other': other;

Type: string

Supported Values: tcp, udp, icmp, other

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

other

Description DDOS OTHER template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

tcp

Description DDOS TCP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

template-icmp-v4

Description DDOS ICMP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

udp

Description DDOS UDP template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.474 ddos src geo-location oper

Operational Status for the object geo-location

geo-location Specification

Parameter	Value
Type	*Collection*
Collection Name	*geo-location-list*
Collection URI	/axapi/v3/ddos/src/geo-location/{geolocation-name}
Element Name	geo-location
Element URI	/axapi/v3/ddos/src/geo-location/{geolocation-name}/oper
Element Attributes	geo-location_attributes
Partition Visibility	None
Schema	`geo-location schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src/geo-location/{geolocation-name}

geo-location attributes

Create List

POST

/axapi/v3/ddos/src/geo-location/{geolocation-name}

geo-location attributes

Get Object

GET

/axapi/v3/ddos/src/geo-location/{geolocation-name}/oper

geo-location attributes

Get List

GET

/axapi/v3/ddos/src/geo-location/{geolocation-name}

geo-location-list

Modify Object

POST

/axapi/v3/ddos/src/geo-location/{geolocation-name}/oper

geo-location attributes

Replace Object

PUT

/axapi/v3/ddos/src/geo-location/{geolocation-name}/oper

geo-location attributes

Replace List

PUT

/axapi/v3/ddos/src/geo-location/{geolocation-name}

geo-location-list

Delete Object

DELETE

/axapi/v3/ddos/src/geo-location/{geolocation-name}/oper

geo-location attributes

geo-location-list

geo-location-list is **JSON List** of *geo-location attributes*

```
geo-location-list : [
        { geo-location attributes },
        { geo-location attributes },
        ...
    ]
```

geo-location attributes

geolocation-name

Description Geolocation Name

Type: string

Format: string-rlx

Maximum Length: 15 characters

Maximum Length: 1 characters

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

all-entries

Description

Type: boolean

Supported Values: true, false, 1, 0

all-l4-types

Description

Type: boolean

Supported Values: true, false, 1, 0

app-type

Description

Type: string

authenticated

Description

Type: boolean

Supported Values: true, false, 1, 0

black-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

ddos_entry_list

Type: List

entry-displayed-count

Description

Type: number

exceeded

Description

Type: boolean

Supported Values: true, false, 1, 0

hw-blacklisted

Description

Type: string

l4-ext-rate

Description

Type: string

l4-type-str

Description

Type: string

service-displayed-count

Description

Type: number

white-listed

Description

Type: boolean

Supported Values: true, false, 1, 0

oper_ddos_entry_list

Specification	Value
Type	*list*
Block object keys	

age-str

Description

Type: string

app-stat1-limit

Description

Type: string

app-stat2-limit

Description

Type: string

app-stat3-limit

Description

Type: string

app-stat4-limit

Description

Type: string

app-stat5-limit

Description

Type: string

app-stat6-limit

Description

Type: string

app-stat7-limit

Description

Type: string

app-stat8-limit

Description

Type: string

connection-limit

Description

Type: string

connection-rate-limit

Description

Type: string

current-app-stat1

Description

Type: string

current-app-stat2

Description

Type: string

current-app-stat3

Description

Type: string

current-app-stat4

Description

Type: string

current-app-stat5

Description

Type: string

current-app-stat6

Description

Type: string

current-app-stat7

Description

Type: string

current-app-stat8

Description

Type: string

current-connection-rate

Description

Type: string

current-connections

Description

Type: string

current-frag-packet-rate

Description

Type: string

current-kBit-rate

Description

Type: string

current-packet-rate

Description

Type: string

debug-str

Description

Type: string

dst-address-str

Description

Type: string

Format: string-rlx

dynamic-entry-count

Description

Type: string

dynamic-entry-limit

Description

Type: string

dynamic-entry-warn-state

Description

Type: string

frag-packet-rate-limit

Description

Type: string

kBit-rate-limit

Description

Type: string

level-str

Description

Type: string

lockup-time-str

Description

Type: string

packet-rate-limit

Description

Type: string

port-str

Description

Type: string

Format: string-rlx

sflow-source-id

Description

Type: string

src-address-str

Description

Type: string

Format: string-rlx

state-str

Description

Type: string

2.33.475 ddos src-port-template

Define a DDOS src template

src-port-template Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	src-port-template
Element URI	/axapi/v3/ddos/src-port-template
Element Attributes	src-port-template_attributes
Partition Visibility	shared
Schema	`src-port-template schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/src-port-template

src-port-template_attributes

src-port-template attributes

dns-list

Type: List

Reference Object: */axapi/v3/ddos/src-port-template/dns/{name}*

tcp-list

Type: List

Reference Object: */axapi/v3/ddos/src-port-template/tcp/{name}*

udp-list

Type: List

Reference Object: */axapi/v3/ddos/src-port-template/udp/{name}*

udp-list

Specification	Value
Type	*list*
Block object keys	

drop-ntp-monlist

Description Drop NTP monlist request/response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

filter-list

Type: List

Reference Object: */axapi/v3/ddos/src-port-template/udp/{name}/filter/{udp-filter-seq}*

max-payload-size

Description Maximum UDP payload size for each single packet

Type: number

Range: 1-1470

min-payload-size

Description Minimum UDP payload size for each single packet

Type: number

Range: 1-1470

name

Description DDOS UDP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

udp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-5

udp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-list

Specification	Value
Type	*list*
Block object keys	

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

query-resolution-check

Description: query-resolution-check is a **JSON Block**. Please see below for *dns-list_query-resolution-check*

Type: Object

Reference Object: */axapi/v3/ddos/src-port-template/dns/{name}/query-resolution-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-list_query-resolution-check

Specification	Value
Type	*object*

big-response-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

big-response-size

Description Max DNS response size (in Bytes)

Type: number

Range: 1-4096

domain-lockup-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

session-timeout-value

Description max session timeout (secs) between DNS external server and Protected object

Type: number

Range: 1-30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/src-port-template/tcp/{name}/filter/{tcp-filter-seq}*

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-5

tcp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.476 ddos src-port-template dns

DNS template Configuration

dns Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*dns-list*
Collection URI	/axapi/v3/ddos/src-port-template/dns
Element Name	dns
Element URI	/axapi/v3/ddos/src-port-template/dns/{name}
Element Attributes	dns_attributes
Partition Visibility	shared
Schema	`dns schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src-port-template/dns

dns attributes

Create List

POST

/axapi/v3/ddos/src-port-template/dns

dns attributes

Get Object

GET

/axapi/v3/ddos/src-port-template/dns/{name}

dns attributes

Get List

GET

/axapi/v3/ddos/src-port-template/dns

dns-list

Modify Object

POST

/axapi/v3/ddos/src-port-template/dns/{name}

dns attributes

Replace Object

PUT

/axapi/v3/ddos/src-port-template/dns/{name}

dns attributes

Replace List

PUT

/axapi/v3/ddos/src-port-template/dns

dns-list

Delete Object

DELETE

/axapi/v3/ddos/src-port-template/dns/{name}

dns attributes

dns-list

dns-list is **JSON List** of *dns attributes*

```
dns-list : [
        { dns attributes },
        { dns attributes },
        ...
    ]
```

dns attributes

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

query-resolution-check

Description: query-resolution-check is a **JSON Block**. Please see below for *query-resolution-check*

Type: Object

Reference Object: */axapi/v3/ddos/src-port-template/dns/{name}/query-resolution-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

query-resolution-check

Specification	Value
Type	*object*

big-response-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

big-response-size

Description Max DNS response size (in Bytes)

Type: number

Range: 1-4096

domain-lockup-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

session-timeout-value

Description max session timeout (secs) between DNS external server and Protected object

Type: number

Range: 1-30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.477 ddos src-port-template dns query-resolution-check

Mitigation options against external DNS server (SYM mode only)

query-resolution-check Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	query-resolution-check
Element URI	/axapi/v3/ddos/src-port-template/dns/{name}/query-resolution-check
Element Attributes	query-resolution-check_attributes
Partition Visibility	shared
Schema	`query-resolution-check schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src-port-template/dns/{name}/query-resolution-check

query-resolution-check attributes

```
POST /axapi/v3/ddos/src-port-template/dns/a/query-resolution-check
Payload:
{
    "query-resolution-check": {
        "session-timeout-value": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/src-port-template/dns/{name}/query-resolution-check

query-resolution-check attributes

```
GET /axapi/v3/ddos/src-port-template/dns/a/query-resolution-check
Reponse:
{
    "query-resolution-check": {
        "session-timeout-value": 1,
        "domain-lockup-action": "default",
        "big-response-action": "default",
        "uuid": "831d0c9e-0883-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/src-port-template/dns/a/query-resolution-check"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/src-port-template/dns/{name}/query-resolution-check

query-resolution-check attributes

Replace Object

PUT

/axapi/v3/ddos/src-port-template/dns/{name}/query-resolution-check

query-resolution-check attributes

```
PUT /axapi/v3/ddos/src-port-template/dns/a/query-resolution-check
Payload:
{
    "query-resolution-check": {
        "session-timeout-value": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/src-port-template/dns/{name}/query-resolution-check

query-resolution-check attributes

```
DELETE /axapi/v3/ddos/src-port-template/dns/a/query-resolution-check
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

query-resolution-check attributes

big-response-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

big-response-size

Description Max DNS response size (in Bytes)

Type: number

Range: 1-4096

domain-lockup-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

session-timeout-value

Description max session timeout (secs) between DNS external server and Protected object

Type: number

Range: 1-30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.478 ddos src-port-template tcp

TCP template Configuration

tcp Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*tcp-list*
Collection URI	/axapi/v3/ddos/src-port-template/tcp
Element Name	tcp
Element URI	/axapi/v3/ddos/src-port-template/tcp/{name}
Element Attributes	tcp_attributes
Partition Visibility	shared
Schema	`tcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src-port-template/tcp

tcp attributes

```
POST /axapi/v3/ddos/src-port-template/tcp/
Payload:
{
    "tcp": {
        "name": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/src-port-template/tcp

tcp attributes

Get Object

GET

/axapi/v3/ddos/src-port-template/tcp/{name}

tcp attributes

```
GET /axapi/v3/ddos/src-port-template/tcp/a
Reponse:
{
    "tcp": {
```

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```
        "name": "a",
        "uuid": "981be5e8-0883-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/src-port-template/tcp/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/src-port-template/tcp

tcp-list

Modify Object

POST

/axapi/v3/ddos/src-port-template/tcp/{name}

tcp attributes

Replace Object

PUT

/axapi/v3/ddos/src-port-template/tcp/{name}

tcp attributes

```
PUT /axapi/v3/ddos/src-port-template/tcp/a
Payload:
{
    "tcp": {
        "name": "a"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/src-port-template/tcp

tcp-list

Delete Object

DELETE

/axapi/v3/ddos/src-port-template/tcp/{name}

tcp attributes

```
DELETE /axapi/v3/ddos/src-port-template/tcp/a
Reponse:
{
    "response": {
        "http-status": 200,
```

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```
        "status": "OK",
        "msg": "Success"
    }
}
```

tcp-list

tcp-list is **JSON List** of *tcp attributes*

tcp-list : [

{ *tcp attributes* },

{ *tcp attributes* },

...

]

tcp attributes

filter-list

Type: List

Reference Object: */axapi/v3/ddos/src-port-template/tcp/{name}/filter/{tcp-filter-seq}*

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-5

tcp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.479 ddos src-port-template tcp filter

TCP Filter Configuration

filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*tcp-filter-seq*
Collection Name	*filter-list*
Collection URI	/axapi/v3/ddos/src-port-template/tcp/{name}/filter
Element Name	filter
Element URI	/axapi/v3/ddos/src-port-template/tcp/{name}/filter/{tcp-filter-seq}
Element Attributes	filter_attributes
Partition Visibility	shared
Schema	`filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src-port-template/tcp/{name}/filter

filter attributes

Create List

POST

/axapi/v3/ddos/src-port-template/tcp/{name}/filter

filter attributes

Get Object

GET

/axapi/v3/ddos/src-port-template/tcp/{name}/filter/{tcp-filter-seq}

filter attributes

Get List

GET

/axapi/v3/ddos/src-port-template/tcp/{name}/filter

filter-list

Modify Object

POST

/axapi/v3/ddos/src-port-template/tcp/{name}/filter/{tcp-filter-seq}

filter attributes

Replace Object

PUT

/axapi/v3/ddos/src-port-template/tcp/{name}/filter/{tcp-filter-seq}

filter attributes

Replace List

PUT

/axapi/v3/ddos/src-port-template/tcp/{name}/filter

filter-list

Delete Object

DELETE

/axapi/v3/ddos/src-port-template/tcp/{name}/filter/{tcp-filter-seq}

filter attributes

filter-list

filter-list is **JSON List** of *filter attributes*

filter-list : [

{ *filter attributes* },

{ *filter attributes* },

...

]

filter attributes

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-5

tcp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.480 ddos src-port-template udp

UDP template configuration

udp Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*udp-list*
Collection URI	/axapi/v3/ddos/src-port-template/udp
Element Name	udp
Element URI	/axapi/v3/ddos/src-port-template/udp/{name}
Element Attributes	udp_attributes
Partition Visibility	shared
Schema	`udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src-port-template/udp

udp attributes

```
POST /axapi/v3/ddos/src-port-template/udp/
Payload:
{
    "udp": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/src-port-template/udp

udp attributes

Get Object

GET

/axapi/v3/ddos/src-port-template/udp/{name}

udp attributes

```
GET /axapi/v3/ddos/src-port-template/udp/a
Reponse:
{
    "udp": {
        "name": "a",
        "drop-ntp-monlist": 0,
        "uuid": "c1bdfd78-0883-11f0-b674-001fa04507c0",
        "user-tag": "a",
```

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```
        "a10-url": "/axapi/v3/ddos/src-port-template/udp/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/src-port-template/udp

udp-list

Modify Object

POST

/axapi/v3/ddos/src-port-template/udp/{name}

udp attributes

Replace Object

PUT

/axapi/v3/ddos/src-port-template/udp/{name}

udp attributes

```
PUT /axapi/v3/ddos/src-port-template/udp/a
Payload:
{
    "udp": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/src-port-template/udp

udp-list

Delete Object

DELETE

/axapi/v3/ddos/src-port-template/udp/{name}

udp attributes

```
DELETE /axapi/v3/ddos/src-port-template/udp/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
```

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```
        "msg": "Success"
    }
}
```

udp-list

udp-list is **JSON List** of *udp attributes*

udp-list : [

{ *udp attributes* },

{ *udp attributes* },

...

]

udp attributes

drop-ntp-monlist

Description Drop NTP monlist request/response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

filter-list

Type: List

Reference Object: */axapi/v3/ddos/src-port-template/udp/{name}/filter/{udp-filter-seq}*

max-payload-size

Description Maximum UDP payload size for each single packet

Type: number

Range: 1-1470

min-payload-size

Description Minimum UDP payload size for each single packet

Type: number

Range: 1-1470

name

Description DDOS UDP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-5

udp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.481 ddos src-port-template udp filter

UDP Filter Configuration

filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*udp-filter-seq*
Collection Name	*filter-list*
Collection URI	/axapi/v3/ddos/src-port-template/udp/{name}/filter
Element Name	filter
Element URI	/axapi/v3/ddos/src-port-template/udp/{name}/filter/{udp-filter-seq}
Element Attributes	filter_attributes
Partition Visibility	shared
Schema	`filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/src-port-template/udp/{name}/filter

filter attributes

Create List

POST

/axapi/v3/ddos/src-port-template/udp/{name}/filter

filter attributes

Get Object

GET

/axapi/v3/ddos/src-port-template/udp/{name}/filter/{udp-filter-seq}

filter attributes

Get List

GET

/axapi/v3/ddos/src-port-template/udp/{name}/filter

filter-list

Modify Object

POST

/axapi/v3/ddos/src-port-template/udp/{name}/filter/{udp-filter-seq}

filter attributes

Replace Object

PUT

/axapi/v3/ddos/src-port-template/udp/{name}/filter/{udp-filter-seq}

filter attributes

Replace List

PUT

/axapi/v3/ddos/src-port-template/udp/{name}/filter

filter-list

Delete Object

DELETE

/axapi/v3/ddos/src-port-template/udp/{name}/filter/{udp-filter-seq}

filter attributes

filter-list

filter-list is **JSON List** of *filter attributes*

filter-list : [

{ *filter attributes* },

{ *filter attributes* },

...

]

filter attributes

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-5

udp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.482 ddos switch

switch counters

switch Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	switch
Element URI	/axapi/v3/ddos/switch
Element Attributes	switch_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/switch/stats
Schema	`switch schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/switch

switch attributes

Get Object

GET

/axapi/v3/ddos/switch

switch attributes

Modify Object

POST

/axapi/v3/ddos/switch

switch attributes

Replace Object

PUT

/axapi/v3/ddos/switch

switch attributes

Delete Object

DELETE

/axapi/v3/ddos/switch

switch attributes

switch attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.483 ddos switch stats

Statistics for the object switch

switch Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	switch
Element URI	/axapi/v3/ddos/switch/stats
Element Attributes	switch_attributes
Partition Visibility	None
Schema	`switch schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/switch/stats

switch attributes

Get Object

GET

/axapi/v3/ddos/switch/stats

switch attributes

Modify Object

POST

/axapi/v3/ddos/switch/stats

switch attributes

Replace Object

PUT

/axapi/v3/ddos/switch/stats

switch attributes

Delete Object

DELETE

/axapi/v3/ddos/switch/stats

switch attributes

switch attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dst_blackhole_inject

Description Dst Blackhole Injected

Type: number

Format: counter

dst_blackhole_withdraw

Description Dst Blackhole Withdrawn

Type: number

Format: counter

dst_ip_bypass

Description Dst IP Bypass

Type: number

Format: counter

egress_bytes

Description Outbound Bytes Received

Type: number

Format: counter

egress_packets

Description Outbound Packets Received

Type: number

Format: counter

in_stateless_pkt

Description Stateless Packets Received

Type: number

Format: counter

ingress_bytes

Description Inbound Bytes Received

Type: number

Format: counter

ingress_packets

Description Inbound Packets Received

Type: number

Format: counter

ip_rcvd

Description IPv4 Received

Type: number

Format: counter

ip_sent

Description IPv4 Sent

Type: number

Format: counter

ipv6_rcvd

Description IPv6 Received

Type: number

Format: counter

ipv6_sent

Description IPv6 Sent

Type: number

Format: counter

jumbo_frag_drop_before_slb

Description Jumbo Fragment Non Data Plane Drop

Type: number

Format: counter

jumbo_frag_drop_by_filter

Description Jumbo Fragment Filter Miss Drop

Type: number

Format: counter

jumbo_outgoing_mtu_exceed_drop

Description Jumbo Outgoing MTU Exceed Drop

Type: number

Format: counter

mpls_drop

Description MPLS Dropped

Type: number

Format: counter

mpls_malformed

Description MPLS Malformed

Type: number

Format: counter

mpls_rcvd

Description MPLS Received

Type: number

Format: counter

noroute

Description IPv4/v6 Out No Route

Type: number

Format: counter

pkt_not_for_ddos

Description Not For DDOS

Type: number

Format: counter

src_ip_bypass

Description Src IP Bypass

Type: number

Format: counter

2.33.484 ddos sync

Sync White list to peer devices

sync Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sync
Element URI	/axapi/v3/ddos/sync
Element Attributes	sync_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/sync/oper
Schema	`sync schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/sync

sync attributes

```
POST /axapi/v3/ddos/sync
Payload:
{
    "sync": {
        "enable": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/sync

sync attributes

```
GET /axapi/v3/ddos/sync
Reponse:
{
    "sync": {
        "enable": 1,
        "uuid": "cb1ed2ae-bb97-11ef-a72a-63c0c17412b6",
        "a10-url": "/axapi/v3/ddos/sync"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/sync

sync attributes

Replace Object

PUT

/axapi/v3/ddos/sync

sync attributes

```
PUT /axapi/v3/ddos/sync
Payload:
{
    "sync": {
        "enable": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/sync

sync attributes

```
DELETE /axapi/v3/ddos/sync
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

sync attributes

enable

Description Enable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

local-ip

Description Local IP address for White list sync

Type: string

Format: ipv4-address

peer-ip-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

peer-ip-cfg

Specification	Value
Type	*list*
Block object keys	

peer-ip

Description IP Address

Type: string

Format: ipv4-address

2.33.485 ddos sync oper

Operational Status for the object sync

sync Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sync
Element URI	/axapi/v3/ddos/sync/oper
Element Attributes	sync_attributes
Partition Visibility	None
Schema	`sync schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/sync/oper

sync attributes

Get Object

GET

/axapi/v3/ddos/sync/oper

sync attributes

Modify Object

POST

/axapi/v3/ddos/sync/oper

sync attributes

Replace Object

PUT

/axapi/v3/ddos/sync/oper

sync attributes

Delete Object

DELETE

/axapi/v3/ddos/sync/oper

sync attributes

sync attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

error-str

Description

Type: string

if-show-error-num

Description

Type: number

local-ip

Description

Type: string

Format: ipv4-address

peer-list

Type: List

status

Description DDOS sync status

Type: string

Supported Values: ENABLED, DISABLED

total-message-received

Description Total number of messages received on this device

Type: number

total-message-sent

Description Total number of messages sent from this device

Type: number

oper_peer-list

Specification	Value
Type	*list*
Block object keys	

peer-heartbeat-missing

Description Number of heartbeat messages expected from the peer that did not arrive

Type: number

peer-ip

Description

Type: string

Format: ipv4-address

peer-message-received

Description Number of messages received from this peer

Type: number

peer-message-sent

Description Number messages sent to this peer

Type: number

peer-status

Description Status of the connection with the peer

Type: string

Supported Values: UP, DOWN

2.33.486 ddos system-default

Configure system default values for DDOS

system-default Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	system-default
Element URI	/axapi/v3/ddos/system-default
Element Attributes	system-default_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/system-default/oper
Schema	`system-default schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/system-default

system-default attributes

```
POST /axapi/v3/ddos/system-default
Payload:
{
    "system-default": {
        "limit-list": [
            {
                "limit-type": "dst-entry",
                "user-tag": "a"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/ddos/system-default

system-default attributes

```
GET /axapi/v3/ddos/system-default
Reponse:
{
    "system-default": {
        "uuid": "cb1e8db2-bb97-11ef-a72a-63c0c17412b6",
        "limit-list": [
            {
```

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```
                "limit-type": "dst-entry",
                "default-over-limit-action": {
                    "drop": 0
                },
                "uuid": "155d01fe-0884-11f0-b674-001fa04507c0",
                "user-tag": "a",
                "a10-url": "/axapi/v3/ddos/system-default/limit/dst-entry"
            }
        ],
        "a10-url": "/axapi/v3/ddos/system-default"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/system-default

system-default attributes

Replace Object

PUT

/axapi/v3/ddos/system-default

system-default attributes

```
PUT /axapi/v3/ddos/system-default
Payload:
{
    "system-default": {
        "limit-list": [
            {
                "limit-type": "dst-entry",
                "default-over-limit-action": {
                    "drop": 0
                }
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/system-default

system-default attributes

```
DELETE /axapi/v3/ddos/system-default
Reponse:
{
```

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```
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```


system-default attributes

limit-list

Type: List

Reference Object: */axapi/v3/ddos/system-default/limit/{limit-type}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

limit-list

Specification	Value
Type	*list*
Block object keys	

default-bit-rate-limit

Description Configure Default Kibit (kibibit / 1024-bit) rate limit

Type: number

Range: 1-16000000

default-conn-limit

Description Configure Default Connection limit

Type: number

Range: 1-16000000

default-conn-rate-limit

Description Configure Default Connection rate limit

Type: number

Range: 1-16000000

default-frag-pkt-rate-limit

Description Configure Default Fragmented packet rate limit

Type: number

Range: 1-16000000

default-over-limit-action

Description: default-over-limit-action is a **JSON Block**. Please see below for *limit-list_default-over-limit-action*

Type: Object

default-pkt-rate-limit

Description Configure Default Packet rate limit

Type: number

Range: 1-16000000

limit-type

Description 'dst-entry': dst-entry; 'dst-icmp': dst-icmp; 'dst-other': dst-other; 'dst-tcp': dst-tcp; 'dst-udp': dst-udp; 'src-entry': src-entry; 'src-icmp': src-icmp; 'src-other': src-other; 'src-tcp': src-tcp; 'src-udp': src-udp;

Type: string

Supported Values: dst-entry, dst-icmp, dst-other, dst-tcp, dst-udp, src-entry, src-icmp, src-other, src-tcp, src-udp

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

limit-list_default-over-limit-action

Specification	Value
Type	*object*

drop

Description Silently Drop the new connection / new packet when it exceeds limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.487 ddos system-default limit

Specify DDOS system-default limits

limit Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*limit-type*
Collection Name	*limit-list*
Collection URI	/axapi/v3/ddos/system-default/limit
Element Name	limit
Element URI	/axapi/v3/ddos/system-default/limit/{limit-type}
Element Attributes	limit_attributes
Partition Visibility	shared
Schema	`limit schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/system-default/limit

limit attributes

```
POST /axapi/v3/ddos/system-default/limit/
Payload:
{
    "limit": {
        "limit-type": "dst-entry",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/system-default/limit

limit attributes

Get Object

GET

/axapi/v3/ddos/system-default/limit/{limit-type}

limit attributes

```
GET /axapi/v3/ddos/system-default/limit/dst-entry
Reponse:
{
    "limit": {
        "limit-type": "dst-entry",
        "default-over-limit-action": {
            "drop": 0
        },
        "uuid": "24895ed4-0884-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/system-default/limit/dst-entry"
    }
}
```

Get List

GET

/axapi/v3/ddos/system-default/limit

limit-list

Modify Object

POST

/axapi/v3/ddos/system-default/limit/{limit-type}

limit attributes

Replace Object

PUT

/axapi/v3/ddos/system-default/limit/{limit-type}

limit attributes

```
PUT /axapi/v3/ddos/system-default/limit/dst-entry
Payload:
{
    "limit": {
        "limit-type": "dst-entry",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/system-default/limit

limit-list

Delete Object

DELETE

/axapi/v3/ddos/system-default/limit/{limit-type}

limit attributes

```
DELETE /axapi/v3/ddos/system-default/limit/dst-entry
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

limit-list

limit-list is **JSON List** of *limit attributes*

limit-list : [

{ *limit attributes* },

{ *limit attributes* },

...

]

limit attributes

default-bit-rate-limit

Description Configure Default Kibit (kibibit / 1024-bit) rate limit

Type: number

Range: 1-16000000

default-conn-limit

Description Configure Default Connection limit

Type: number

Range: 1-16000000

default-conn-rate-limit

Description Configure Default Connection rate limit

Type: number

Range: 1-16000000

default-frag-pkt-rate-limit

Description Configure Default Fragmented packet rate limit

Type: number

Range: 1-16000000

default-over-limit-action

Description: default-over-limit-action is a **JSON Block**. Please see below for *default-over-limit-action*

Type: Object

default-pkt-rate-limit

Description Configure Default Packet rate limit

Type: number

Range: 1-16000000

limit-type

Description 'dst-entry': dst-entry; 'dst-icmp': dst-icmp; 'dst-other': dst-other; 'dst-tcp': dst-tcp; 'dst-udp': dst-udp; 'src-entry': src-entry; 'src-icmp': src-icmp; 'src-other': src-other; 'src-tcp': src-tcp; 'src-udp': src-udp;

Type: string

Supported Values: dst-entry, dst-icmp, dst-other, dst-tcp, dst-udp, src-entry, src-icmp, src-other, src-tcp, src-udp

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

default-over-limit-action

Specification	Value
Type	*object*

drop

Description Silently Drop the new connection / new packet when it exceeds limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.488 ddos system-default oper

Operational Status for the object system-default

system-default Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	system-default
Element URI	/axapi/v3/ddos/system-default/oper
Element Attributes	system-default_attributes
Partition Visibility	None
Schema	`system-default schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/system-default/oper

system-default attributes

Get Object

GET

/axapi/v3/ddos/system-default/oper

system-default attributes

Modify Object

POST

/axapi/v3/ddos/system-default/oper

system-default attributes

Replace Object

PUT

/axapi/v3/ddos/system-default/oper

system-default attributes

Delete Object

DELETE

/axapi/v3/ddos/system-default/oper

system-default attributes

system-default attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

dst-bit-entry

Description

Type: string

dst-bit-icmp

Description

Type: string

dst-bit-other

Description

Type: string

dst-bit-tcp

Description

Type: string

dst-bit-udp

Description

Type: string

dst-conn-entry

Description

Type: string

dst-conn-icmp

Description

Type: string

dst-conn-other

Description

Type: string

dst-conn-r-entry

Description

Type: string

dst-conn-r-icmp

Description

Type: string

dst-conn-r-other

Description

Type: string

dst-conn-r-tcp

Description

Type: string

dst-conn-r-udp

Description

Type: string

dst-conn-tcp

Description

Type: string

dst-conn-udp

Description

Type: string

dst-frag-entry

Description

Type: string

dst-frag-icmp

Description

Type: string

dst-frag-other

Description

Type: string

dst-frag-tcp

Description

Type: string

dst-frag-udp

Description

Type: string

dst-pkt-entry

Description

Type: string

dst-pkt-icmp

Description

Type: string

dst-pkt-other

Description

Type: string

dst-pkt-tcp

Description

Type: string

dst-pkt-udp

Description

Type: string

src-bit-entry

Description

Type: string

src-bit-icmp

Description

Type: string

src-bit-other

Description

Type: string

src-bit-tcp

Description

Type: string

src-bit-udp

Description

Type: string

src-conn-entry

Description

Type: string

src-conn-icmp

Description

Type: string

src-conn-other

Description

Type: string

src-conn-r-entry

Description

Type: string

src-conn-r-icmp

Description

Type: string

src-conn-r-other

Description

Type: string

src-conn-r-tcp

Description

Type: string

src-conn-r-udp

Description

Type: string

src-conn-tcp

Description

Type: string

src-conn-udp

Description

Type: string

src-frag-entry

Description

Type: string

src-frag-icmp

Description

Type: string

src-frag-other

Description

Type: string

src-frag-tcp

Description

Type: string

src-frag-udp

Description

Type: string

src-pkt-entry

Description

Type: string

src-pkt-icmp

Description

Type: string

src-pkt-other

Description

Type: string

src-pkt-tcp

Description

Type: string

src-pkt-udp

Description

Type: string

2.33.489 ddos table

table counters

table Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	table
Element URI	/axapi/v3/ddos/table
Element Attributes	table_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/table/stats
Schema	`table schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/table

table attributes

Get Object

GET

/axapi/v3/ddos/table

table attributes

Modify Object

POST

/axapi/v3/ddos/table

table attributes

Replace Object

PUT

/axapi/v3/ddos/table

table attributes

Delete Object

DELETE

/axapi/v3/ddos/table

table attributes

table attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.490 ddos table stats

Statistics for the object table

table Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	table
Element URI	/axapi/v3/ddos/table/stats
Element Attributes	table_attributes
Partition Visibility	None
Schema	`table schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/table/stats

table attributes

Get Object

GET

/axapi/v3/ddos/table/stats

table attributes

Modify Object

POST

/axapi/v3/ddos/table/stats

table attributes

Replace Object

PUT

/axapi/v3/ddos/table/stats

table attributes

Delete Object

DELETE

/axapi/v3/ddos/table/stats

table attributes

table attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dst_black_list

Description Dst Entry Blacklisted

Type: number

Format: counter

dst_entry_aged

Description Dst Entry Aged

Type: number

Format: counter

dst_hit

Description Dst Entry Hit

Type: number

Format: counter

dst_learn

Description Dst Entry Learned

Type: number

Format: counter

dst_learning_thre_exceed

Description Dst Dynamic Entry Count Overflow

Type: number

Format: counter

dst_miss

Description Dst Entry Missed

Type: number

Format: counter

dst_over_thre_policy_at_learning

Description Dst Overflow Policy Hit At Learning Stage

Type: number

Format: counter

dst_white_list

Description Dst Entry Whitelisted

Type: number

Format: counter

entry_ext_oom

Description Out of Entry Extension Memory

Type: number

Format: counter

entry_oom

Description Out of Entry Memory

Type: number

Format: counter

src_black_list

Description Src Entry Blacklisted

Type: number

Format: counter

src_dst_black_list

Description SrcDst Entry Blacklisted

Type: number

Format: counter

src_dst_classlist_overflow_policy_at_learning

Description SrcDst Class-List Overflow Policy Hit

Type: number

Format: counter

src_dst_entry_aged

Description SrcDst Entry Aged

Type: number

Format: counter

src_dst_hit

Description SrcDst Entry Hit

Type: number

Format: counter

src_dst_learn

Description SrcDst Entry Learned

Type: number

Format: counter

src_dst_learning_thre_exceed

Description SrcDst Dynamic Entry Count Overflow

Type: number

Format: counter

src_dst_miss

Description SrcDst Entry Missed

Type: number

Format: counter

src_dst_over_thre_policy_at_learning

Description SrcDst Overflow Policy Hit At Learning Stage

Type: number

Format: counter

src_dst_over_thre_policy_at_lookup

Description SrcDst Overflow Policy Hit At Lookup Stage

Type: number

Format: counter

src_dst_white_list

Description SrcDst Entry Whitelisted

Type: number

Format: counter

src_entry_aged

Description Src Entry Aged

Type: number

Format: counter

src_hit

Description Src Entry Hit

Type: number

Format: counter

src_learn

Description Src Entry Learned

Type: number

Format: counter

src_learning_thre_exceed

Description Src Dynamic Entry Count Overflow

Type: number

Format: counter

src_miss

Description Src Entry Missed

Type: number

Format: counter

src_over_thre_policy_at_learning

Description Src Overflow Policy Hit At Learning Stage

Type: number

Format: counter

src_over_thre_policy_at_lookup

Description Src Overflow Policy Hit At Lookup Stage

Type: number

Format: counter

src_white_list

Description Src Entry Whitelisted

Type: number

Format: counter

src_zone_service_black_list

Description SrcZoneService Entry Blacklisted

Type: number

Format: counter

src_zone_service_classlist_overflow_policy_at_learning

Description SrcZoneService Class-List Overflow Policy Hit

Type: number

Format: counter

src_zone_service_entry_aged

Description SrcZoneService Entry Aged

Type: number

Format: counter

src_zone_service_hit

Description SrcZoneService Entry Hit

Type: number

Format: counter

src_zone_service_learn

Description SrcZoneService Entry Learned

Type: number

Format: counter

src_zone_service_learning_thre_exceed

Description SrcZoneService Dynamic Entry Count Overflow

Type: number

Format: counter

src_zone_service_miss

Description SrcZoneService Entry Missed

Type: number

Format: counter

src_zone_service_over_thre_policy_at_learning

Description SrcZoneService Overflow Policy Learning Hit

Type: number

Format: counter

src_zone_service_over_thre_policy_at_lookup

Description SrcZoneService Overflow Policy Lookup Hit

Type: number

Format: counter

src_zone_service_white_list

Description SrcZoneService Entry Whitelisted

Type: number

Format: counter

telem_entry_cleared

Description From-l3-peer: Zone Entry Deleted

Type: number

Format: counter

telem_entry_created

Description From-l3-peer: Zone Entry Created

Type: number

Format: counter

telem_err_conflict_with_static

Description From-l3-peer: Conflict with Static Entry

Type: number

Format: counter

telem_err_fail_to_create

Description From-l3-peer: Zone Entry Create Fail

Type: number

Format: counter

telem_err_fail_to_delete

Description From-l3-peer: Zone Entry Delete Fail

Type: number

Format: counter

telem_err_misc

Description From-l3-peer: Misc Error

Type: number

Format: counter

telem_err_telem_entry_pre_exist

Description From-l3-peer: Zone Entry Pre-exist

Type: number

Format: counter

telem_route_add_rcvd

Description From-l3-peer: Route-add Received

Type: number

Format: counter

telem_route_del_rcvd

Description From-l3-peer: Route-del Received

Type: number

Format: counter

2.33.491 ddos tap

DDoS TAP interface(s)

tap Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tap
Element URI	/axapi/v3/ddos/tap
Element Attributes	tap_attributes
Partition Visibility	shared
Schema	`tap schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/tap

tap attributes

```
POST /axapi/v3/ddos/tap
Payload:
{
    "tap": {
        "ethernet-start-cfg": [
            {
                "ethernet-start": 1,
                "ethernet-end": 1
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/ddos/tap

tap attributes

```
GET /axapi/v3/ddos/tap
Reponse:
```

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```
{
    "tap": {
        "ethernet-start-cfg": [
            {
                "ethernet-start": 1,
                "ethernet-end": 1
            }
        ],
        "uuid": "43c58750-0884-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/tap"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/tap

tap attributes

Replace Object

PUT

/axapi/v3/ddos/tap

tap attributes

```
PUT /axapi/v3/ddos/tap
Payload:
{
    "tap": {
        "ethernet-start-cfg": [
            {
                "ethernet-start": 2,
                "ethernet-end": 2
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/tap

tap attributes

```
DELETE /axapi/v3/ddos/tap
Reponse:
{
    "response": {
        "http-status": 200,
```

(continues on next page)

(continued from previous page)

```
        "status": "OK",
        "msg": "Success"
    }
}
```

tap attributes

ethernet-start-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ethernet-start-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description

Type: number

Format: interface

ethernet-start

Description Traffic receive from the ethernet port will be dropped

Type: number

Format: interface

2.33.492 ddos tcp-port stats

Statistics for the object tcp-port

tcp-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*tcp-port-list*
Collection URI	/axapi/v3/ddos/tcp-port
Element Name	tcp-port
Element URI	/axapi/v3/ddos/tcp-port/stats
Element Attributes	tcp-port_attributes
Partition Visibility	None
Schema	`tcp-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/tcp-port

tcp-port attributes

Create List

POST

/axapi/v3/ddos/tcp-port

tcp-port attributes

Get Object

GET

/axapi/v3/ddos/tcp-port/stats

tcp-port attributes

Get List

GET

/axapi/v3/ddos/tcp-port

tcp-port-list

Modify Object

POST

/axapi/v3/ddos/tcp-port/stats

tcp-port attributes

Replace Object

PUT

/axapi/v3/ddos/tcp-port/stats

tcp-port attributes

Replace List

PUT

/axapi/v3/ddos/tcp-port

tcp-port-list

Delete Object

DELETE

/axapi/v3/ddos/tcp-port/stats

tcp-port attributes

tcp-port-list

tcp-port-list is **JSON List** of *tcp-port attributes*

tcp-port-list : [

{ *tcp-port attributes* },

{ *tcp-port attributes* },

…

]

tcp-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ack_auth_fail

Description ACK Retry Dropped

Type: number

Format: counter

ack_retry_blacklist

Description ACK Retry Timeout Blacklisted

Type: number

Format: counter

ack_retry_gap_drop

Description ACK Retry Retry-Gap Dropped

Type: number

Format: counter

ack_retry_init

Description ACK Retry Init

Type: number

Format: counter

ack_retry_pass

Description ACK Retry Passed

Type: number

Format: counter

ack_retry_reset

Description ACK Retry Timeout Reset

Type: number

Format: counter

ack_retry_rto_fail

Description ACK Retry RTO Dropped

Type: number

Format: counter

ack_retry_rto_pass

Description ACK Retry RTO Passed

Type: number

Format: counter

ack_retry_rto_progress

Description ACK Retry RTO Progress

Type: number

Format: counter

ack_retry_timeout

Description ACK Retry Timeout

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

conn_close

Description Connections Closed

Type: number

Format: counter

conn_close_half_open

Description Half Open Connections Closed

Type: number

Format: counter

conn_close_w_fin

Description FIN Connections Closed

Type: number

Format: counter

conn_close_w_idle

Description Idle Connections Closed

Type: number

Format: counter

conn_close_w_rst

Description RST Connections Closed

Type: number

Format: counter

conn_create_from_ack

Description Connections Created From ACK

Type: number

Format: counter

conn_create_from_syn

Description Connections Created From SYN

Type: number

Format: counter

conn_create_from_synack

Description Connections Created From SYNACK

Type: number

Format: counter

conn_ofo_rate_excd

Description TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

conn_prate_excd

Description TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

conn_rexmit_rate_excd

Description TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

conn_zwindow_rate_excd

Description TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

create_conn_non_syn_dropped

Description Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action WL

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

hybrid_auth_auth_no_match

Description SYN Auth Hybrid Auth No Match Drop

Type: number

Format: counter

hybrid_auth_auth_no_match_ack_rcv

Description SYN Auth Hybrid Auth No Match Drop: ACK Received

Type: number

Format: counter

hybrid_auth_auth_no_match_rst_rcv

Description SYN Auth Hybrid Auth No Match Drop: RST Received

Type: number

Format: counter

hybrid_auth_entry_aged_out

Description SYN Auth Hybrid Entry Aged Out

Type: number

Format: counter

hybrid_auth_filter_full

Description SYN Auth Hybrid Filter Full

Type: number

Format: counter

hybrid_auth_invalid_fail

Description SYN Auth Hybrid Invalid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_invalid_pass

Description SYN Auth Hybrid Invalid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_invalid_sa_sent

Description SYN Auth Hybrid Invalid SYNACK Sent

Type: number

Format: counter

hybrid_auth_lookup_fail

Description SYN Auth Hybrid Lookup Fail

Type: number

Format: counter

hybrid_auth_method_change

Description SYN Auth Hybrid Method Change

Type: number

Format: counter

hybrid_auth_unknown_fail

Description SYN Auth Hybrid Unknown Auth Fail

Type: number

Format: counter

hybrid_auth_unknown_pass

Description SYN Auth Hybrid Unknown Auth Pass

Type: number

Format: counter

hybrid_auth_valid_fail

Description SYN Auth Hybrid Valid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_valid_pass

Description SYN Auth Hybrid Valid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_valid_sa_sent

Description SYN Auth Hybrid Valid SYNACK Sent

Type: number

Format: counter

out_of_seq_excd

Description Out-Of-Seq Exceeded

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_syn_rate_exceed

Description TCP SYN Rate Exceeded

Type: number

Format: counter

port_synack_rate_exceed

Description TCP SYNACK Rate Exceeded

Type: number

Format: counter

prog_conn_exceed_bl

Description Connection: Violation Exceed Blacklisted

Type: number

Format: counter

prog_conn_exceed_drop

Description Connection: Violation Exceed Dropped

Type: number

Format: counter

prog_conn_exceed_reset

Description Connection: Violation Exceed Reset

Type: number

Format: counter

prog_conn_rcvd_exceed

Description Connection: Received Exceed

Type: number

Format: counter

prog_conn_rcvd_sent_ratio_exceed

Description Connection: Reveived to Sent Ratio Exceed

Type: number

Format: counter

prog_conn_samples

Description Sample Collected: Connection

Type: number

Format: counter

prog_conn_samples_processed

Description Sample Processed: Connnection

Type: number

Format: counter

prog_conn_sent_exceed

Description Connection: Sent Exceed

Type: number

Format: counter

prog_conn_time_exceed

Description Connection: Time Exceed

Type: number

Format: counter

prog_exceed_bl

Description Req-Resp: Violation Exceed Blacklisted

Type: number

Format: counter

prog_exceed_drop

Description Req-Resp: Violation Exceed Dropped

Type: number

Format: counter

prog_exceed_reset

Description Req-Resp: Violation Exceed Reset

Type: number

Format: counter

prog_first_req_time_exceed

Description Req-Resp: First Request Time Exceed

Type: number

Format: counter

prog_query_exceed

Description Req-Resp: Client Query Time Exceed

Type: number

Format: counter

prog_req_resp_time_exceed

Description Req-Resp: Request to Response Time Exceed

Type: number

Format: counter

prog_req_samples

Description Sample Collected: Req-Resp

Type: number

Format: counter

prog_req_samples_processed

Description Sample Processed: Req-Resp

Type: number

Format: counter

prog_request_len_exceed

Description Req-Resp: Request Length Exceed

Type: number

Format: counter

prog_resp_pkt_rate_exceed

Description Req-Resp: Response Packet Rate Exceed

Type: number

Format: counter

prog_resp_req_time_exceed

Description Req-Resp: Response to Request Time Exceed

Type: number

Format: counter

prog_response_len_exceed

Description Req-Resp: Response Length Exceed

Type: number

Format: counter

prog_think_exceed

Description Req-Resp: Server Think Time Exceed

Type: number

Format: counter

prog_win_exceed_bl

Description Time Window: Violation Exceed Blacklisted

Type: number

Format: counter

prog_win_exceed_drop

Description Time Window: Violation Exceed Dropped

Type: number

Format: counter

prog_win_exceed_reset

Description Time Window: Violation Exceed Reset

Type: number

Format: counter

prog_win_rcvd_exceed

Description Time Window: Received Exceed

Type: number

Format: counter

prog_win_rcvd_sent_ratio_exceed

Description Time Window: Received to Sent Exceed

Type: number

Format: counter

prog_win_samples

Description Sample Collected: Time Window

Type: number

Format: counter

prog_win_samples_processed

Description Sample Processed: Time Wind

Type: number

Format: counter

prog_win_sent_exceed

Description Time Window: Sent Exceed

Type: number

Format: counter

retransmit_excd

Description Retransmit Exceeded

Type: number

Format: counter

rst_cookie_fail

Description RST Cookie Failed

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

small_window_excd

Description Small-Window Exceeded

Type: number

Format: counter

small_window_rcv

Description Small-Window Receive

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

src_ack_auth_fail

Description Src ACK Retry Dropped

Type: number

Format: counter

src_ack_retry_blacklist

Description Src ACK Retry Timeout Blacklisted

Type: number

Format: counter

src_ack_retry_gap_drop

Description Src ACK Retry Retry-Gap Dropped

Type: number

Format: counter

src_ack_retry_init

Description Src ACK Retry Init

Type: number

Format: counter

src_ack_retry_reset

Description Src ACK Retry Timeout Reset

Type: number

Format: counter

src_ack_retry_rto_fail

Description Src ACK Retry RTO Dropped

Type: number

Format: counter

src_ack_retry_rto_pass

Description Src ACK Retry RTO Passed

Type: number

Format: counter

src_ack_retry_rto_progress

Description Src ACK Retry RTO Progress

Type: number

Format: counter

src_ack_retry_timeout

Description Src ACK Retry Timeout

Type: number

Format: counter

src_auth_drop

Description Src TCP Auth Dropped

Type: number

Format: counter

src_auth_drop_ack

Description Src TCP Auth Dropped: ACK

Type: number

Format: counter

src_auth_drop_ack_fail_auth

Description Src TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

src_auth_drop_ack_pass_auth

Description Src TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

src_auth_drop_ack_xmit

Description Src TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

src_auth_drop_rst

Description Src TCP Auth Dropped: RST

Type: number

Format: counter

src_auth_drop_rst_fail_auth

Description Src TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

src_auth_drop_rst_pass_auth

Description Src TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

src_auth_drop_rst_xmit

Description Src TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

src_auth_drop_syn

Description Src TCP Auth Dropped: SYN

Type: number

Format: counter

src_conn_ofo_rate_excd

Description Src TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_conn_rexmit_rate_excd

Description Src TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

src_conn_zwindow_rate_excd

Description Src TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

src_create_conn_non_syn_dropped

Description Src Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_out_of_seq_excd

Description Src Out-Of-Seq Exceeded

Type: number

Format: counter

src_retransmit_excd

Description Src Retransmit Exceeded

Type: number

Format: counter

src_rst_cookie_fail

Description Src RST Cookie Failed

Type: number

Format: counter

src_small_window_excd

Description Src Small-Window Exceeded

Type: number

Format: counter

src_syn_auth_fail

Description Src SYN Auth Failed

Type: number

Format: counter

src_syn_cookie_fail

Description Src SYN Cookie Failed

Type: number

Format: counter

src_syn_cookie_sent

Description Src SYN Cookie Sent

Type: number

Format: counter

src_syn_rate_exceed

Description Src TCP SYN Rate Exceeded

Type: number

Format: counter

src_syn_retry_blacklist

Description Src SYN Retry Timeout Blacklisted

Type: number

Format: counter

src_syn_retry_failed

Description Src SYN Retry Dropped

Type: number

Format: counter

src_syn_retry_gap_drop

Description Src SYN Retry-Gap Dropped

Type: number

Format: counter

src_syn_retry_init

Description Src SYN Retry Init

Type: number

Format: counter

src_syn_retry_reset

Description Src SYN Retry Timeout Reset

Type: number

Format: counter

src_syn_retry_rto_fail

Description Src SYN Retry RTO Dropped

Type: number

Format: counter

src_syn_retry_rto_pass

Description Src SYN Retry RTO Passed

Type: number

Format: counter

src_syn_retry_rto_progress

Description Src SYN Retry RTO Progress

Type: number

Format: counter

src_syn_retry_timeout

Description Src SYN Retry Timeout

Type: number

Format: counter

src_tcp_auth_rst

Description Src TCP Auth Reset

Type: number

Format: counter

src_unauth_drop

Description Src TCP Unauth Dropped

Type: number

Format: counter

src_well_known_port

Description Src TCP SrcPort Wellknown

Type: number

Format: counter

src_zero_window_excd

Description Src Zero-Window Exceeded

Type: number

Format: counter

syn_auth_fail

Description SYN Auth Failed

Type: number

Format: counter

syn_auth_pass

Description SYN Auth Passed

Type: number

Format: counter

syn_auth_rst_ack_drop

Description SYN Auth RST-ACK Dropped

Type: number

Format: counter

syn_cookie_fail

Description SYN Cookie Failed

Type: number

Format: counter

syn_cookie_sent

Description SYN Cookie Sent

Type: number

Format: counter

syn_drop

Description SYN Dropped

Type: number

Format: counter

syn_retry_blacklist

Description SYN Retry Timeout Blacklisted

Type: number

Format: counter

syn_retry_failed

Description SYN Retry Dropped

Type: number

Format: counter

syn_retry_gap_drop

Description SYN Retry-Gap Dropped

Type: number

Format: counter

syn_retry_init

Description SYN Retry Init

Type: number

Format: counter

syn_retry_pass

Description SYN Retry Passed

Type: number

Format: counter

syn_retry_reset

Description SYN Retry Timeout Reset

Type: number

Format: counter

syn_retry_rto_fail

Description SYN Retry RTO Dropped

Type: number

Format: counter

syn_retry_rto_pass

Description SYN Retry RTO Passed

Type: number

Format: counter

syn_retry_rto_progress

Description SYN Retry RTO Progress

Type: number

Format: counter

syn_retry_timeout

Description SYN Retry Timeout

Type: number

Format: counter

syn_tfo_rcv

Description SYN TFO Received

Type: number

Format: counter

synack_multiple_attempts_per_ip_detected

Description SYNACK Multiple Attempts Per IP Detected

Type: number

Format: counter

synack_reset_sent

Description SYNACK Reset Sent

Type: number

Format: counter

tcp_ack_data_drop

Description TCP ACK with Data Dropped

Type: number

Format: counter

tcp_ack_data_fwd

Description TCP ACK with Data Forward

Type: number

Format: counter

tcp_ack_data_rcvd

Description TCP ACK with Data Received

Type: number

Format: counter

tcp_ack_drop

Description TCP ACK Dropped

Type: number

Format: counter

tcp_ack_fwd

Description TCP ACK Forward

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_auth_drop

Description TCP Auth Dropped

Type: number

Format: counter

tcp_auth_drop_ack

Description TCP Auth Dropped: ACK

Type: number

Format: counter

tcp_auth_drop_ack_fail_auth

Description TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

tcp_auth_drop_ack_pass_auth

Description TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

tcp_auth_drop_ack_xmit

Description TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

tcp_auth_drop_rst

Description TCP Auth Dropped: RST

Type: number

Format: counter

tcp_auth_drop_rst_fail_auth

Description TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

tcp_auth_drop_rst_pass_auth

Description TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

tcp_auth_drop_rst_xmit

Description TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

tcp_auth_drop_syn

Description TCP Auth Dropped: SYN

Type: number

Format: counter

tcp_auth_resp

Description TCP Auth Responded

Type: number

Format: counter

tcp_auth_rst

Description TCP Auth Reset

Type: number

Format: counter

tcp_cwr_drop

Description TCP CWR Dropped

Type: number

Format: counter

tcp_cwr_fwd

Description TCP CWR Forward

Type: number

Format: counter

tcp_cwr_rcvd

Description TCP CWR Received

Type: number

Format: counter

tcp_ece_drop

Description TCP ECE Dropped

Type: number

Format: counter

tcp_ece_fwd

Description TCP ECE Forward

Type: number

Format: counter

tcp_ece_rcvd

Description TCP ECE Received

Type: number

Format: counter

tcp_empty_ack_drop

Description TCP Empty ACK Dropped

Type: number

Format: counter

tcp_empty_ack_fwd

Description TCP Empty ACK Forward

Type: number

Format: counter

tcp_empty_ack_rcvd

Description TCP Empty ACK Received

Type: number

Format: counter

tcp_fin_ack_drop

Description TCP FIN ACK Dropped

Type: number

Format: counter

tcp_fin_ack_fwd

Description TCP FIN ACK Forward

Type: number

Format: counter

tcp_fin_ack_rcvd

Description TCP FIN ACK Received

Type: number

Format: counter

tcp_fin_drop

Description TCP FIN Dropped

Type: number

Format: counter

tcp_fin_fwd

Description TCP FIN Forward

Type: number

Format: counter

tcp_fin_psh_ack_drop

Description TCP FIN PSH ACK Drop

Type: number

Format: counter

tcp_fin_psh_ack_fwd

Description TCP FIN PSH ACK Forward

Type: number

Format: counter

tcp_fin_psh_ack_rcvd

Description TCP FIN PSH ACK Received

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_psh_ack_drop

Description TCP PSH ACK Dropped

Type: number

Format: counter

tcp_psh_ack_fwd

Description TCP PSH ACK Forward

Type: number

Format: counter

tcp_psh_ack_rcvd

Description TCP PSH ACK Received

Type: number

Format: counter

tcp_psh_drop

Description TCP PSH Dropped

Type: number

Format: counter

tcp_psh_fwd

Description TCP PSH Forward

Type: number

Format: counter

tcp_psh_rcvd

Description TCP PSH Received

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP SYN Retransmit Exceeded Blacklist

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP SYN Retransmit Exceeded Drop

Type: number

Format: counter

tcp_rst_ack_drop

Description TCP RST ACK Dropped

Type: number

Format: counter

tcp_rst_ack_fwd

Description TCP RST ACK Forward

Type: number

Format: counter

tcp_rst_ack_rcvd

Description TCP RST ACK Received

Type: number

Format: counter

tcp_rst_drop

Description TCP RST Dropped

Type: number

Format: counter

tcp_rst_fwd

Description TCP RST Forward

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_syn_ack_drop

Description TCP SYN ACK Dropped

Type: number

Format: counter

tcp_syn_ack_fwd

Description TCP SYN ACK Forward

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_fwd

Description SYN Forward

Type: number

Format: counter

tcp_syn_rcvd

Description TCP Inbound SYN Received

Type: number

Format: counter

tcp_urg_drop

Description TCP URG Dropped

Type: number

Format: counter

tcp_urg_fwd

Description TCP URG Forward

Type: number

Format: counter

tcp_urg_rcvd

Description TCP URG Received

Type: number

Format: counter

unauth_drop

Description TCP Unauth Dropped

Type: number

Format: counter

wellknown_sport_drop

Description TCP SrcPort Wellknown

Type: number

Format: counter

zero_window_excd

Description Zero-Window Exceeded

Type: number

Format: counter

2.33.493 ddos tcp-zone-port stats

Statistics for the object tcp-zone-port

tcp-zone-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*tcp-zone-port-list*
Collection URI	/axapi/v3/ddos/tcp-zone-port
Element Name	tcp-zone-port
Element URI	/axapi/v3/ddos/tcp-zone-port/stats
Element Attributes	tcp-zone-port_attributes
Partition Visibility	None
Schema	`tcp-zone-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/tcp-zone-port

tcp-zone-port attributes

Create List

POST

/axapi/v3/ddos/tcp-zone-port

tcp-zone-port attributes

Get Object

GET

/axapi/v3/ddos/tcp-zone-port/stats

tcp-zone-port attributes

Get List

GET

/axapi/v3/ddos/tcp-zone-port

tcp-zone-port-list

Modify Object

POST

/axapi/v3/ddos/tcp-zone-port/stats

tcp-zone-port attributes

Replace Object

PUT

/axapi/v3/ddos/tcp-zone-port/stats

tcp-zone-port attributes

Replace List

PUT

/axapi/v3/ddos/tcp-zone-port

tcp-zone-port-list

Delete Object

DELETE

/axapi/v3/ddos/tcp-zone-port/stats

tcp-zone-port attributes

tcp-zone-port-list

tcp-zone-port-list is **JSON List** of *tcp-zone-port attributes*

```
tcp-zone-port-list : [
        { tcp-zone-port attributes },
        { tcp-zone-port attributes },
        ...
    ]
```

tcp-zone-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ack_auth_fail

Description ACK Retry Dropped

Type: number

Format: counter

ack_retry_blacklist

Description ACK Retry Timeout Blacklisted

Type: number

Format: counter

ack_retry_gap_drop

Description ACK Retry Retry-Gap Dropped

Type: number

Format: counter

ack_retry_init

Description ACK Retry Init

Type: number

Format: counter

ack_retry_pass

Description ACK Retry Passed

Type: number

Format: counter

ack_retry_reset

Description ACK Retry Timeout Reset

Type: number

Format: counter

ack_retry_rto_fail

Description ACK Retry RTO Dropped

Type: number

Format: counter

ack_retry_rto_pass

Description ACK Retry RTO Passed

Type: number

Format: counter

ack_retry_rto_progress

Description ACK Retry RTO Progress

Type: number

Format: counter

ack_retry_timeout

Description ACK Retry Timeout

Type: number

Format: counter

all_src_session_reset

Description Session Reset for All Src Upon Level Escalation

Type: number

Format: counter

auth_drop

Description TCP Auth Dropped

Type: number

Format: counter

auth_resp

Description TCP Auth Responded

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

clear_session_upon_deescalation

Description Clear Session Upon De-escalation to Level 0

Type: number

Format: counter

conn_close

Description Connections Closed

Type: number

Format: counter

conn_close_half_open

Description Half Open Connections Closed

Type: number

Format: counter

conn_close_w_fin

Description FIN Connections Closed

Type: number

Format: counter

conn_close_w_idle

Description Idle Connections Closed

Type: number

Format: counter

conn_close_w_rst

Description RST Connections Closed

Type: number

Format: counter

conn_create_from_ack

Description Connections Created From ACK

Type: number

Format: counter

conn_create_from_syn

Description Connections Created From SYN

Type: number

Format: counter

conn_create_from_synack

Description Connections Created From SYNACK

Type: number

Format: counter

conn_ofo_rate_excd

Description TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

conn_prate_excd

Description TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

conn_rexmit_rate_excd

Description TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

conn_zwindow_rate_excd

Description TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

create_conn_non_syn_dropped

Description Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

current_es_level

Description Current Escalation Level

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

dst_hw_drop_inserted

Description Dst Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_removed

Description Dst Hardware Drop Rules Removed

Type: number

Format: counter

dst_tcp_conn_half_open_timeout

Description Half Open Connections Timeout

Type: number

Format: counter

dst_tcp_conn_half_open_timeout_rst_sent

Description Half Open Connections Timeout RST Sent

Type: number

Format: counter

dst_tcp_sess_aged_rst_sent

Description Sessions Aged Out RST Sent

Type: number

Format: counter

dynamic_count_warn

Description dynamic-entry-count warning send

Type: number

Format: counter

ew_inbound_port_byte_drop

Description East-West Inbound Bytes Dropped

Type: number

Format: counter

ew_inbound_port_byte_rcv

Description East-West Inbound Bytes Recevied

Type: number

Format: counter

ew_inbound_port_byte_sent

Description East-West Inbound Bytes Forwarded

Type: number

Format: counter

ew_inbound_port_drop

Description East-West Inbound Packets Dropped

Type: number

Format: counter

ew_inbound_port_rcv

Description East-West Inbound Packets Received

Type: number

Format: counter

ew_inbound_port_sent

Description East-West Inbound Packets Forwarded

Type: number

Format: counter

ew_outbound_port_byte_drop

Description East-West Outbound Bytes Forwarded

Type: number

Format: counter

ew_outbound_port_byte_rcv

Description East-West Outbound Bytes Recevied

Type: number

Format: counter

ew_outbound_port_byte_sent

Description East-West Outbound Bytes Dropped

Type: number

Format: counter

ew_outbound_port_drop

Description East-West Outbound Packets Dropped

Type: number

Format: counter

ew_outbound_port_rcv

Description East-West Outbound Packets Received

Type: number

Format: counter

ew_outbound_port_sent

Description East-West Outbound Packets Forwarded

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action WL

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

hybrid_auth_auth_no_match

Description SYN Auth Hybrid Auth No Match Drop

Type: number

Format: counter

hybrid_auth_auth_no_match_ack_rcv

Description SYN Auth Hybrid Auth No Match Drop: ACK Received

Type: number

Format: counter

hybrid_auth_auth_no_match_rst_rcv

Description SYN Auth Hybrid Auth No Match Drop: RST Received

Type: number

Format: counter

hybrid_auth_entry_aged_out

Description SYN Auth Hybrid Entry Aged Out

Type: number

Format: counter

hybrid_auth_filter_full

Description SYN Auth Hybrid Filter Full

Type: number

Format: counter

hybrid_auth_invalid_fail

Description SYN Auth Hybrid Invalid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_invalid_pass

Description SYN Auth Hybrid Invalid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_invalid_sa_sent

Description SYN Auth Hybrid Invalid SYNACK Sent

Type: number

Format: counter

hybrid_auth_lookup_fail

Description SYN Auth Hybrid Lookup Fail

Type: number

Format: counter

hybrid_auth_method_change

Description SYN Auth Hybrid Method Change

Type: number

Format: counter

hybrid_auth_unknown_fail

Description SYN Auth Hybrid Unknown Auth Fail

Type: number

Format: counter

hybrid_auth_unknown_pass

Description SYN Auth Hybrid Unknown Auth Pass

Type: number

Format: counter

hybrid_auth_valid_fail

Description SYN Auth Hybrid Valid SYNACK Auth Fail

Type: number

Format: counter

hybrid_auth_valid_pass

Description SYN Auth Hybrid Valid SYNACK Auth Pass

Type: number

Format: counter

hybrid_auth_valid_sa_sent

Description SYN Auth Hybrid Valid SYNACK Sent

Type: number

Format: counter

ip_filtering_bl

Description IP Filtering Policy: Blacklisted

Type: number

Format: counter

ip_filtering_drop

Description IP Filtering Policy: Dropped

Type: number

Format: counter

no_policy_class_list_match

Description No Policy Class-list Match

Type: number

Format: counter

no_route_drop

Description No Route Dropped

Type: number

Format: counter

out_of_seq_excd

Description Out-Of-Seq Exceeded

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_src_escalation

Description Src Escalation

Type: number

Format: counter

port_syn_rate_exceed

Description TCP SYN Rate Exceeded

Type: number

Format: counter

port_synack_rate_exceed

Description TCP SYNACK Rate Exceeded

Type: number

Format: counter

prog_conn_exceed_bl

Description Connection: Violation Exceed Blacklisted

Type: number

Format: counter

prog_conn_exceed_drop

Description Connection: Violation Exceed Dropped

Type: number

Format: counter

prog_conn_exceed_reset

Description Connection: Violation Exceed Reset

Type: number

Format: counter

prog_conn_rcvd_exceed

Description Connection: Received Exceed

Type: number

Format: counter

prog_conn_rcvd_sent_ratio_exceed

Description Connection: Reveived to Sent Ratio Exceed

Type: number

Format: counter

prog_conn_samples

Description Sample Collected: Connnection

Type: number

Format: counter

prog_conn_samples_processed

Description Sample Processed: Connnection

Type: number

Format: counter

prog_conn_sent_exceed

Description Connection: Sent Exceed

Type: number

Format: counter

prog_conn_time_exceed

Description Connection: Time Exceed

Type: number

Format: counter

prog_exceed_bl

Description Req-Resp: Violation Exceed Blacklisted

Type: number

Format: counter

prog_exceed_drop

Description Req-Resp: Violation Exceed Dropped

Type: number

Format: counter

prog_exceed_reset

Description Req-Resp: Violation Exceed Reset

Type: number

Format: counter

prog_first_req_time_exceed

Description Req-Resp: First Request Time Exceed

Type: number

Format: counter

prog_query_exceed

Description Req-Resp: Client Query Time Exceed

Type: number

Format: counter

prog_req_resp_time_exceed

Description Req-Resp: Request to Response Time Exceed

Type: number

Format: counter

prog_req_samples

Description Sample Collected: Req-Resp

Type: number

Format: counter

prog_req_samples_processed

Description Sample Processed: Req-Resp

Type: number

Format: counter

prog_request_len_exceed

Description Req-Resp: Request Length Exceed

Type: number

Format: counter

prog_resp_pkt_rate_exceed

Description Req-Resp: Response Packet Rate Exceed

Type: number

Format: counter

prog_resp_req_time_exceed

Description Req-Resp: Response to Request Time Exceed

Type: number

Format: counter

prog_response_len_exceed

Description Req-Resp: Response Length Exceed

Type: number

Format: counter

prog_think_exceed

Description Req-Resp: Server Think Time Exceed

Type: number

Format: counter

prog_win_exceed_bl

Description Time Window: Violation Exceed Blacklisted

Type: number

Format: counter

prog_win_exceed_drop

Description Time Window: Violation Exceed Dropped

Type: number

Format: counter

prog_win_exceed_reset

Description Time Window: Violation Exceed Reset

Type: number

Format: counter

prog_win_rcvd_exceed

Description Time Window: Received Exceed

Type: number

Format: counter

prog_win_rcvd_sent_ratio_exceed

Description Time Window: Received to Sent Exceed

Type: number

Format: counter

prog_win_samples

Description Sample Collected: Time Window

Type: number

Format: counter

prog_win_samples_processed

Description Sample Processed: Time Window

Type: number

Format: counter

prog_win_sent_exceed

Description Time Window: Sent Exceed

Type: number

Format: counter

retransmit_excd

Description Retransmit Exceeded

Type: number

Format: counter

rst_cookie_fail

Description RST Cookie Failed

Type: number

Format: counter

same_sport_dport_drop

Description Same Source and Destination Port Drop

Type: number

Format: counter

secondary_port_conn_limm_exceed

Description Per Addr-Port Conn Limit Exceeded

Type: number

Format: counter

secondary_port_conn_rate_exceed

Description Per Addr-Port Conn Rate Exceeded

Type: number

Format: counter

secondary_port_hit

Description Per Addr-Port Hit

Type: number

Format: counter

secondary_port_kbit_rate_exceed

Description Per Addr-Port KiBit Rate Exceeded

Type: number

Format: counter

secondary_port_kbit_rate_exceed_pkt

Description Per Addr-Port KiBit Rate Exceeded Count

Type: number

Format: counter

secondary_port_pkt_rate_exceed

Description Per Addr-Port Packet Rate Exceeded

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

small_window_excd

Description Small-Window Exceeded

Type: number

Format: counter

small_window_rcv

Description Small-Window Receive

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

src_ack_auth_fail

Description Src ACK Retry Dropped

Type: number

Format: counter

src_ack_retry_blacklist

Description Src ACK Retry Timeout Blacklisted

Type: number

Format: counter

src_ack_retry_gap_drop

Description Src ACK Retry Retry-Gap Dropped

Type: number

Format: counter

src_ack_retry_init

Description Src ACK Retry Init

Type: number

Format: counter

src_ack_retry_reset

Description Src ACK Retry Timeout Reset

Type: number

Format: counter

src_ack_retry_rto_fail

Description Src ACK Retry RTO Dropped

Type: number

Format: counter

src_ack_retry_rto_pass

Description Src ACK Retry RTO Passed

Type: number

Format: counter

src_ack_retry_rto_progress

Description Src ACK Retry RTO Progress

Type: number

Format: counter

src_ack_retry_timeout

Description Src ACK Retry Timeout

Type: number

Format: counter

src_auth_drop

Description Src TCP Auth Dropped

Type: number

Format: counter

src_auth_drop_ack

Description Src TCP Auth Dropped: ACK

Type: number

Format: counter

src_auth_drop_ack_fail_auth

Description Src TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

src_auth_drop_ack_pass_auth

Description Src TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

src_auth_drop_ack_xmit

Description Src TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

src_auth_drop_rst

Description Src TCP Auth Dropped: RST

Type: number

Format: counter

src_auth_drop_rst_fail_auth

Description Src TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

src_auth_drop_rst_pass_auth

Description Src TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

src_auth_drop_rst_xmit

Description Src TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

src_auth_drop_syn

Description Src TCP Auth Dropped: SYN

Type: number

Format: counter

src_conn_ofo_rate_excd

Description Src TCP Conn Out-Of-Seq Rate Exceeded

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src TCP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_conn_rexmit_rate_excd

Description Src TCP Conn Retransmit Rate Exceeded

Type: number

Format: counter

src_conn_zwindow_rate_excd

Description Src TCP Conn Zero-Window Rate Exceeded

Type: number

Format: counter

src_create_conn_non_syn_dropped

Description Src Create Conn with non-SYN Packets Dropped

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action WL

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_hw_drop_inserted

Description Src Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_removed

Description Src Hardware Drop Rules Removed

Type: number

Format: counter

src_learn_overflow

Description Source Dynamic Entry Overflow

Type: number

Format: counter

src_out_of_seq_excd

Description Src Out-Of-Seq Exceeded

Type: number

Format: counter

src_retransmit_excd

Description Src Retransmit Exceeded

Type: number

Format: counter

src_rst_cookie_fail

Description Src RST Cookie Failed

Type: number

Format: counter

src_small_window_excd

Description Src Small-Window Exceeded

Type: number

Format: counter

src_syn_auth_fail

Description Src SYN Auth Failed

Type: number

Format: counter

src_syn_cookie_fail

Description Src SYN Cookie Failed

Type: number

Format: counter

src_syn_cookie_sent

Description Src SYN Cookie Sent

Type: number

Format: counter

src_syn_rate_exceed

Description Src TCP SYN Rate Exceeded

Type: number

Format: counter

src_syn_retry_blacklist

Description Src SYN Retry Timeout Blacklisted

Type: number

Format: counter

src_syn_retry_failed

Description Src SYN Retry Dropped

Type: number

Format: counter

src_syn_retry_gap_drop

Description Src SYN Retry-Gap Dropped

Type: number

Format: counter

src_syn_retry_init

Description Src SYN Retry Init

Type: number

Format: counter

src_syn_retry_reset

Description Src SYN Retry Timeout Reset

Type: number

Format: counter

src_syn_retry_rto_fail

Description Src SYN Retry RTO Dropped

Type: number

Format: counter

src_syn_retry_rto_pass

Description Src SYN Retry RTO Passed

Type: number

Format: counter

src_syn_retry_rto_progress

Description Src SYN Retry RTO Progress

Type: number

Format: counter

src_syn_retry_timeout

Description Src SYN Retry Timeout

Type: number

Format: counter

src_tcp_auth_rst

Description Src TCP Auth Reset

Type: number

Format: counter

src_unauth_drop

Description Src TCP Unauth Dropped

Type: number

Format: counter

src_well_known_port

Description Src TCP SrcPort Wellknown

Type: number

Format: counter

src_zero_window_excd

Description Src Zero-Window Exceeded

Type: number

Format: counter

src_zone_service_entry_aged

Description SrcZoneService Entry Aged

Type: number

Format: counter

src_zone_service_entry_hit

Description SrcZoneService Entry Hit

Type: number

Format: counter

src_zone_service_entry_learned

Description SrcZoneService Entry Learned

Type: number

Format: counter

syn_auth_fail

Description SYN Auth Failed

Type: number

Format: counter

syn_auth_pass

Description SYN Auth Passed

Type: number

Format: counter

syn_auth_rst_ack_drop

Description SYN Auth RST-ACK Dropped

Type: number

Format: counter

syn_cookie_fail

Description SYN Cookie Failed

Type: number

Format: counter

syn_cookie_sent

Description SYN Cookie Sent

Type: number

Format: counter

syn_drop

Description SYN Dropped

Type: number

Format: counter

syn_retry_blacklist

Description SYN Retry Timeout Blacklisted

Type: number

Format: counter

syn_retry_failed

Description SYN Retry Dropped

Type: number

Format: counter

syn_retry_gap_drop

Description SYN Retry-Gap Dropped

Type: number

Format: counter

syn_retry_init

Description SYN Retry Init

Type: number

Format: counter

syn_retry_pass

Description SYN Retry Passed

Type: number

Format: counter

syn_retry_reset

Description SYN Retry Timeout Reset

Type: number

Format: counter

syn_retry_rto_fail

Description SYN Retry RTO Dropped

Type: number

Format: counter

syn_retry_rto_pass

Description SYN Retry RTO Passed

Type: number

Format: counter

syn_retry_rto_progress

Description SYN Retry RTO Progress

Type: number

Format: counter

syn_retry_timeout

Description SYN Retry Timeout

Type: number

Format: counter

syn_tfo_rcv

Description SYN TFO Received

Type: number

Format: counter

synack_multiple_attempts_per_ip_detected

Description SYNACK Multiple Attempts Per IP Detected

Type: number

Format: counter

synack_reset_sent

Description SYNACK Reset Sent

Type: number

Format: counter

tcp_ack_data_drop

Description TCP ACK with Data Dropped

Type: number

Format: counter

tcp_ack_data_fwd

Description TCP ACK with Data Forward

Type: number

Format: counter

tcp_ack_data_rcvd

Description TCP ACK with Data Received

Type: number

Format: counter

tcp_ack_drop

Description TCP ACK Dropped

Type: number

Format: counter

tcp_ack_fwd

Description TCP ACK Forward

Type: number

Format: counter

tcp_ack_rcvd

Description TCP ACK Received

Type: number

Format: counter

tcp_auth_drop_ack

Description TCP Auth Dropped: ACK

Type: number

Format: counter

tcp_auth_drop_ack_fail_auth

Description TCP Auth Dropped: ACK Fail Auth

Type: number

Format: counter

tcp_auth_drop_ack_pass_auth

Description TCP Auth Dropped: ACK Pass Auth

Type: number

Format: counter

tcp_auth_drop_ack_xmit

Description TCP Auth Dropped: ACK Retransmit

Type: number

Format: counter

tcp_auth_drop_rst

Description TCP Auth Dropped: RST

Type: number

Format: counter

tcp_auth_drop_rst_fail_auth

Description TCP Auth Dropped: RST Fail Auth

Type: number

Format: counter

tcp_auth_drop_rst_pass_auth

Description TCP Auth Dropped: RST Pass Auth

Type: number

Format: counter

tcp_auth_drop_rst_xmit

Description TCP Auth Dropped: RST Retransmit

Type: number

Format: counter

tcp_auth_drop_syn

Description TCP Auth Dropped: SYN

Type: number

Format: counter

tcp_auth_rst

Description TCP Auth Reset

Type: number

Format: counter

tcp_cwr_drop

Description TCP CWR Dropped

Type: number

Format: counter

tcp_cwr_fwd

Description TCP CWR Forward

Type: number

Format: counter

tcp_cwr_rcvd

Description TCP CWR Received

Type: number

Format: counter

tcp_ece_drop

Description TCP ECE Dropped

Type: number

Format: counter

tcp_ece_fwd

Description TCP ECE Forward

Type: number

Format: counter

tcp_ece_rcvd

Description TCP ECE Received

Type: number

Format: counter

tcp_empty_ack_drop

Description TCP Empty ACK Dropped

Type: number

Format: counter

tcp_empty_ack_fwd

Description TCP Empty ACK Forward

Type: number

Format: counter

tcp_empty_ack_rcvd

Description TCP Empty ACK Received

Type: number

Format: counter

tcp_fin_ack_drop

Description TCP FIN ACK Dropped

Type: number

Format: counter

tcp_fin_ack_fwd

Description TCP FIN ACK Forward

Type: number

Format: counter

tcp_fin_ack_rcvd

Description TCP FIN ACK Received

Type: number

Format: counter

tcp_fin_drop

Description TCP FIN Dropped

Type: number

Format: counter

tcp_fin_fwd

Description TCP FIN Forward

Type: number

Format: counter

tcp_fin_psh_ack_drop

Description TCP FIN PSH ACK Drop

Type: number

Format: counter

tcp_fin_psh_ack_fwd

Description TCP FIN PSH ACK Forward

Type: number

Format: counter

tcp_fin_psh_ack_rcvd

Description TCP FIN PSH ACK Received

Type: number

Format: counter

tcp_fin_rcvd

Description TCP FIN Received

Type: number

Format: counter

tcp_psh_ack_drop

Description TCP PSH ACK Dropped

Type: number

Format: counter

tcp_psh_ack_fwd

Description TCP PSH ACK Forward

Type: number

Format: counter

tcp_psh_ack_rcvd

Description TCP PSH ACK Received

Type: number

Format: counter

tcp_psh_drop

Description TCP PSH Dropped

Type: number

Format: counter

tcp_psh_fwd

Description TCP PSH Forward

Type: number

Format: counter

tcp_psh_rcvd

Description TCP PSH Received

Type: number

Format: counter

tcp_rexmit_syn_limit_bl

Description TCP SYN Retransmit Exceeded Blacklist

Type: number

Format: counter

tcp_rexmit_syn_limit_drop

Description TCP SYN Retransmit Exceeded Drop

Type: number

Format: counter

tcp_rst_ack_drop

Description TCP RST ACK Dropped

Type: number

Format: counter

tcp_rst_ack_fwd

Description TCP RST ACK Forward

Type: number

Format: counter

tcp_rst_ack_rcvd

Description TCP RST ACK Received

Type: number

Format: counter

tcp_rst_drop

Description TCP RST Dropped

Type: number

Format: counter

tcp_rst_fwd

Description TCP RST Forward

Type: number

Format: counter

tcp_rst_rcvd

Description TCP RST Received

Type: number

Format: counter

tcp_syn_ack_drop

Description TCP SYN ACK Dropped

Type: number

Format: counter

tcp_syn_ack_fwd

Description TCP SYN ACK Forward

Type: number

Format: counter

tcp_syn_ack_rcvd

Description TCP SYN ACK Received

Type: number

Format: counter

tcp_syn_fwd

Description SYN Forward

Type: number

Format: counter

tcp_syn_rcvd

Description TCP Inbound SYN Received

Type: number

Format: counter

tcp_urg_drop

Description TCP URG Dropped

Type: number

Format: counter

tcp_urg_fwd

Description TCP URG Forward

Type: number

Format: counter

tcp_urg_rcvd

Description TCP URG Received

Type: number

Format: counter

unauth_drop

Description TCP Unauth Dropped

Type: number

Format: counter

unauth_src_session_reset

Description Session Reset for Unauthenticated Src

Type: number

Format: counter

wellknown_sport_drop

Description TCP SrcPort Wellknown

Type: number

Format: counter

zero_window_excd

Description Zero-Window Exceeded

Type: number

Format: counter

2.33.494 ddos template

Define a DDOS template

template Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	template
Element URI	/axapi/v3/ddos/template
Element Attributes	template_attributes
Partition Visibility	shared
Schema	`template schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/template

template_attributes

template attributes

dns-list

Type: List

Reference Object: */axapi/v3/ddos/template/dns/{name}*

encap-list

Type: List

Reference Object: */axapi/v3/ddos/template/encap/{encap-tmpl-name}*

http-list

Type: List

Reference Object: */axapi/v3/ddos/template/http/{http-tmpl-name}*

icmp-v4-list

Type: List

Reference Object: */axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}*

icmp-v6-list

Type: List

Reference Object: */axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}*

logging-list

Type: List

Reference Object: */axapi/v3/ddos/template/logging/{logging-tmpl-name}*

other-list

Type: List

Reference Object: */axapi/v3/ddos/template/other/{name}*

sip-list

Type: List

Reference Object: */axapi/v3/ddos/template/sip/{sip-tmpl-name}*

ssl-l4-list

Type: List

Reference Object: */axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}*

tcp-list

Type: List

Reference Object: */axapi/v3/ddos/template/tcp/{name}*

udp-list

Type: List

Reference Object: */axapi/v3/ddos/template/udp/{name}*

logging-list

Specification	Value
Type	*list*
Block object keys	

enable-action-logging

Description Log action taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-format-cef

Description Log in CEF format

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-format-custom

Description Customize log format

Type: string

Format: string-rlx

Maximum Length: 512 characters

Maximum Length: 1 characters

logging-tmpl-name

Description DDOS Logging Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: default

use-obj-name

Description Show obj name instead of ip in the log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

encap-list

Specification	Value
Type	*list*
Block object keys	

encap-tmpl-name

Description DDOS Tunnel Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

preserve-source-ip

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap

Description: tunnel-encap is a **JSON Block**. Please see below for *encap-list_tunnel-encap*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

encap-list_tunnel-encap

Specification	Value
Type	*object*

gre-cfg

Description: gre-cfg is a **JSON Block**. Please see below for *encap-list_tunnel-encap_gre-cfg*

Type: Object

ip-cfg

Description: ip-cfg is a **JSON Block**. Please see below for *encap-list_tunnel-encap_ip-cfg*

Type: Object

encap-list_tunnel-encap_ip-cfg

Specification	Value
Type	*object*

always

Description: always is a **JSON Block**. Please see below for *encap-list_tunnel-encap_ip-cfg_always*

Type: Object

ip-encap

Description Enable Tunnel encap for IP packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encap-list_tunnel-encap_ip-cfg_always

Specification	Value
Type	*object*

ipv4-addr

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

ipv6-addr

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

encap-list_tunnel-encap_gre-cfg

Specification	Value
Type	*object*

gre-always

Description: gre-always is a **JSON Block**. Please see below for *encap-list_tunnel-encap_gre-cfg_gre-always*

Type: Object

gre-encap

Description Enable Tunnel encap for GRE packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encap-list_tunnel-encap_gre-cfg_gre-always

Specification	Value
Type	*object*

gre-ipv4

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

gre-ipv6

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

key-ipv4

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

key-ipv6

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

ssl-l4-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'drop': drop; 'reset': reset;

Type: string

Supported Values: drop, reset

Default: drop

allow-non-tls

Description Allow Non-TLS (SSLv3 and lower) traffic (Warning: security may be compromised)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-config-cfg

Description: auth-config-cfg is a **JSON Block**. Please see below for *ssl-l4-list_auth-config-cfg*

Type: Object

cert-cfg

Description: cert-cfg is a **JSON Block**. Please see below for *ssl-l4-list_cert-cfg*

Type: Object

disable

Description Disable this template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *ssl-l4-list_multi-pu-threshold-distribution*

Type: Object

renegotiation

Description Configure renegotiation limiting for SSL (Number of renegotiation allowed)

Type: number

Range: 0-7

request-rate-limit

Description Configure rate limiting for SSL

Type: number

Range: 1-16000000

server-name-list

Type: List

ssl-handshake-policy

Description: ssl-handshake-policy is a **JSON Block**. Please see below for *ssl-l4-list_ssl-handshake-policy*

Type: Object

Reference Object: */axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy*

ssl-l4-tmpl-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-traffic-check

Description: ssl-traffic-check is a **JSON Block**. Please see below for *ssl-l4-list_ssl-traffic-check*

Type: Object

Reference Object: */axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssl-l4-list_cert-cfg

Specification	Value
Type	*object*

cert

Description SSL certificate

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

key

Description SSL key

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

key-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED password string)

key-passphrase

Description Password Phrase

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4-list_auth-config-cfg

Specification	Value
Type	*object*

auth-handshake-fail-action

Description 'blacklist-src': Blacklist-src when auth handshake fails;

Type: string

Supported Values: blacklist-src

timeout

Description Connection timeout

Type: number

Range: 1-31

Default: 5

trials

Description Number of failed handshakes

Type: number

Range: 0-15

Default: 5

ssl-l4-list_ssl-traffic-check

Specification	Value
Type	*object*

check-resumed-connection

Description Apply checks to SSL connections initialized by ACK packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

header-action

Description 'drop': Drop packets with bad ssl header; 'ignore': Forward packets with bad ssl header;

Type: string

Supported Values: drop, ignore

header-inspection

Description Inspect ssl header

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssl-l4-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

ssl-l4-list_ssl-handshake-policy

Specification	Value
Type	*object*

action

Description 'drop': Drop packets (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist source IP;

Type: string

Supported Values: drop, reset, blacklist-src

Mutual Exclusion: action and ssl-handshake-policy-action-list-name are mutually exclusive

cipher-suites-limit

Description Set cipher suites limit

Type: number

Range: 1-600

client-extensions-limit

Description Set client extensions limit

Type: number

Range: 1-600

clienthello-to-appdata-timeout

Description Set maximum timeout seconds from ClientHello to Application-Data

Type: number

Range: 1-600

finished-to-appdata-timeout

Description Set maximum timeout seconds from Handshake finished to Application-Data

Type: number

Range: 1-600

src-handshaking-conn-limit

Description Set handshaking connection limit

Type: number

Range: 1-16000000

ssl-handshake-policy-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-handshake-policy-action-list-name and action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssl-l4-list_server-name-list

Specification	Value
Type	*list*
Block object keys	

server-cert

Description Server Certificate associated to SNI (Server Certificate Name)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED password string)

server-key

Description Server Private Key associated to SNI (Server Private Key Name)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-name

Description Server name indication in Client hello extension (Server name String)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-passphrase

Description Password Phrase

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

dns-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'drop': Drop packets (Default action); 'reset': Send Client RST for TCP connections;

Type: string

Supported Values: drop, reset

Default: drop

alias-rate-threshold

Description ALIAS(Record Type 65300) Query Forwarding Rate Limit (Only for DNS Cache Mode)

Type: number

Range: 1-16000000

allow-query-class

Description: allow-query-class is a **JSON Block**. Please see below for *dns-list_allow-query-class*

Type: Object

allow-record-type

Description: allow-record-type is a **JSON Block**. Please see below for *dns-list_allow-record-type*

Type: Object

dns-any-check

Description Drop DNS queries of Type ANY

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-auth-cfg

Description: dns-auth-cfg is a **JSON Block**. Please see below for *dns-list_dns-auth-cfg*

Type: Object

dns-request-rate-limit

Description: dns-request-rate-limit is a **JSON Block**. Please see below for *dns-list_dns-request-rate-limit*

Type: Object

dnssec-wildcard-rate-threshold

Description DNSSEC Wildcard Query Forwarding Rate Limit (only for DNS Cache Mode)

Type: number

Range: 1-16000000

domain-group-name

Description Apply a domain-group to the DNS template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

domain-group-rate-exceed-action

Description 'drop': Drop the query (default); 'tunnel-encap-packet': Encapsulate the query and send on a tunnel;

Type: string

Supported Values: drop, tunnel-encap-packet

Default: drop

domain-group-rate-per-service

Description Enable per service domain rate checking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encap-template

Description DDOS encap template to sepcify the tunnel endpoint

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

fqdn-cfg

Type: List

fqdn-label-count

Description Maximum number of length of FQDN labels

Type: number

Range: 1-10

fqdn-label-len-cfg

Type: List

malformed-query-check

Description: malformed-query-check is a **JSON Block**. Please see below for *dns-list_malformed-query-check*

Type: Object

Reference Object: */axapi/v3/ddos/template/dns/{name}/malformed-query-check*

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *dns-list_multi-pu-threshold-distribution*

Type: Object

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nxdomain-cfg

Description: nxdomain-cfg is a **JSON Block**. Please see below for *dns-list_nxdomain-cfg*

Type: Object

on-no-match

Description 'permit': permit; 'deny': deny (default);

Type: string

Supported Values: permit, deny

Default: deny

query-rate-threshold-for-cache-serving

Description This is for DNS cache mode only, it sets a DNS query rate threshold such that queries under the rate threshold would be forward

Type: number

Range: 1-16000000

symtimeout-cfg

Description: symtimeout-cfg is a **JSON Block**. Please see below for *dns-list_symtimeout-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-list_dns-request-rate-limit

Specification	Value
Type	*object*

type

Description: type is a **JSON Block**. Please see below for *dns-list_dns-request-rate-limit_type*

Type: Object

dns-list_dns-request-rate-limit_type

Specification	Value
Type	*object*

A-cfg

Description: A-cfg is a **JSON Block**. Please see below for *dns-list_dns-request-rate-limit_type_A-cfg*

Type: Object

AAAA-cfg

Description: AAAA-cfg is a **JSON Block**. Please see below for *dns-list_dns-request-rate-limit_type_AAAA-cfg*

Type: Object

CNAME-cfg

Description: CNAME-cfg is a **JSON Block**. Please see below for *dns-list_dns-request-rate-limit_type_CNAME-cfg*

Type: Object

MX-cfg

Description: MX-cfg is a **JSON Block**. Please see below for *dns-list_dns-request-rate-limit_type_MX-cfg*

Type: Object

NS-cfg

Description: NS-cfg is a **JSON Block**. Please see below for *dns-list_dns-request-rate-limit_type_NS-cfg*

Type: Object

SRV-cfg

Description: SRV-cfg is a **JSON Block**. Please see below for *dns-list_dns-request-rate-limit_type_SRV-cfg*

Type: Object

dns-type-cfg

Type: List

dns-list_dns-request-rate-limit_type_SRV-cfg

Specification	Value
Type	*object*

SRV

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-srv-rate

Description DNS request rate

Type: number

Range: 1-16000000

dns-list_dns-request-rate-limit_type_CNAME-cfg

Specification	Value
Type	*object*

CNAME

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-cname-rate

Description

Type: number

Range: 1-16000000

dns-list_dns-request-rate-limit_type_dns-type-cfg

Specification	Value
Type	*list*
Block object keys	

dns-request-type

Description Other type value

Type: number

Range: 1-65535

dns-request-type-rate

Description request rate limit

Type: number

Range: 1-16000000

dns-list_dns-request-rate-limit_type_AAAA-cfg

Specification	Value
Type	*object*

AAAA

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-aaaa-rate

Description

Type: number

Range: 1-16000000

dns-list_dns-request-rate-limit_type_A-cfg

Specification	Value
Type	*object*

A

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-a-rate

Description

Type: number

Range: 1-16000000

dns-list_dns-request-rate-limit_type_MX-cfg

Specification	Value
Type	*object*

MX

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-mx-rate

Description

Type: number

Range: 1-16000000

dns-list_dns-request-rate-limit_type_NS-cfg

Specification	Value
Type	*object*

NS

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-ns-rate

Description

Type: number

Range: 1-16000000

dns-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

dns-list_nxdomain-cfg

Specification	Value
Type	*object*

dns-nxdomain-rate

Description Limiting rate

Type: number

Range: 1-16000000

dns-nxdomain-rate-limit

Description DNS NXDOMAIN Rate Limiting (SRC support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-nxdomain-rate-limit-action

Description 'drop': Drop queries if rate is exceeded; 'black-list': Black-List source if rate is exceeded;

Type: string

Supported Values: drop, black-list

dns-list_fqdn-cfg

Specification	Value
Type	*list*
Block object keys	

by

Description 'domain-name': Domain Name; 'src-ip': Source IP address; 'both': Use both Domain Name and Source IP address for rate-limiting;

Type: string

Supported Values: domain-name, src-ip, both

Mutual Exclusion: by and per are mutually exclusive

dns-fqdn-rate

Description Limiting rate (Range: 5-8000 for FQDN domain based rate limiting, 5-16000000 for FQDN label count based rate limiting)

Type: number

Range: 5-16000000

dns-fqdn-rate-limit

Description DNS Rate limiting on the basis of FQDN

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fqdn-rate-label-count

Description FQDN label count (Range: 1-8)

Type: number

Range: 1-8

fqdn-rate-suffix

Description Suffix count

Type: number

Range: 1-5

fqdn-rate-suffix-by

Description Number of suffixes

Type: number

Range: 1-5

per

Description 'domain-name': Domain Name; 'src-ip': Source IP address; 'label-count': FQDN label count;

Type: string

Supported Values: domain-name, src-ip, label-count

Mutual Exclusion: per and by are mutually exclusive

per-domain-per-src-ip

Description Use both Domain Name and Source IP address for rate-limiting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-list_dns-auth-cfg

Specification	Value
Type	*object*

dns-auth

Description DNS authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-auth-type

Description 'udp': Drop DNS request and monitor client retry; 'force-tcp': Force DNS request over TCP;

Type: string

Supported Values: udp, force-tcp

force-tcp-ignore-client-source-port

Description Allow client to retransmit DNS request using different source port during udp-auth (supported in asymmetric mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force-tcp-min-retry-gap

Description Minimum sec gap in between 2 dns-udp packets for auth to pass

Type: number

Range: 1-15

force-tcp-timeout

Description TCP authentication timeout in seconds

Type: number

Range: 1-16

min-retry-gap

Description Optional minimum sec gap in between 2 dns-udp packets for auth to pass, unit is specified by min-retry-gap-interval

Type: number

Range: 1-80

min-retry-gap-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

udp-timeout

Description UDP authentication timeout in seconds

Type: number

Range: 1-16

udp-timeout-val-only

Description UDP authentication timeout in seconds

Type: number

Range: 1-16

with-udp-auth

Description Monitor client retry

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-list_symtimeout-cfg

Specification	Value
Type	*object*

sym-timeout

Description Timeout for DNS Symmetric session

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sym-timeout-value

Description Session timeout value in seconds

Type: number

Range: 1-31

dns-list_allow-query-class

Specification	Value
Type	*object*

allow-any-query-class

Description ANY query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-chaos-query-class

Description CHAOS query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-csnet-query-class

Description CSNET query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-hesiod-query-class

Description HESIOD query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-internet-query-class

Description INTERNET query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-none-query-class

Description NONE query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-list_fqdn-label-len-cfg

Specification	Value
Type	*list*
Block object keys	

fqdn-label-length

Description Maximum FQDN label length

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fqdn-label-suffix

Description Number of suffixes

Type: number

Range: 1-5

label-length

Description Maximum length of FQDN label

Type: number

Range: 1-63

dns-list_allow-record-type

Specification	Value
Type	*object*

allow-a-type

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-aaaa-type

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-cname-type

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-mx-type

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-ns-type

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-srv-type

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

record-num-cfg

Type: List

dns-list_allow-record-type_record-num-cfg

Specification	Value
Type	*list*
Block object keys	

allow-num-type

Description Other record type value

Type: number

Range: 1-65535

dns-list_malformed-query-check

Specification	Value
Type	*object*

non-query-opcode-check

Description 'disable': When malform check is enabled, TPS always drops DNS query with non query opcode, this option disables this opcode check;

Type: string

Supported Values: disable

skip-multi-packet-check

Description Bypass DNS fragmented and TCP segmented Queries(Default: dropped)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

validation-type

Description 'basic-header-check': Basic header validation for DNS TCP/UDP queries; 'extended-header-check': Extended header/query validation for DNS TCP/UDP queries; 'disable': Disable Malform query validation for DNS TCP/UDP;

Type: string

Supported Values: basic-header-check, extended-header-check, disable

icmp-v4-list

Specification	Value
Type	*list*
Block object keys	

icmp-tmpl-name

Description DDOS ICMPv4 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type-list

Type: List

Reference Object: */axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type/{type-number}*

type-other

Description: type-other is a **JSON Block**. Please see below for *icmp-v4-list_type-other*

Type: Object

Reference Object: */axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type-other*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-v4-list_type-other

Specification	Value
Type	*object*

type-other-deny

Description Deny all other type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-other-deny and type-other-rate are mutually exclusive

type-other-rate

Description Specify rate with other type

Type: number

Range: 1-16000000

Mutual Exclusion: type-other-rate and type-other-deny are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-v4-list_type-list

Specification	Value
Type	*list*
Block object keys	

code

Type: List

code-other

Description: code-other is a **JSON Block**. Please see below for *icmp-v4-list_type-list_code-other*

Type: Object

type-deny

Description Reject this ICMP type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-deny, type-rate, and code-other-rate are mutually exclusive

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

type-rate

Description Specify the whole rate with this type

Type: number

Range: 1-16000000

Mutual Exclusion: type-rate and type-deny are mutually exclusive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-v4-list_type-list_code

Specification	Value
Type	*list*
Block object keys	

code-number

Description Specify the ICMP code

Type: number

Range: 0-255

code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

icmp-v4-list_type-list_code-other

Specification	Value
Type	*object*

code-other-rate

Description Specify rate with other code

Type: number

Range: 1-16000000

Mutual Exclusion: code-other-rate and type-deny are mutually exclusive

tcp-list

Specification	Value
Type	*list*
Block object keys	

ack-authentication-synack-reset

Description Enable Reset client TCP SYN+ACK for authentication (DST support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-cfg

Description: action-cfg is a **JSON Block**. Please see below for *tcp-list_action-cfg*

Type: Object

action-on-ack-rto-retry-count

Description Take action if action-on-ack RTO-authentication fail over retry time(default:5)

Type: number

Range: 2-10

action-on-syn-rto-retry-count

Description Take action if action-on-syn RTO-authentication fail over retry time(default:5)

Type: number

Range: 2-10

action-syn-cfg

Description: action-syn-cfg is a **JSON Block**. Please see below for *tcp-list_action-syn-cfg*

Type: Object

age

Description Session age in minutes

Type: number

Range: 1-63

allow-syn-otherflags

Description Treat TCP SYN+PSH as a TCP SYN (DST tcp ports support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-synack-skip-authentications

Description Allow create sessions on SYNACK without syn-auth and ack-auth (ASYM Mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-tcp-tfo

Description Allow TCP Fast Open

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

black-list-out-of-seq

Description Black list Src IP if out of seq pkts exceed configured threshold

Type: number

Range: 1-64000

Mutual Exclusion: black-list-out-of-seq and per-conn-out-of-seq-rate-limit are mutually exclusive

black-list-retransmit

Description Black list Src IP if retransmit pkts exceed configured threshold

Type: number

Range: 1-64000

Mutual Exclusion: black-list-retransmit and per-conn-retransmit-rate-limit are mutually exclusive

black-list-zero-win

Description Black list Src IP if zero window pkts exceed configured threshold

Type: number

Range: 1-250

Mutual Exclusion: black-list-zero-win and per-conn-zero-win-rate-limit are mutually exclusive

conn-rate-limit-on-syn-only

Description Only count SYN-initiated connections towards connection-rate tracking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

create-conn-on-syn-only

Description Enable connection establishment on SYN only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-known-resp-src-port-cfg

Description: drop-known-resp-src-port-cfg is a **JSON Block**. Please see below for *tcp-list_drop-known-resp-src-port-cfg*

Type: Object

dst

Description: dst is a **JSON Block**. Please see below for *tcp-list_dst*

Type: Object

filter-list

Type: List

Reference Object: */axapi/v3/ddos/template/tcp/{name}/filter/{tcp-filter-seq}*

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

per-conn-out-of-seq-rate-action

Description 'drop': Drop packets for out-of-seq rate exceed (Default); 'blacklist-src': help Blacklist-src for out-of-seq rate exceed; 'ignore': help Ignore out-of-seq rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

per-conn-out-of-seq-rate-limit

Description Take action if out-of-seq pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-out-of-seq-rate-limit and black-list-out-of-seq are mutually exclusive

per-conn-pkt-rate-action

Description 'drop': Drop packets for per-conn-pkt-rate exceed (Default); 'blacklist-src': help Blacklist-src for per-conn-pkt-rate exceed; 'ignore': Ignore per-conn-pkt-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

per-conn-pkt-rate-limit

Description Packet rate limit per connection per rate-interval

Type: number

Range: 1-16000000

per-conn-rate-interval

Description '100ms': 100ms; '1sec': 1sec; '10sec': 10sec;

Type: string

Supported Values: 100ms, 1sec, 10sec

Default: 1sec

per-conn-retransmit-rate-action

Description 'drop': Drop packets for retransmit rate exceed (Default); 'blacklist-src': help Blacklist-src for retransmit rate exceed; 'ignore': help Ignore retransmit rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

per-conn-retransmit-rate-limit

Description Take action if retransmit pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-retransmit-rate-limit and black-list-retransmit are mutually exclusive

per-conn-zero-win-rate-action

Description 'drop': Drop packets for zero-win rate exceed (Default); 'blacklist-src': help Blacklist-src for zero-win rate exceed; 'ignore': help Ignore zero-win rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

per-conn-zero-win-rate-limit

Description Take action if zero window pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-zero-win-rate-limit and black-list-zero-win are mutually exclusive

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *tcp-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking*

src

Description: src is a **JSON Block**. Please see below for *tcp-list_src*

Type: Object

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable, send-rst-once

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

synack-rate-limit

Description Config SYNACK rate limit

Type: number

Range: 1-16000000

Mutual Exclusion: synack-rate-limit and track-together-with-syn are mutually exclusive

track-together-with-syn

Description SYNACK will be counted in Dst Syn-rate limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: track-together-with-syn and synack-rate-limit are mutually exclusive

tunnel-encap

Description: tunnel-encap is a **JSON Block**. Please see below for *tcp-list_tunnel-encap*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_tunnel-encap

Specification	Value
Type	*object*

gre-cfg

Description: gre-cfg is a **JSON Block**. Please see below for *tcp-list_tunnel-encap_gre-cfg*

Type: Object

ip-cfg

Description: ip-cfg is a **JSON Block**. Please see below for *tcp-list_tunnel-encap_ip-cfg*

Type: Object

tcp-list_tunnel-encap_ip-cfg

Specification	Value
Type	*object*

always

Description: always is a **JSON Block**. Please see below for *tcp-list_tunnel-encap_ip-cfg_always*

Type: Object

ip-encap

Description Enable Tunnel encapsulation using IP in IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list_tunnel-encap_ip-cfg_always

Specification	Value
Type	*object*

ipv4-addr

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

ipv6-addr

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

preserve-src-ipv4

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

preserve-src-ipv6

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list_tunnel-encap_gre-cfg

Specification	Value
Type	*object*

gre-always

Description: gre-always is a **JSON Block**. Please see below for *tcp-list_tunnel-encap_gre-cfg_gre-always*

Type: Object

gre-encap

Description Enable Tunnel encapsulation using GRE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list_tunnel-encap_gre-cfg_gre-always

Specification	Value
Type	*object*

gre-ipv4

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

gre-ipv6

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

key-ipv4

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

key-ipv6

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

preserve-src-ipv4-gre

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

preserve-src-ipv6-gre

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list_dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *tcp-list_dst_rate-limit*

Type: Object

tcp-list_dst_rate-limit

Specification	Value
Type	*object*

syn-rate-limit

Description: syn-rate-limit is a **JSON Block**. Please see below for *tcp-list_dst_rate-limit_syn-rate-limit*

Type: Object

tcp-list_dst_rate-limit_syn-rate-limit

Specification	Value
Type	*object*

dst-syn-rate-action

Description 'drop': Drop packets for syn-rate exceed (Default); 'ignore': Ignore syn-rate-exceed;

Type: string

Supported Values: drop, ignore

Default: drop

dst-syn-rate-limit

Description

Type: number

Range: 1-16000000

tcp-list_action-cfg

Specification	Value
Type	*object*

action-on-ack

Description Monitor tcp ack for age-out session

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authenticate-only

Description Apply action-on-ack once per source address for authentication purpose

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

min-retry-gap

Description Min gap between 2 ACKs for action-on-ack pass in 100ms interval

Type: number

Range: 1-80

reset

Description Send RST to client

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

rto-authentication

Description Estimate the RTO and apply the exponential back-off for authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description ACK retry timeout in sec

Type: number

Range: 1-31

tcp-list_progression-tracking

Specification	Value
Type	*object*

ignore-TLS-handshake

Description Ignore TLS handshake, support SSL-L4 port only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

mitigation

Description: mitigation is a **JSON Block**. Please see below for *tcp-list_progression-tracking_mitigation*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation*

profiling

Description: profiling is a **JSON Block**. Please see below for *tcp-list_progression-tracking_profiling*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/profiling*

progression-tracking-enabled

Description 'enable-check': Enable Progression Tracking Check;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_progression-tracking_mitigation

Specification	Value
Type	*object*

connection-tracking

Description: connection-tracking is a **JSON Block**. Please see below for *tcp-list_progression-tracking_mitigation_connection-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/connection-tracking*

request-tracking

Description: request-tracking is a **JSON Block**. Please see below for *tcp-list_progression-tracking_mitigation_request-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/request-tracking*

slow-attack

Description: slow-attack is a **JSON Block**. Please see below for *tcp-list_progression-tracking_mitigation_slow-attack*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/slow-attack*

time-window-tracking

Description: time-window-tracking is a **JSON Block**. Please see below for *tcp-list_progression-tracking_mitigation_time-window-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/time-window-tracking*

tcp-list_progression-tracking_mitigation_time-window-tracking

Specification	Value
Type	*object*

progression-tracking-win-enabled

Description 'enable-check': Enable Progression Tracking per Time Window;

Type: string

Supported Values: enable-check

Default: enable-check

progression-tracking-windows-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-windows-action and progression-tracking-windows-action-list-name are mutually exclusive

progression-tracking-windows-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-windows-action-list-name and progression-tracking-windows-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

window-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

window-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

window-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

window-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

window-violation

Description Set the violation threshold

Type: number

Range: 1-255

tcp-list_progression-tracking_mitigation_slow-attack

Specification	Value
Type	*object*

init-request-max-time

Description Set client query time (in unit of 100ms). Suggested value larger than 30 secs

Type: number

Range: 2-6000

init-response-max-time

Description Set server think time (in unit of 100ms). Suggested value larger than 45 secs

Type: number

Range: 2-6000

progression-tracking-slow-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-slow-action and progression-tracking-slow-action-list-name are mutually exclusive

progression-tracking-slow-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-slow-action-list-name and progression-tracking-slow-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

response-pkt-rate-max

Description Set the transferred packets per response

Type: number

Range: 1-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_progression-tracking_mitigation_connection-tracking

Specification	Value
Type	*object*

conn-duration-max

Description Set the maximum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-duration-min

Description Set the minimum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

conn-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

conn-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

conn-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

conn-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

conn-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

conn-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking-conn-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-conn-action and progression-tracking-conn-action-list-name are mutually exclusive

progression-tracking-conn-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-conn-action-list-name and progression-tracking-conn-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-conn-enabled

Description 'enable-check': Enable General Progression Tracking per Connection;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_progression-tracking_mitigation_request-tracking

Specification	Value
Type	*object*

first-request-max-time

Description Set the maximum idle time before the first request (in unit of 100ms)

Type: number

Range: 1-65535

progression-tracking-req-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-req-action and progression-tracking-req-action-list-name are mutually exclusive

progression-tracking-req-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-req-action-list-name and progression-tracking-req-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-req-enabled

Description 'enable-check': Enable General Progression Tracking per Request Response;

Type: string

Supported Values: enable-check

Default: enable-check

request-length-max

Description Set the maximum request length

Type: number

Range: 1-65535

request-length-min

Description Set the minimum request length

Type: number

Range: 1-65535

request-response-model

Description 'enable': Enable Request Response Model (Default); 'disable': Disable Request Response Model;

Type: string

Supported Values: enable, disable

Default: enable

request-to-response-max-time

Description Set the maximum request to response time (in unit of 100ms)

Type: number

Range: 1-65535

response-length-max

Description Set the maximum response length

Type: number

Range: 1-4294967295

response-length-min

Description Set the minimum response length

Type: number

Range: 1-65535

response-to-request-max-time

Description Set the maximum response to request time (in unit of 100ms)

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation

Description Set the violation threshold

Type: number

Range: 1-255

tcp-list_progression-tracking_profiling

Specification	Value
Type	*object*

profiling-connection-life-model

Description Enable auto-config progression tracking learning for connection model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-request-response-model

Description Enable auto-config progression tracking learning for request response model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-time-window-model

Description Enable auto-config progression tracking learning for time window model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-5

tcp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *tcp-list_src_rate-limit*

Type: Object

tcp-list_src_rate-limit

Specification	Value
Type	*object*

syn-rate-limit

Description: syn-rate-limit is a **JSON Block**. Please see below for *tcp-list_src_rate-limit_syn-rate-limit*

Type: Object

tcp-list_src_rate-limit_syn-rate-limit

Specification	Value
Type	*object*

src-syn-rate-action

Description 'drop': Drop packets for syn-rate exceed (Default); 'blacklist-src': Blacklist-src for syn-rate exceed; 'ignore': Ignore syn-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

src-syn-rate-limit

Description

Type: number

Range: 1-16000000

tcp-list_action-syn-cfg

Specification	Value
Type	*object*

action-on-syn

Description Monitor tcp syn for age-out session

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-on-syn-gap

Description Min gap between 2 SYNs for action-on-syn pass in 100ms interval

Type: number

Range: 1-80

action-on-syn-reset

Description Send RST to client

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-on-syn-rto

Description Estimate the RTO and apply the exponential back-off for authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-on-syn-timeout

Description SYN retry timeout in sec

Type: number

Range: 1-31

tcp-list_drop-known-resp-src-port-cfg

Specification	Value
Type	*object*

drop-known-resp-src-port

Description Drop well-known if src-port is less than 1024

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exclude-src-resp-port

Description excluding src port equal destination port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

other-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/template/other/{name}/filter/{other-filter-seq}*

name

Description DDOS OTHER Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

other-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

other-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-seq

Description Sequence number

Type: number

Range: 1-5

other-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

udp-list

Specification	Value
Type	*list*
Block object keys	

age

Description Configure session age(in minutes) for UDP sessions

Type: number

Range: 1-63

drop-known-resp-src-port-cfg

Description: drop-known-resp-src-port-cfg is a **JSON Block**. Please see below for *udp-list_drop-known-resp-src-port-cfg*

Type: Object

drop-ntp-monlist

Description Drop NTP monlist request/response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

filter-list

Type: List

Reference Object: */axapi/v3/ddos/template/udp/{name}/filter/{udp-filter-seq}*

max-payload-size

Description Maximum UDP payload size for each single packet

Type: number

Range: 1-1470

min-payload-size

Description Minimum UDP payload size for each single packet

Type: number

Range: 1-1470

name

Description DDOS UDP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

per-conn-pkt-rate-limit

Description Packet rate limit per connection per rate-interval

Type: number

Range: 1-16000000

per-conn-rate-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

previous-salt-timeout

Description Token-Authentication previous salt-prefix timeout in minutes, default is 1 min

Type: number

Range: 1-10080

Default: 1

public-ipv4-addr

Description IP address

Type: string

Format: ipv4-address

public-ipv6-addr

Description IPV6 address

Type: string

Format: ipv6-address

spoof-detect-cfg

Description: spoof-detect-cfg is a **JSON Block**. Please see below for *udp-list_spoof-detect-cfg*

Type: Object

token-authentication

Description Enable Token Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-formula

Description 'md5_Salt-SrcIp-SrcPort-DstIp-DstPort': md5 of Salt-SrcIp-SrcPort-DstIp-DstPort; 'md5_Salt-DstIp-DstPort': md5 of Salt-DstIp-DstPort; 'md5_Salt-SrcIp-DstIp': md5 of Salt-SrcIp-DstIp; 'md5_Salt-SrcPort-DstPort': md5 of Salt-SrcPort-DstPort; 'md5_Salt-UintDstIp-DstPort': Using the uint value of IP for md5 of Salt-DstIp-DstPort; 'sha1_Salt-SrcIp-SrcPort-DstIp-DstPort': sha1 of Salt-SrcIp-SrcPort-DstIp-DstPort; 'sha1_Salt-DstIp-DstPort': sha1 of Salt-DstIp-DstPort; 'sha1_Salt-SrcIp-DstIp': sha1 of Salt-SrcIp-DstIp; 'sha1_Salt-SrcPort-DstPort': sha1 of Salt-SrcPort-DstPort; 'sha1_Salt-UintDstIp-DstPort': Using the uint value of IP for sha1 of Salt-DstIp-DstPort;

Type: string

Supported Values: md5_Salt-SrcIp-SrcPort-DstIp-DstPort, md5_Salt-DstIp-DstPort, md5_Salt-SrcIp-DstIp, md5_Salt-SrcPort-DstPort, md5_Salt-UintDstIp-DstPort, sha1_Salt-SrcIp-SrcPort-DstIp-DstPort, sha1_Salt-DstIp-DstPort, sha1_Salt-SrcIp-DstIp, sha1_Salt-SrcPort-DstPort, sha1_Salt-UintDstIp-DstPort

token-authentication-hw-assist-disable

Description token-authentication disable hardware assistance

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-public-address

Description The server public IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-salt-prefix

Description token-authentication salt-prefix

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-salt-prefix-curr

Description

Type: number

Range: 1-4294967295

token-authentication-salt-prefix-prev

Description

Type: number

Range: 1-4294967295

tunnel-encap

Description: tunnel-encap is a **JSON Block**. Please see below for *udp-list_tunnel-encap*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

udp-list_tunnel-encap

Specification	Value
Type	*object*

always

Description: always is a **JSON Block**. Please see below for *udp-list_tunnel-encap_always*

Type: Object

gre-always

Description: gre-always is a **JSON Block**. Please see below for *udp-list_tunnel-encap_gre-always*

Type: Object

gre-encap

Description Enable Tunnel encapsulation using GRE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: gre-encap and ip-encap are mutually exclusive

ip-encap

Description Enable Tunnel encapsulation using IP in IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: ip-encap and gre-encap are mutually exclusive

udp-list_tunnel-encap_gre-always

Specification	Value
Type	*object*

gre-ipv4

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

gre-ipv6

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

key-ipv4

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

key-ipv6

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

preserve-src-ipv4-gre

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

preserve-src-ipv6-gre

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-list_tunnel-encap_always

Specification	Value
Type	*object*

ipv4-addr

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

ipv6-addr

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

preserve-src-ipv4

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

preserve-src-ipv6

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-list_spoof-detect-cfg

Specification	Value
Type	*object*

min-retry-gap

Description Optional minimum gap between 2 UDP packets for spoof-detect pass, unit is specified by min-retry-gap-interval

Type: number

Range: 1-80

min-retry-gap-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

spoof-detect

Description Force client to retry on udp

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

spoof-detect-retry-timeout

Description timeout in seconds

Type: number

Range: 1-31

Default: 5

Mutual Exclusion: spoof-detect-retry-timeout and spoof-detect-retry-timeout-val-only are mutually exclusive

spoof-detect-retry-timeout-val-only

Description timeout in seconds

Type: number

Range: 1-31

Default: 5

Mutual Exclusion: spoof-detect-retry-timeout-val-only and spoof-detect-retry-timeout are mutually exclusive

udp-list_drop-known-resp-src-port-cfg

Specification	Value
Type	*object*

drop-known-resp-src-port

Description Drop well-known if src-port is less than 1024

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exclude-src-resp-port

Description excluding src port equal destination port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-5

udp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

http-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'drop': Drop packets for the connection; 'reset': Send RST for the connection;

Type: string

Supported Values: drop, reset

Default: drop

agent-filter

Description: agent-filter is a **JSON Block**. Please see below for *http-list_agent-filter*

Type: Object

challenge-cookie-name

Description Set the cookie name used to send back to client. Default is sto-idd

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: sto-idd

challenge-interval

Description Specify the challenge interval. Default is 8 seconds

Type: number

Range: 1-31

Default: 8

challenge-keep-cookie

Description Keep the challenge cookie from client and forward to backend. Default is do not keep

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

challenge-method

Description 'http-redirect': http-redirect; 'javascript': javascript;

Type: string

Supported Values: http-redirect, javascript

challenge-redirect-code

Description '302': 302 Found; '307': 307 Temporary Redirect;

Type: string

Supported Values: 302, 307

Default: 302

challenge-uri-encode

Description Encode the challenge phrase in uri instead of in http cookie. Default encoded in http cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable

Description Disable this template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disallow-connect-method

Description Do not allow HTTP Connect method (asymmetric mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

filter-header-list

Type: List

Reference Object: */axapi/v3/ddos/template/http/{http-tmpl-name}/filter-header/{http-filter-header-seq}*

http-tmpl-name

Description DDOS HTTP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

idle-timeout

Description Set the the idle timeout value in seconds for HTTP connections

Type: number

Range: 1-63

ignore-zero-payload

Description Don't reset idle timer on packets with zero payload length from clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-http

Description: malformed-http is a **JSON Block**. Please see below for *http-list_malformed-http*

Type: Object

mss-cfg

Description: mss-cfg is a **JSON Block**. Please see below for *http-list_mss-cfg*

Type: Object

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *http-list_multi-pu-threshold-distribution*

Type: Object

non-http-bypass

Description Bypass non-http traffic instead of dropping

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

out-of-order-queue-size

Description Set the number of packets for the out-of-order HTTP queue (asym mode only)

Type: number

Range: 0-15

Default: 3

out-of-order-queue-timeout

Description Set the timeout value in seconds for out-of-order queue in HTTP (asym mode only)

Type: number

Range: 0-15

Default: 3

post-rate-limit

Description Configure rate limiting for HTTP POST request

Type: number

Range: 1-16000000

referer-filter

Description: referer-filter is a **JSON Block**. Please see below for *http-list_referer-filter*

Type: Object

request-header

Description: request-header is a **JSON Block**. Please see below for *http-list_request-header*

Type: Object

request-rate-limit

Description: request-rate-limit is a **JSON Block**. Please see below for *http-list_request-rate-limit*

Type: Object

response-rate-limit

Description: response-rate-limit is a **JSON Block**. Please see below for *http-list_response-rate-limit*

Type: Object

slow-read-drop

Description: slow-read-drop is a **JSON Block**. Please see below for *http-list_slow-read-drop*

Type: Object

use-hdr-ip-cfg

Description: use-hdr-ip-cfg is a **JSON Block**. Please see below for *http-list_use-hdr-ip-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

http-list_request-rate-limit

Specification	Value
Type	*object*

request-rate

Description HTTP request rate limit

Type: number

Range: 1-16000000

uri

Type: List

http-list_request-rate-limit_uri

Specification	Value
Type	*list*
Block object keys	

contains-cfg

Description: contains-cfg is a **JSON Block**. Please see below for *http-list_request-rate-limit_uri_contains-cfg*

Type: Object

ends-cfg

Description: ends-cfg is a **JSON Block**. Please see below for *http-list_request-rate-limit_uri_ends-cfg*

Type: Object

equal-cfg

Description: equal-cfg is a **JSON Block**. Please see below for *http-list_request-rate-limit_uri_equal-cfg*

Type: Object

starts-cfg

Description: starts-cfg is a **JSON Block**. Please see below for *http-list_request-rate-limit_uri_starts-cfg*

Type: Object

http-list_request-rate-limit_uri_equal-cfg

Specification	Value
Type	*object*

url-equals

Description Request rate-limit HTTP URI matching a specified pattern

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

url-equals-rate

Description Request rate limit

Type: number

Range: 1-16000000

http-list_request-rate-limit_uri_starts-cfg

Specification	Value
Type	*object*

url-starts-with

Description Request rate-limit HTTP URI strting with a specified pattern

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

url-starts-with-rate

Description Request rate limit

Type: number

Range: 1-16000000

http-list_request-rate-limit_uri_contains-cfg

Specification	Value
Type	*object*

url-contains

Description Request rate-limit HTTP URI containing a specified pattern

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

url-contains-rate

Description Request rate limit

Type: number

Range: 1-16000000

http-list_request-rate-limit_uri_ends-cfg

Specification	Value
Type	*object*

url-ends-with

Description Request rate-limit HTTP URI ending with a specified pattern

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

url-ends-with-rate

Description Request rate limit

Type: number

Range: 1-16000000

http-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

http-list_malformed-http

Specification	Value
Type	*object*

malformed-http-bad-chunk-mon-enabled

Description Enabling bad chunk monitoring. Default is disabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-http-enabled

Description Enabling ddos malformed http protection. Default value is disabled.

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-http-max-content-length

Description Set the maximum content-length header. Default value is 4294967295 bytes

Type: number

Range: 1-4294967295

Default: 4294967295

malformed-http-max-header-name-size

Description Set the maxinum header name length. Default value is 64.

Type: number

Range: 1-64

Default: 64

malformed-http-max-line-size

Description Set the maximum line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

malformed-http-max-num-headers

Description Set the maximum number of headers. Default value is 90

Type: number

Range: 1-90

Default: 90

malformed-http-max-req-line-size

Description Set the maximum request line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

http-list_request-header

Specification	Value
Type	*object*

timeout

Description

Type: number

Range: 1-63

http-list_agent-filter

Specification	Value
Type	*object*

agent-contains-cfg

Type: List

agent-ends-cfg

Type: List

agent-equals-cfg

Type: List

agent-filter-blacklist

Description Blacklist the source if the user-agent matches

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

agent-starts-cfg

Type: List

http-list_agent-filter_agent-contains-cfg

Specification	Value
Type	*list*
Block object keys	

agent-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_agent-filter_agent-ends-cfg

Specification	Value
Type	*list*
Block object keys	

agent-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_agent-filter_agent-equals-cfg

Specification	Value
Type	*list*
Block object keys	

agent-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_agent-filter_agent-starts-cfg

Specification	Value
Type	*list*
Block object keys	

agent-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_filter-header-list

Specification	Value
Type	*list*
Block object keys	

http-filter-header-blacklist

Description Also blacklist the source when action is taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-count-only

Description Take no action and continue processing the next filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

http-filter-header-seq

Description Sequence number

Type: number

Range: 1-5

http-filter-header-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-whitelist

Description Whitelist the source after filter passes, packets are dropped until then

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

http-list_response-rate-limit

Specification	Value
Type	*object*

obj-size

Description: obj-size is a **JSON Block**. Please see below for *http-list_response-rate-limit_obj-size*

Type: Object

http-list_response-rate-limit_obj-size

Specification	Value
Type	*object*

between-cfg

Type: List

greater-cfg

Type: List

less-cfg

Type: List

http-list_response-rate-limit_obj-size_between-cfg

Specification	Value
Type	*list*
Block object keys	

obj-between-rate

Description Response rate limit

Type: number

Range: 1-16000000

obj-between1

Description Response size configuration

Type: number

Range: 1-16000000

obj-between2

Description Response size configuration

Type: number

Range: 1-16000000

http-list_response-rate-limit_obj-size_greater-cfg

Specification	Value
Type	*list*
Block object keys	

obj-greater

Description Response size configuration

Type: number

Range: 1-16000000

obj-greater-rate

Description Response rate limit

Type: number

Range: 1-16000000

http-list_response-rate-limit_obj-size_less-cfg

Specification	Value
Type	*list*
Block object keys	

obj-less

Description Response size configuration

Type: number

Range: 1-16000000

obj-less-rate

Description Response rate limit

Type: number

Range: 1-16000000

http-list_mss-cfg

Specification	Value
Type	*object*

mss-percent

Description Configure percentage of mss such that if a packet size is below the mss times mss-percent, packet is considered bad.

Type: number

Range: 1-100

mss-timeout

Description Configure DDOS detection based on mss and packet size

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

number-packets

Description Specify percentage of mss. Default is 0, mss-timeout is not enabled.

Type: number

Range: 1-31

http-list_referer-filter

Specification	Value
Type	*object*

ref-filter-blacklist

Description Blacklist the source if the referer matches

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

referer-contains-cfg

Type: List

referer-ends-cfg

Type: List

referer-equals-cfg

Type: List

referer-starts-cfg

Type: List

http-list_referer-filter_referer-equals-cfg

Specification	Value
Type	*list*
Block object keys	

referer-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_referer-filter_referer-starts-cfg

Specification	Value
Type	*list*
Block object keys	

referer-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_referer-filter_referer-contains-cfg

Specification	Value
Type	*list*
Block object keys	

referer-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_referer-filter_referer-ends-cfg

Specification	Value
Type	*list*
Block object keys	

referer-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_slow-read-drop

Specification	Value
Type	*object*

min-window-count

Description Number of packets

Type: number

Range: 1-31

min-window-size

Description minimum window size

Type: number

Range: 1-65535

http-list_use-hdr-ip-cfg

Specification	Value
Type	*object*

l7-hdr-name

Description Set the http header name to parse for client ip. Default is X-Forwarded-For

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: X-Forwarded-For

use-hdr-ip-as-source

Description Mitigate on src ip specified by http header for example X-Forwarded-For header. Default is disabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'drop': Drop packets for sip connection; 'reset': Send RST for sip-tcp connection;

Type: string

Supported Values: drop, reset

Default: drop

dst

Description: dst is a **JSON Block**. Please see below for *sip-list_dst*

Type: Object

filter-header-list

Type: List

Reference Object: */axapi/v3/ddos/template/sip/{sip-tmpl-name}/filter-header/{sip-filter-header-seq}*

idle-timeout

Description Set the the idle timeout value for sip-tcp connections

Type: number

Range: 1-63

ignore-zero-payload

Description Don't reset idle timer on packets with zero payload length from clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-sip

Description: malformed-sip is a **JSON Block**. Please see below for *sip-list_malformed-sip*

Type: Object

Reference Object: */axapi/v3/ddos/template/sip/{sip-tmpl-name}/malformed-sip*

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *sip-list_multi-pu-threshold-distribution*

Type: Object

sip-tmpl-name

Description DDOS SIP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src

Description: src is a **JSON Block**. Please see below for *sip-list_src*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sip-list_src

Specification	Value
Type	*object*

sip-request-rate-limit

Description: sip-request-rate-limit is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit*

Type: Object

sip-list_src_sip-request-rate-limit

Specification	Value
Type	*object*

method

Description: method is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method*

Type: Object

sip-list_src_sip-request-rate-limit_method

Specification	Value
Type	*object*

bye-cfg

Description: bye-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_bye-cfg*

Type: Object

invite-cfg

Description: invite-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_invite-cfg*

Type: Object

message-cfg

Description: message-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_message-cfg*

Type: Object

notify-cfg

Description: notify-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_notify-cfg*

Type: Object

options-cfg

Description: options-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_options-cfg*

Type: Object

refer-cfg

Description: refer-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_refer-cfg*

Type: Object

register-cfg

Description: register-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_register-cfg*

Type: Object

subscribe-cfg

Description: subscribe-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_subscribe-cfg*

Type: Object

update-cfg

Description: update-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_update-cfg*

Type: Object

sip-list_src_sip-request-rate-limit_method_options-cfg

Specification	Value
Type	*object*

src-sip-options-cfg-flag

Description OPTIONS method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-options-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_refer-cfg

Specification	Value
Type	*object*

src-sip-refer-cfg-flag

Description REFER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-refer-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_bye-cfg

Specification	Value
Type	*object*

src-sip-bye-cfg-flag

Description BYE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-bye-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_subscribe-cfg

Specification	Value
Type	*object*

src-sip-subscribe-cfg-flag

Description SUBSCRIBE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-subscribe-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_register-cfg

Specification	Value
Type	*object*

src-sip-register-cfg-flag

Description REGISTER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-register-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_invite-cfg

Specification	Value
Type	*object*

src-sip-invite-cfg-flag

Description INVITE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-invite-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_message-cfg

Specification	Value
Type	*object*

src-sip-message-cfg-flag

Description MESSAGE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-message-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_update-cfg

Specification	Value
Type	*object*

src-sip-update-cfg-flag

Description UPDATE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-update-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_notify-cfg

Specification	Value
Type	*object*

src-sip-notify-cfg-flag

Description NOTIFY method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-notify-rate

Description

Type: number

Range: 1-16000000

sip-list_dst

Specification	Value
Type	*object*

sip-request-rate-limit

Description: sip-request-rate-limit is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit*

Type: Object

sip-list_dst_sip-request-rate-limit

Specification	Value
Type	*object*

method

Description: method is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method*

Type: Object

sip-list_dst_sip-request-rate-limit_method

Specification	Value
Type	*object*

bye-cfg

Description: bye-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_bye-cfg*

Type: Object

invite-cfg

Description: invite-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_invite-cfg*

Type: Object

message-cfg

Description: message-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_message-cfg*

Type: Object

notify-cfg

Description: notify-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_notify-cfg*

Type: Object

options-cfg

Description: options-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_options-cfg*

Type: Object

refer-cfg

Description: refer-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_refer-cfg*

Type: Object

register-cfg

Description: register-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_register-cfg*

Type: Object

subscribe-cfg

Description: subscribe-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_subscribe-cfg*

Type: Object

update-cfg

Description: update-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_update-cfg*

Type: Object

sip-list_dst_sip-request-rate-limit_method_options-cfg

Specification	Value
Type	*object*

dst-sip-options-cfg-flag

Description OPTIONS method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-options-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_refer-cfg

Specification	Value
Type	*object*

dst-sip-refer-cfg-flag

Description REFER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-refer-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_bye-cfg

Specification	Value
Type	*object*

dst-sip-bye-cfg-flag

Description BYE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-bye-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_subscribe-cfg

Specification	Value
Type	*object*

dst-sip-subscribe-cfg-flag

Description SUBSCRIBE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-subscribe-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_register-cfg

Specification	Value
Type	*object*

dst-sip-register-cfg-flag

Description REGISTER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-register-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_invite-cfg

Specification	Value
Type	*object*

dst-sip-invite-cfg-flag

Description INVITE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-invite-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_message-cfg

Specification	Value
Type	*object*

dst-sip-message-cfg-flag

Description MESSAGE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-message-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_update-cfg

Specification	Value
Type	*object*

dst-sip-update-cfg-flag

Description UPDATE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-update-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_notify-cfg

Specification	Value
Type	*object*

dst-sip-notify-cfg-flag

Description NOTIFY method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-notify-rate

Description

Type: number

Range: 1-16000000

sip-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

sip-list_malformed-sip

Specification	Value
Type	*object*

malformed-sip-call-id-max-length

Description Set the maximum call-id length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-check

Description 'enable-check': Enable malformed SIP parameters;

Type: string

Supported Values: enable-check

malformed-sip-max-header-name-length

Description Set the maximum header name length. Default value is 63

Type: number

Range: 1-63

Default: 63

malformed-sip-max-header-value-length

Description Set the maximum header value length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-line-size

Description Set the maximum line size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-uri-length

Description Set the maximum uri size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-sdp-max-length

Description Set the maxinum SDP content length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sip-list_filter-header-list

Specification	Value
Type	*list*
Block object keys	

sip-filter-header-blacklist

Description Also blacklist the source when action is taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-count-only

Description Take no action and continue processing the next filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

sip-filter-header-seq

Description Sequence number

Type: number

Range: 1-5

sip-filter-header-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-whitelist

Description Whitelist the source after filter passes, packets are dropped until then

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-v6-list

Specification	Value
Type	*list*
Block object keys	

icmp-tmpl-name

Description DDOS ICMPv6 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type-list

Type: List

Reference Object: */axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type/{type-number}*

type-other

Description: type-other is a **JSON Block**. Please see below for *icmp-v6-list_type-other*

Type: Object

Reference Object: */axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type-other*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-v6-list_type-other

Specification	Value
Type	*object*

type-other-deny

Description Deny all other type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-other-deny and type-other-rate are mutually exclusive

type-other-rate

Description Specify rate with other type

Type: number

Range: 1-16000000

Mutual Exclusion: type-other-rate and type-other-deny are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-v6-list_type-list

Specification	Value
Type	*list*
Block object keys	

code

Type: List

code-other

Description: code-other is a **JSON Block**. Please see below for *icmp-v6-list_type-list_code-other*

Type: Object

type-deny

Description Reject this ICMP type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-deny, type-rate, and code-other-rate are mutually exclusive

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

type-rate

Description Specify the whole rate with this type

Type: number

Range: 1-16000000

Mutual Exclusion: type-rate and type-deny are mutually exclusive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-v6-list_type-list_code

Specification	Value
Type	*list*
Block object keys	

code-number

Description Specify the ICMP code

Type: number

Range: 0-255

code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

icmp-v6-list_type-list_code-other

Specification	Value
Type	*object*

code-other-rate

Description Specify rate with other code

Type: number

Range: 1-16000000

Mutual Exclusion: code-other-rate and type-deny are mutually exclusive

2.33.495 ddos template dns

DNS template Configuration

dns Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*dns-list*
Collection URI	/axapi/v3/ddos/template/dns
Element Name	dns
Element URI	/axapi/v3/ddos/template/dns/{name}
Element Attributes	dns_attributes
Partition Visibility	shared
Schema	`dns schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/dns

dns attributes

```
POST /axapi/v3/ddos/template/dns/
Payload:
{
    "dns": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/template/dns

dns attributes

Get Object

GET

/axapi/v3/ddos/template/dns/{name}

dns attributes

```
GET /axapi/v3/ddos/template/dns/a
Reponse:
{
    "dns": {
        "name": "a",
        "action": "drop",
        "dns-any-check": 0,
        "dns-auth-cfg": {
            "dns-auth": 0
        },
        "nxdomain-cfg": {
            "dns-nxdomain-rate-limit": 0
        },
        "symtimeout-cfg": {
            "sym-timeout": 0
        },
        "dns-request-rate-limit": {
            "type": {
                "A-cfg": {
                    "A": 0
                },
                "AAAA-cfg": {
                    "AAAA": 0
                },
                "CNAME-cfg": {
                    "CNAME": 0
                },
                "MX-cfg": {
                    "MX": 0
                },
                "NS-cfg": {
                    "NS": 0
                },
                "SRV-cfg": {
                    "SRV": 0
                }
            }
        },
        "domain-group-rate-exceed-action": "drop",
        "domain-group-rate-per-service": 0,
```

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```
        "allow-query-class": {
            "allow-internet-query-class": 0,
            "allow-csnet-query-class": 0,
            "allow-chaos-query-class": 0,
            "allow-hesiod-query-class": 0,
            "allow-none-query-class": 0,
            "allow-any-query-class": 0
        },
        "allow-record-type": {
            "allow-a-type": 0,
            "allow-aaaa-type": 0,
            "allow-cname-type": 0,
            "allow-mx-type": 0,
            "allow-ns-type": 0,
            "allow-srv-type": 0
        },
        "uuid": "768524c0-0884-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/template/dns/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/template/dns

dns-list

Modify Object

POST

/axapi/v3/ddos/template/dns/{name}

dns attributes

Replace Object

PUT

/axapi/v3/ddos/template/dns/{name}

dns attributes

```
PUT /axapi/v3/ddos/template/dns/a
Payload:
{
    "dns": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/template/dns

dns-list

Delete Object

DELETE

/axapi/v3/ddos/template/dns/{name}

dns attributes

```
DELETE /axapi/v3/ddos/template/dns/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

dns-list

dns-list is **JSON List** of *dns attributes*

dns-list : [

{ *dns attributes* },

{ *dns attributes* },

...

]

dns attributes

action

Description 'drop': Drop packets (Default action); 'reset': Send Client RST for TCP connections;

Type: string

Supported Values: drop, reset

Default: drop

alias-rate-threshold

Description ALIAS(Record Type 65300) Query Forwarding Rate Limit (Only for DNS Cache Mode)

Type: number

Range: 1-16000000

allow-query-class

Description: allow-query-class is a **JSON Block**. Please see below for *allow-query-class*

Type: Object

allow-record-type

Description: allow-record-type is a **JSON Block**. Please see below for *allow-record-type*

Type: Object

dns-any-check

Description Drop DNS queries of Type ANY

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-auth-cfg

Description: dns-auth-cfg is a **JSON Block**. Please see below for *dns-auth-cfg*

Type: Object

dns-request-rate-limit

Description: dns-request-rate-limit is a **JSON Block**. Please see below for *dns-request-rate-limit*

Type: Object

dnssec-wildcard-rate-threshold

Description DNSSEC Wildcard Query Forwarding Rate Limit (only for DNS Cache Mode)

Type: number

Range: 1-16000000

domain-group-name

Description Apply a domain-group to the DNS template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

domain-group-rate-exceed-action

Description 'drop': Drop the query (default); 'tunnel-encap-packet': Encapsulate the query and send on a tunnel;

Type: string

Supported Values: drop, tunnel-encap-packet

Default: drop

domain-group-rate-per-service

Description Enable per service domain rate checking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encap-template

Description DDOS encap template to sepcify the tunnel endpoint

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

fqdn-cfg

Type: List

fqdn-label-count

Description Maximum number of length of FQDN labels

Type: number

Range: 1-10

fqdn-label-len-cfg

Type: List

malformed-query-check

Description: malformed-query-check is a **JSON Block**. Please see below for *malformed-query-check*

Type: Object

Reference Object: */axapi/v3/ddos/template/dns/{name}/malformed-query-check*

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *multi-pu-threshold-distribution*

Type: Object

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

nxdomain-cfg

Description: nxdomain-cfg is a **JSON Block**. Please see below for *nxdomain-cfg*

Type: Object

on-no-match

Description 'permit': permit; 'deny': deny (default);

Type: string

Supported Values: permit, deny

Default: deny

query-rate-threshold-for-cache-serving

Description This is for DNS cache mode only, it sets a DNS query rate threshold such that queries under the rate threshold would be forward

Type: number

Range: 1-16000000

symtimeout-cfg

Description: symtimeout-cfg is a **JSON Block**. Please see below for *symtimeout-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-request-rate-limit

Specification	Value
Type	*object*

type

Description: type is a **JSON Block**. Please see below for *dns-request-rate-limit_type*

Type: Object

dns-request-rate-limit_type

Specification	Value
Type	*object*

A-cfg

Description: A-cfg is a **JSON Block**. Please see below for *dns-request-rate-limit_type_A-cfg*

Type: Object

AAAA-cfg

Description: AAAA-cfg is a **JSON Block**. Please see below for *dns-request-rate-limit_type_AAAA-cfg*

Type: Object

CNAME-cfg

Description: CNAME-cfg is a **JSON Block**. Please see below for *dns-request-rate-limit_type_CNAME-cfg*

Type: Object

MX-cfg

Description: MX-cfg is a **JSON Block**. Please see below for *dns-request-rate-limit_type_MX-cfg*

Type: Object

NS-cfg

Description: NS-cfg is a **JSON Block**. Please see below for *dns-request-rate-limit_type_NS-cfg*

Type: Object

SRV-cfg

Description: SRV-cfg is a **JSON Block**. Please see below for *dns-request-rate-limit_type_SRV-cfg*

Type: Object

dns-type-cfg

Type: List

dns-request-rate-limit_type_SRV-cfg

Specification	Value
Type	*object*

SRV

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-srv-rate

Description DNS request rate

Type: number

Range: 1-16000000

dns-request-rate-limit_type_CNAME-cfg

Specification	Value
Type	*object*

CNAME

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-cname-rate

Description

Type: number

Range: 1-16000000

dns-request-rate-limit_type_dns-type-cfg

Specification	Value
Type	*list*
Block object keys	

dns-request-type

Description Other type value

Type: number

Range: 1-65535

dns-request-type-rate

Description request rate limit

Type: number

Range: 1-16000000

dns-request-rate-limit_type_AAAA-cfg

Specification	Value
Type	*object*

AAAA

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-aaaa-rate

Description

Type: number

Range: 1-16000000

dns-request-rate-limit_type_A-cfg

Specification	Value
Type	*object*

A

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-a-rate

Description

Type: number

Range: 1-16000000

dns-request-rate-limit_type_MX-cfg

Specification	Value
Type	*object*

MX

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-mx-rate

Description

Type: number

Range: 1-16000000

dns-request-rate-limit_type_NS-cfg

Specification	Value
Type	*object*

NS

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-ns-rate

Description

Type: number

Range: 1-16000000

multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

nxdomain-cfg

Specification	Value
Type	*object*

dns-nxdomain-rate

Description Limiting rate

Type: number

Range: 1-16000000

dns-nxdomain-rate-limit

Description DNS NXDOMAIN Rate Limiting (SRC support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-nxdomain-rate-limit-action

Description 'drop': Drop queries if rate is exceeded; 'black-list': Black-List source if rate is exceeded;

Type: string

Supported Values: drop, black-list

fqdn-cfg

Specification	Value
Type	*list*
Block object keys	

by

Description 'domain-name': Domain Name; 'src-ip': Source IP address; 'both': Use both Domain Name and Source IP address for rate-limiting;

Type: string

Supported Values: domain-name, src-ip, both

Mutual Exclusion: by and per are mutually exclusive

dns-fqdn-rate

Description Limiting rate (Range: 5-8000 for FQDN domain based rate limiting, 5-16000000 for FQDN label count based rate limiting)

Type: number

Range: 5-16000000

dns-fqdn-rate-limit

Description DNS Rate limiting on the basis of FQDN

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fqdn-rate-label-count

Description FQDN label count (Range: 1-8)

Type: number

Range: 1-8

fqdn-rate-suffix

Description Suffix count

Type: number

Range: 1-5

fqdn-rate-suffix-by

Description Number of suffixes

Type: number

Range: 1-5

per

Description 'domain-name': Domain Name; 'src-ip': Source IP address; 'label-count': FQDN label count;

Type: string

Supported Values: domain-name, src-ip, label-count

Mutual Exclusion: per and by are mutually exclusive

per-domain-per-src-ip

Description Use both Domain Name and Source IP address for rate-limiting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-auth-cfg

Specification	Value
Type	*object*

dns-auth

Description DNS authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-auth-type

Description 'udp': Drop DNS request and monitor client retry; 'force-tcp': Force DNS request over TCP;

Type: string

Supported Values: udp, force-tcp

force-tcp-ignore-client-source-port

Description Allow client to retransmit DNS request using different source port during udp-auth (supported in asymmetric mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force-tcp-min-retry-gap

Description Minimum sec gap in between 2 dns-udp packets for auth to pass

Type: number

Range: 1-15

force-tcp-timeout

Description TCP authentication timeout in seconds

Type: number

Range: 1-16

min-retry-gap

Description Optional minimum sec gap in between 2 dns-udp packets for auth to pass, unit is specified by min-retry-gap-interval

Type: number

Range: 1-80

min-retry-gap-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

udp-timeout

Description UDP authentication timeout in seconds

Type: number

Range: 1-16

udp-timeout-val-only

Description UDP authentication timeout in seconds

Type: number

Range: 1-16

with-udp-auth

Description Monitor client retry

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

symtimeout-cfg

Specification	Value
Type	*object*

sym-timeout

Description Timeout for DNS Symmetric session

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sym-timeout-value

Description Session timeout value in seconds

Type: number

Range: 1-31

allow-query-class

Specification	Value
Type	*object*

allow-any-query-class

Description ANY query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-chaos-query-class

Description CHAOS query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-csnet-query-class

Description CSNET query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-hesiod-query-class

Description HESIOD query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-internet-query-class

Description INTERNET query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-none-query-class

Description NONE query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fqdn-label-len-cfg

Specification	Value
Type	*list*
Block object keys	

fqdn-label-length

Description Maximum FQDN label length

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fqdn-label-suffix

Description Number of suffixes

Type: number

Range: 1-5

label-length

Description Maximum length of FQDN label

Type: number

Range: 1-63

allow-record-type

Specification	Value
Type	*object*

allow-a-type

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-aaaa-type

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-cname-type

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-mx-type

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-ns-type

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-srv-type

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

record-num-cfg

Type: List

allow-record-type_record-num-cfg

Specification	Value
Type	*list*
Block object keys	

allow-num-type

Description Other record type value

Type: number

Range: 1-65535

malformed-query-check

Specification	Value
Type	*object*

non-query-opcode-check

Description 'disable': When malform check is enabled, TPS always drops DNS query with non query opcode, this option disables this opcode check;

Type: string

Supported Values: disable

skip-multi-packet-check

Description Bypass DNS fragmented and TCP segmented Queries(Default: dropped)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

validation-type

Description 'basic-header-check': Basic header validation for DNS TCP/UDP queries; 'extended-header-check': Extended header/query validation for DNS TCP/UDP queries; 'disable': Disable Malform query validation for DNS TCP/UDP;

Type: string

Supported Values: basic-header-check, extended-header-check, disable

2.33.496 ddos template dns malformed-query-check

DNS Malform Query check options

malformed-query-check Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	malformed-query-check
Element URI	/axapi/v3/ddos/template/dns/{name}/malformed-query-check
Element Attributes	malformed-query-check_attributes
Partition Visibility	shared
Schema	`malformed-query-check schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/dns/{name}/malformed-query-check

malformed-query-check attributes

```
POST /axapi/v3/ddos/template/dns/a/malformed-query-check
Payload:
{
    "malformed-query-check": {
        "validation-type": "basic-header-check"
    }
}
```

Get Object

GET

/axapi/v3/ddos/template/dns/{name}/malformed-query-check

malformed-query-check attributes

```
GET /axapi/v3/ddos/template/dns/a/malformed-query-check
Reponse:
{
    "malformed-query-check": {
        "validation-type": "basic-header-check",
```

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```
        "skip-multi-packet-check": 0,
        "uuid": "09c40882-0885-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/template/dns/a/malformed-query-check"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/template/dns/{name}/malformed-query-check

malformed-query-check attributes

Replace Object

PUT

/axapi/v3/ddos/template/dns/{name}/malformed-query-check

malformed-query-check attributes

```
PUT /axapi/v3/ddos/template/dns/a/malformed-query-check
Payload:
{
    "malformed-query-check": {
        "validation-type": "extended-header-check"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/template/dns/{name}/malformed-query-check

malformed-query-check attributes

```
DELETE /axapi/v3/ddos/template/dns/a/malformed-query-check
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

malformed-query-check attributes

non-query-opcode-check

Description 'disable': When malform check is enabled, TPS always drops DNS query with non query opcode, this option disables this opcode check;

Type: string

Supported Values: disable

skip-multi-packet-check

Description Bypass DNS fragmented and TCP segmented Queries(Default: dropped)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

validation-type

Description 'basic-header-check': Basic header validation for DNS TCP/UDP queries; 'extended-header-check': Extended header/query validation for DNS TCP/UDP queries; 'disable': Disable Malform query validation for DNS TCP/UDP;

Type: string

Supported Values: basic-header-check, extended-header-check, disable

2.33.497 ddos template encap

Encapsulation template Configuration

encap Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*encap-tmpl-name*
Collection Name	*encap-list*
Collection URI	/axapi/v3/ddos/template/encap
Element Name	encap
Element URI	/axapi/v3/ddos/template/encap/{encap-tmpl-name}
Element Attributes	encap_attributes
Partition Visibility	shared
Schema	`encap schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/encap

encap attributes

```
POST /axapi/v3/ddos/template/encap/
Payload:
{
    "encap": {
        "encap-tmpl-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/template/encap

encap attributes

Get Object

GET

/axapi/v3/ddos/template/encap/{encap-tmpl-name}

encap attributes

```
GET /axapi/v3/ddos/template/encap/a
Reponse:
{
    "encap": {
        "encap-tmpl-name": "a",
        "tunnel-encap": {
            "ip-cfg": {
                "ip-encap": 0
            },
            "gre-cfg": {
                "gre-encap": 0
            }
        },
        "preserve-source-ip": 0,
        "uuid": "2176345a-0885-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/template/encap/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/template/encap

encap-list

Modify Object

POST

/axapi/v3/ddos/template/encap/{encap-tmpl-name}

encap attributes

Replace Object

PUT

/axapi/v3/ddos/template/encap/{encap-tmpl-name}

encap attributes

```
PUT /axapi/v3/ddos/template/encap/a
Payload:
{
    "encap": {
        "encap-tmpl-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/template/encap

encap-list

Delete Object

DELETE

/axapi/v3/ddos/template/encap/{encap-tmpl-name}

encap attributes

```
DELETE /axapi/v3/ddos/template/encap/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

encap-list

encap-list is **JSON List** of *encap attributes*

encap-list : [

{ *encap attributes* },

{ *encap attributes* },

...

]

encap attributes

encap-tmpl-name

Description DDOS Tunnel Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

preserve-source-ip

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap

Description: tunnel-encap is a **JSON Block**. Please see below for *tunnel-encap*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tunnel-encap

Specification	Value
Type	*object*

gre-cfg

Description: gre-cfg is a **JSON Block**. Please see below for *tunnel-encap_gre-cfg*

Type: Object

ip-cfg

Description: ip-cfg is a **JSON Block**. Please see below for *tunnel-encap_ip-cfg*

Type: Object

tunnel-encap_ip-cfg

Specification	Value
Type	*object*

always

Description: always is a **JSON Block**. Please see below for *tunnel-encap_ip-cfg_always*

Type: Object

ip-encap

Description Enable Tunnel encap for IP packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap_ip-cfg_always

Specification	Value
Type	*object*

ipv4-addr

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

ipv6-addr

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

tunnel-encap_gre-cfg

Specification	Value
Type	*object*

gre-always

Description: gre-always is a **JSON Block**. Please see below for *tunnel-encap_gre-cfg_gre-always*

Type: Object

gre-encap

Description Enable Tunnel encap for GRE packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap_gre-cfg_gre-always

Specification	Value
Type	*object*

gre-ipv4

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

gre-ipv6

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

key-ipv4

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

key-ipv6

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

2.33.498 ddos template http

HTTP template Configuration

http Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*http-tmpl-name*
Collection Name	*http-list*
Collection URI	/axapi/v3/ddos/template/http
Element Name	http
Element URI	/axapi/v3/ddos/template/http/{http-tmpl-name}
Element Attributes	http_attributes
Partition Visibility	shared
Schema	`http schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/http

http attributes

```
POST /axapi/v3/ddos/template/http/
Payload:
{
    "http": {
        "http-tmpl-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/template/http

http attributes

Get Object

GET

/axapi/v3/ddos/template/http/{http-tmpl-name}

http attributes

```
GET /axapi/v3/ddos/template/http/a
Reponse:
{
```

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```
    "http": {
        "http-tmpl-name": "a",
        "action": "drop",
        "mss-cfg": {
            "mss-timeout": 0
        },
        "disallow-connect-method": 0,
        "challenge-cookie-name": "sto-idd",
        "challenge-keep-cookie": 0,
        "challenge-interval": 8,
        "non-http-bypass": 0,
        "malformed-http": {
            "malformed-http-enabled": 0,
            "malformed-http-max-line-size": 32512,
            "malformed-http-max-num-headers": 90,
            "malformed-http-max-req-line-size": 32512,
            "malformed-http-max-header-name-size": 64,
            "malformed-http-max-content-length": 4294967295,
            "malformed-http-bad-chunk-mon-enabled": 0
        },
        "use-hdr-ip-cfg": {
            "use-hdr-ip-as-source": 0
        },
        "out-of-order-queue-size": 3,
        "out-of-order-queue-timeout": 3,
        "referer-filter": {
            "ref-filter-blacklist": 0
        },
        "agent-filter": {
            "agent-filter-blacklist": 0
        },
        "uuid": "4d20a63a-0885-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/template/http/a"
    }
}
```


Get List

GET

/axapi/v3/ddos/template/http

http-list

Modify Object

POST

/axapi/v3/ddos/template/http/{http-tmpl-name}

http attributes

Replace Object

PUT

/axapi/v3/ddos/template/http/{http-tmpl-name}

http attributes

```
PUT /axapi/v3/ddos/template/http/a
Payload:
{
    "http": {
        "http-tmpl-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/template/http

http-list

Delete Object

DELETE

/axapi/v3/ddos/template/http/{http-tmpl-name}

http attributes

```
DELETE /axapi/v3/ddos/template/http/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

http-list

http-list is **JSON List** of *http attributes*

http-list : [

{ *http attributes* },

{ *http attributes* },

...

]

http attributes

action

Description 'drop': Drop packets for the connection; 'reset': Send RST for the connection;

Type: string

Supported Values: drop, reset

Default: drop

agent-filter

Description: agent-filter is a **JSON Block**. Please see below for *agent-filter*

Type: Object

challenge-cookie-name

Description Set the cookie name used to send back to client. Default is sto-idd

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: sto-idd

challenge-interval

Description Specify the challenge interval. Default is 8 seconds

Type: number

Range: 1-31

Default: 8

challenge-keep-cookie

Description Keep the challenge cookie from client and forward to backend. Default is do not keep

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

challenge-method

Description 'http-redirect': http-redirect; 'javascript': javascript;

Type: string

Supported Values: http-redirect, javascript

challenge-redirect-code

Description '302': 302 Found; '307': 307 Temporary Redirect;

Type: string

Supported Values: 302, 307

Default: 302

challenge-uri-encode

Description Encode the challenge phrase in uri instead of in http cookie. Default encoded in http cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable

Description Disable this template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disallow-connect-method

Description Do not allow HTTP Connect method (asymmetric mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

filter-header-list

Type: List

Reference Object: */axapi/v3/ddos/template/http/{http-tmpl-name}/filter-header/{http-filter-header-seq}*

http-tmpl-name

Description DDOS HTTP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

idle-timeout

Description Set the the idle timeout value in seconds for HTTP connections

Type: number

Range: 1-63

ignore-zero-payload

Description Don't reset idle timer on packets with zero payload length from clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-http

Description: malformed-http is a **JSON Block**. Please see below for *malformed-http*

Type: Object

mss-cfg

Description: mss-cfg is a **JSON Block**. Please see below for *mss-cfg*

Type: Object

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *multi-pu-threshold-distribution*

Type: Object

non-http-bypass

Description Bypass non-http traffic instead of dropping

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

out-of-order-queue-size

Description Set the number of packets for the out-of-order HTTP queue (asym mode only)

Type: number

Range: 0-15

Default: 3

out-of-order-queue-timeout

Description Set the timeout value in seconds for out-of-order queue in HTTP (asym mode only)

Type: number

Range: 0-15

Default: 3

post-rate-limit

Description Configure rate limiting for HTTP POST request

Type: number

Range: 1-16000000

referer-filter

Description: referer-filter is a **JSON Block**. Please see below for *referer-filter*

Type: Object

request-header

Description: request-header is a **JSON Block**. Please see below for *request-header*

Type: Object

request-rate-limit

Description: request-rate-limit is a **JSON Block**. Please see below for *request-rate-limit*

Type: Object

response-rate-limit

Description: response-rate-limit is a **JSON Block**. Please see below for *response-rate-limit*

Type: Object

slow-read-drop

Description: slow-read-drop is a **JSON Block**. Please see below for *slow-read-drop*

Type: Object

use-hdr-ip-cfg

Description: use-hdr-ip-cfg is a **JSON Block**. Please see below for *use-hdr-ip-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

request-rate-limit

Specification	Value
Type	*object*

request-rate

Description HTTP request rate limit

Type: number

Range: 1-16000000

uri

Type: List

request-rate-limit_uri

Specification	Value
Type	*list*
Block object keys	

contains-cfg

Description: contains-cfg is a **JSON Block**. Please see below for *request-rate-limit_uri_contains-cfg*

Type: Object

ends-cfg

Description: ends-cfg is a **JSON Block**. Please see below for *request-rate-limit_uri_ends-cfg*

Type: Object

equal-cfg

Description: equal-cfg is a **JSON Block**. Please see below for *request-rate-limit_uri_equal-cfg*

Type: Object

starts-cfg

Description: starts-cfg is a **JSON Block**. Please see below for *request-rate-limit_uri_starts-cfg*

Type: Object

request-rate-limit_uri_equal-cfg

Specification	Value
Type	*object*

url-equals

Description Request rate-limit HTTP URI matching a specified pattern

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

url-equals-rate

Description Request rate limit

Type: number

Range: 1-16000000

request-rate-limit_uri_starts-cfg

Specification	Value
Type	*object*

url-starts-with

Description Request rate-limit HTTP URI strting with a specified pattern

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

url-starts-with-rate

Description Request rate limit

Type: number

Range: 1-16000000

request-rate-limit_uri_contains-cfg

Specification	Value
Type	*object*

url-contains

Description Request rate-limit HTTP URI containing a specified pattern

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

url-contains-rate

Description Request rate limit

Type: number

Range: 1-16000000

request-rate-limit_uri_ends-cfg

Specification	Value
Type	*object*

url-ends-with

Description Request rate-limit HTTP URI ending with a specified pattern

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

url-ends-with-rate

Description Request rate limit

Type: number

Range: 1-16000000

multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

malformed-http

Specification	Value
Type	*object*

malformed-http-bad-chunk-mon-enabled

Description Enabling bad chunk monitoring. Default is disabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-http-enabled

Description Enabling ddos malformed http protection. Default value is disabled.

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-http-max-content-length

Description Set the maximum content-length header. Default value is 4294967295 bytes

Type: number

Range: 1-4294967295

Default: 4294967295

malformed-http-max-header-name-size

Description Set the maxinum header name length. Default value is 64.

Type: number

Range: 1-64

Default: 64

malformed-http-max-line-size

Description Set the maximum line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

malformed-http-max-num-headers

Description Set the maximum number of headers. Default value is 90

Type: number

Range: 1-90

Default: 90

malformed-http-max-req-line-size

Description Set the maximum request line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

request-header

Specification	Value
Type	*object*

timeout

Description

Type: number

Range: 1-63

agent-filter

Specification	Value
Type	*object*

agent-contains-cfg

Type: List

agent-ends-cfg

Type: List

agent-equals-cfg

Type: List

agent-filter-blacklist

Description Blacklist the source if the user-agent matches

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

agent-starts-cfg

Type: List

agent-filter_agent-contains-cfg

Specification	Value
Type	*list*
Block object keys	

agent-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

agent-filter_agent-ends-cfg

Specification	Value
Type	*list*
Block object keys	

agent-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

agent-filter_agent-equals-cfg

Specification	Value
Type	*list*
Block object keys	

agent-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

agent-filter_agent-starts-cfg

Specification	Value
Type	*list*
Block object keys	

agent-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

filter-header-list

Specification	Value
Type	*list*
Block object keys	

http-filter-header-blacklist

Description Also blacklist the source when action is taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-count-only

Description Take no action and continue processing the next filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

http-filter-header-seq

Description Sequence number

Type: number

Range: 1-5

http-filter-header-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-whitelist

Description Whitelist the source after filter passes, packets are dropped until then

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

response-rate-limit

Specification	Value
Type	*object*

obj-size

Description: obj-size is a **JSON Block**. Please see below for *response-rate-limit_obj-size*

Type: Object

response-rate-limit_obj-size

Specification	Value
Type	*object*

between-cfg

Type: List

greater-cfg

Type: List

less-cfg

Type: List

response-rate-limit_obj-size_between-cfg

Specification	Value
Type	*list*
Block object keys	

obj-between-rate

Description Response rate limit

Type: number

Range: 1-16000000

obj-between1

Description Response size configuration

Type: number

Range: 1-16000000

obj-between2

Description Response size configuration

Type: number

Range: 1-16000000

response-rate-limit_obj-size_greater-cfg

Specification	Value
Type	*list*
Block object keys	

obj-greater

Description Response size configuration

Type: number

Range: 1-16000000

obj-greater-rate

Description Response rate limit

Type: number

Range: 1-16000000

response-rate-limit_obj-size_less-cfg

Specification	Value
Type	*list*
Block object keys	

obj-less

Description Response size configuration

Type: number

Range: 1-16000000

obj-less-rate

Description Response rate limit

Type: number

Range: 1-16000000

mss-cfg

Specification	Value
Type	*object*

mss-percent

Description Configure percentage of mss such that if a packet size is below the mss times mss-percent, packet is considered bad.

Type: number

Range: 1-100

mss-timeout

Description Configure DDOS detection based on mss and packet size

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

number-packets

Description Specify percentage of mss. Default is 0, mss-timeout is not enabled.

Type: number

Range: 1-31

referer-filter

Specification	Value
Type	*object*

ref-filter-blacklist

Description Blacklist the source if the referer matches

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

referer-contains-cfg

Type: List

referer-ends-cfg

Type: List

referer-equals-cfg

Type: List

referer-starts-cfg

Type: List

referer-filter_referer-equals-cfg

Specification	Value
Type	*list*
Block object keys	

referer-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

referer-filter_referer-starts-cfg

Specification	Value
Type	*list*
Block object keys	

referer-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

referer-filter_referer-contains-cfg

Specification	Value
Type	*list*
Block object keys	

referer-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

referer-filter_referer-ends-cfg

Specification	Value
Type	*list*
Block object keys	

referer-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

slow-read-drop

Specification	Value
Type	*object*

min-window-count

Description Number of packets

Type: number

Range: 1-31

min-window-size

Description minimum window size

Type: number

Range: 1-65535

use-hdr-ip-cfg

Specification	Value
Type	*object*

l7-hdr-name

Description Set the http header name to parse for client ip. Default is X-Forwarded-For

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: X-Forwarded-For

use-hdr-ip-as-source

Description Mitigate on src ip specified by http header for example X-Forwarded-For header. Default is disabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.499 ddos template http filter-header

HTTP Header Regex Filter Configuration

filter-header Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*http-filter-header-seq*
Collection Name	*filter-header-list*
Collection URI	/axapi/v3/ddos/template/http/{http-tmpl-name}/filter-header
Element Name	filter-header
Element URI	/axapi/v3/ddos/template/http/{http-tmpl-name}/filter-header/{http-filter-header-seq}
Element Attributes	filter-header_attributes
Partition Visibility	shared
Schema	`filter-header schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/http/{http-tmpl-name}/filter-header

filter-header attributes

Create List

POST

/axapi/v3/ddos/template/http/{http-tmpl-name}/filter-header

filter-header attributes

Get Object

GET

/axapi/v3/ddos/template/http/{http-tmpl-name}/filter-header/{http-filter-header-seq}

filter-header attributes

Get List

GET

/axapi/v3/ddos/template/http/{http-tmpl-name}/filter-header

filter-header-list

Modify Object

POST

/axapi/v3/ddos/template/http/{http-tmpl-name}/filter-header/{http-filter-header-seq}

filter-header attributes

Replace Object

PUT

/axapi/v3/ddos/template/http/{http-tmpl-name}/filter-header/{http-filter-header-seq}

filter-header attributes

Replace List

PUT

/axapi/v3/ddos/template/http/{http-tmpl-name}/filter-header

filter-header-list

Delete Object

DELETE

/axapi/v3/ddos/template/http/{http-tmpl-name}/filter-header/{http-filter-header-seq}

filter-header attributes

filter-header-list

filter-header-list is **JSON List** of *filter-header attributes*

filter-header-list : [

{ *filter-header attributes* },

{ *filter-header attributes* },

...

]

filter-header attributes

http-filter-header-blacklist

Description Also blacklist the source when action is taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-count-only

Description Take no action and continue processing the next filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

http-filter-header-seq

Description Sequence number

Type: number

Range: 1-5

http-filter-header-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-whitelist

Description Whitelist the source after filter passes, packets are dropped until then

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.500 ddos template icmp-v4

ICMPv4 template Configuration

icmp-v4 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*icmp-tmpl-name*
Collection Name	*icmp-v4-list*
Collection URI	/axapi/v3/ddos/template/icmp-v4
Element Name	icmp-v4
Element URI	/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}
Element Attributes	icmp-v4_attributes
Partition Visibility	shared
Schema	`icmp-v4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/icmp-v4

icmp-v4 attributes

```
POST /axapi/v3/ddos/template/icmp-v4/
Payload:
{
    "icmp-v4": {
        "icmp-tmpl-name": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/template/icmp-v4

icmp-v4 attributes

Get Object

GET

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}

icmp-v4 attributes

```
GET /axapi/v3/ddos/template/icmp-v4/a
Reponse:
{
    "icmp-v4": {
        "icmp-tmpl-name": "a",
        "uuid": "fd0a2800-0885-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/template/icmp-v4/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/template/icmp-v4

icmp-v4-list

Modify Object

POST

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}

icmp-v4 attributes

Replace Object

PUT

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}

icmp-v4 attributes

```
PUT /axapi/v3/ddos/template/icmp-v4/a
Payload:
{
    "icmp-v4": {
        "icmp-tmpl-name": "a"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/template/icmp-v4

icmp-v4-list

Delete Object

DELETE

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}

icmp-v4 attributes

```
DELETE /axapi/v3/ddos/template/icmp-v4/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

icmp-v4-list

icmp-v4-list is **JSON List** of *icmp-v4 attributes*

icmp-v4-list : [

{ *icmp-v4 attributes* },

{ *icmp-v4 attributes* },

...

]

icmp-v4 attributes

icmp-tmpl-name

Description DDOS ICMPv4 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type-list

Type: List

Reference Object: */axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type/{type-number}*

type-other

Description: type-other is a **JSON Block**. Please see below for *type-other*

Type: Object

Reference Object: */axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type-other*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

type-other

Specification	Value
Type	*object*

type-other-deny

Description Deny all other type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-other-deny and type-other-rate are mutually exclusive

type-other-rate

Description Specify rate with other type

Type: number

Range: 1-16000000

Mutual Exclusion: type-other-rate and type-other-deny are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

type-list

Specification	Value
Type	*list*
Block object keys	

code

Type: List

code-other

Description: code-other is a **JSON Block**. Please see below for *type-list_code-other*

Type: Object

type-deny

Description Reject this ICMP type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-deny, type-rate, and code-other-rate are mutually exclusive

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

type-rate

Description Specify the whole rate with this type

Type: number

Range: 1-16000000

Mutual Exclusion: type-rate and type-deny are mutually exclusive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

type-list_code

Specification	Value
Type	*list*
Block object keys	

code-number

Description Specify the ICMP code

Type: number

Range: 0-255

code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

type-list_code-other

Specification	Value
Type	*object*

code-other-rate

Description Specify rate with other code

Type: number

Range: 1-16000000

Mutual Exclusion: code-other-rate and type-deny are mutually exclusive

2.33.501 ddos template icmp-v4 type

Specify ICMP type

type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type-number*
Collection Name	*type-list*
Collection URI	/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type
Element Name	type
Element URI	/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type/{type-number}
Element Attributes	type_attributes
Partition Visibility	shared
Schema	`type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type

type attributes

Create List

POST

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type

type attributes

Get Object

GET

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type/{type-number}

type attributes

Get List

GET

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type

type-list

Modify Object

POST

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type/{type-number}

type attributes

Replace Object

PUT

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type/{type-number}

type attributes

Replace List

PUT

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type

type-list

Delete Object

DELETE

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type/{type-number}

type attributes

type-list

type-list is **JSON List** of *type attributes*

```
type-list : [
        { type attributes },
        { type attributes },
        ...
    ]
```

type attributes

code

Type: List

code-other

Description: code-other is a **JSON Block**. Please see below for *code-other*

Type: Object

type-deny

Description Reject this ICMP type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-deny, type-rate, and code-other-rate are mutually exclusive

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

type-rate

Description Specify the whole rate with this type

Type: number

Range: 1-16000000

Mutual Exclusion: type-rate and type-deny are mutually exclusive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

code

Specification	Value
Type	*list*
Block object keys	

code-number

Description Specify the ICMP code

Type: number

Range: 0-255

code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

code-other

Specification	Value
Type	*object*

code-other-rate

Description Specify rate with other code

Type: number

Range: 1-16000000

Mutual Exclusion: code-other-rate and type-deny are mutually exclusive

2.33.502 ddos template icmp-v4 type-other

Specify other type

type-other Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	type-other
Element URI	/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type-other
Element Attributes	type-other_attributes
Partition Visibility	shared
Schema	`type-other schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type-other

type-other attributes

```
POST /axapi/v3/ddos/template/icmp-v4/a/type-other
Payload:
{
    "type-other": {
        "type-other-deny": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type-other

type-other attributes

```
GET /axapi/v3/ddos/template/icmp-v4/a/type-other
Reponse:
{
    "type-other": {
        "type-other-deny": 1,
        "uuid": "2dc5fc08-0886-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/template/icmp-v4/a/type-other"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type-other

type-other attributes

Replace Object

PUT

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type-other

type-other attributes

```
PUT /axapi/v3/ddos/template/icmp-v4/a/type-other
Payload:
{
    "type-other": {
        "type-other-deny": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/template/icmp-v4/{icmp-tmpl-name}/type-other

type-other attributes

```
DELETE /axapi/v3/ddos/template/icmp-v4/a/type-other
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

type-other attributes

type-other-deny

Description Deny all other type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-other-deny and type-other-rate are mutually exclusive

type-other-rate

Description Specify rate with other type

Type: number

Range: 1-16000000

Mutual Exclusion: type-other-rate and type-other-deny are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.503 ddos template icmp-v6

ICMPv6 template Configuration

icmp-v6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*icmp-tmpl-name*
Collection Name	*icmp-v6-list*
Collection URI	/axapi/v3/ddos/template/icmp-v6
Element Name	icmp-v6
Element URI	/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}
Element Attributes	icmp-v6_attributes
Partition Visibility	shared
Schema	`icmp-v6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/icmp-v6

icmp-v6 attributes

```
POST /axapi/v3/ddos/template/icmp-v6/
Payload:
{
    "icmp-v6": {
        "icmp-tmpl-name": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/template/icmp-v6

icmp-v6 attributes

Get Object

GET

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}

icmp-v6 attributes

```
GET /axapi/v3/ddos/template/icmp-v6/a
Reponse:
{
    "icmp-v6": {
        "icmp-tmpl-name": "a",
        "uuid": "40524868-0886-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/template/icmp-v6/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/template/icmp-v6

icmp-v6-list

Modify Object

POST

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}

icmp-v6 attributes

Replace Object

PUT

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}

icmp-v6 attributes

```
PUT /axapi/v3/ddos/template/icmp-v6/a
Payload:
{
    "icmp-v6": {
        "icmp-tmpl-name": "a"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/template/icmp-v6

icmp-v6-list

Delete Object

DELETE

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}

icmp-v6 attributes

```
DELETE /axapi/v3/ddos/template/icmp-v6/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

icmp-v6-list

icmp-v6-list is **JSON List** of *icmp-v6 attributes*

icmp-v6-list : [

{ *icmp-v6 attributes* },

{ *icmp-v6 attributes* },

...

]

icmp-v6 attributes

icmp-tmpl-name

Description DDOS ICMPv6 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type-list

Type: List

Reference Object: */axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type/{type-number}*

type-other

Description: type-other is a **JSON Block**. Please see below for *type-other*

Type: Object

Reference Object: */axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type-other*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

type-other

Specification	Value
Type	*object*

type-other-deny

Description Deny all other type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-other-deny and type-other-rate are mutually exclusive

type-other-rate

Description Specify rate with other type

Type: number

Range: 1-16000000

Mutual Exclusion: type-other-rate and type-other-deny are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

type-list

Specification	Value
Type	*list*
Block object keys	

code

Type: List

code-other

Description: code-other is a **JSON Block**. Please see below for *type-list_code-other*

Type: Object

type-deny

Description Reject this ICMP type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-deny, type-rate, and code-other-rate are mutually exclusive

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

type-rate

Description Specify the whole rate with this type

Type: number

Range: 1-16000000

Mutual Exclusion: type-rate and type-deny are mutually exclusive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

type-list_code

Specification	Value
Type	*list*
Block object keys	

code-number

Description Specify the ICMP code

Type: number

Range: 0-255

code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

type-list_code-other

Specification	Value
Type	*object*

code-other-rate

Description Specify rate with other code

Type: number

Range: 1-16000000

Mutual Exclusion: code-other-rate and type-deny are mutually exclusive

2.33.504 ddos template icmp-v6 type

Specify ICMP type

type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type-number*
Collection Name	*type-list*
Collection URI	/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type
Element Name	type
Element URI	/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type/{type-number}
Element Attributes	type_attributes
Partition Visibility	shared
Schema	`type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type

type attributes

Create List

POST

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type

type attributes

Get Object

GET

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type/{type-number}

type attributes

Get List

GET

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type

type-list

Modify Object

POST

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type/{type-number}

type attributes

Replace Object

PUT

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type/{type-number}

type attributes

Replace List

PUT

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type

type-list

Delete Object

DELETE

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type/{type-number}

type attributes

type-list

type-list is **JSON List** of *type attributes*

type-list : [

{ *type attributes* },

{ *type attributes* },

...

]

type attributes

code

Type: List

code-other

Description: code-other is a **JSON Block**. Please see below for *code-other*

Type: Object

type-deny

Description Reject this ICMP type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-deny, type-rate, and code-other-rate are mutually exclusive

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

type-rate

Description Specify the whole rate with this type

Type: number

Range: 1-16000000

Mutual Exclusion: type-rate and type-deny are mutually exclusive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

code

Specification	Value
Type	*list*
Block object keys	

code-number

Description Specify the ICMP code

Type: number

Range: 0-255

code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

code-other

Specification	Value
Type	*object*

code-other-rate

Description Specify rate with other code

Type: number

Range: 1-16000000

Mutual Exclusion: code-other-rate and type-deny are mutually exclusive

2.33.505 ddos template icmp-v6 type-other

Specify other type

type-other Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	type-other
Element URI	/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type-other
Element Attributes	type-other_attributes
Partition Visibility	shared
Schema	`type-other schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type-other

type-other attributes

```
POST /axapi/v3/ddos/template/icmp-v6/a/type-other
Payload:
{
    "type-other": {
        "type-other-deny": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type-other

type-other attributes

```
GET /axapi/v3/ddos/template/icmp-v6/a/type-other
Reponse:
{
    "type-other": {
        "type-other-deny": 1,
        "uuid": "6f8946a4-0886-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/template/icmp-v6/a/type-other"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type-other

type-other attributes

Replace Object

PUT

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type-other

type-other attributes

```
PUT /axapi/v3/ddos/template/icmp-v6/a/type-other
Payload:
{
    "type-other": {
        "type-other-deny": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/template/icmp-v6/{icmp-tmpl-name}/type-other

type-other attributes

```
DELETE /axapi/v3/ddos/template/icmp-v6/a/type-other
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

type-other attributes

type-other-deny

Description Deny all other type

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: type-other-deny and type-other-rate are mutually exclusive

type-other-rate

Description Specify rate with other type

Type: number

Range: 1-16000000

Mutual Exclusion: type-other-rate and type-other-deny are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.506 ddos template logging

Logging template Configuration

logging Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*logging-tmpl-name*
Collection Name	*logging-list*
Collection URI	/axapi/v3/ddos/template/logging
Element Name	logging
Element URI	/axapi/v3/ddos/template/logging/{logging-tmpl-name}
Element Attributes	logging_attributes
Partition Visibility	shared
Schema	`logging schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/logging

logging attributes

```
POST /axapi/v3/ddos/template/logging/
Payload:
{
    "logging": {
        "logging-tmpl-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/template/logging

logging attributes

Get Object

GET

/axapi/v3/ddos/template/logging/{logging-tmpl-name}

logging attributes

```
GET /axapi/v3/ddos/template/logging/a
Reponse:
{
    "logging": {
        "logging-tmpl-name": "a",
        "log-format-cef": 0,
        "use-obj-name": 0,
        "enable-action-logging": 0,
        "uuid": "809c7b78-0886-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/template/logging/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/template/logging

logging-list

Modify Object

POST

/axapi/v3/ddos/template/logging/{logging-tmpl-name}

logging attributes

Replace Object

PUT

/axapi/v3/ddos/template/logging/{logging-tmpl-name}

logging attributes

```
PUT /axapi/v3/ddos/template/logging/a
Payload:
{
    "logging": {
        "logging-tmpl-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/template/logging

logging-list

Delete Object

DELETE

/axapi/v3/ddos/template/logging/{logging-tmpl-name}

logging attributes

```
DELETE /axapi/v3/ddos/template/logging/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

logging-list

logging-list is **JSON List** of *logging attributes*

logging-list : [

{ *logging attributes* },

{ *logging attributes* },

...

]

logging attributes

enable-action-logging

Description Log action taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-format-cef

Description Log in CEF format

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-format-custom

Description Customize log format

Type: string

Format: string-rlx

Maximum Length: 512 characters

Maximum Length: 1 characters

logging-tmpl-name

Description DDOS Logging Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: default

use-obj-name

Description Show obj name instead of ip in the log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.507 ddos template other

OTHER template configuration

other Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*other-list*
Collection URI	/axapi/v3/ddos/template/other
Element Name	other
Element URI	/axapi/v3/ddos/template/other/{name}
Element Attributes	other_attributes
Partition Visibility	shared
Schema	`other schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/other

other attributes

```
POST /axapi/v3/ddos/template/other/
Payload:
{
    "other": {
        "name": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/template/other

other attributes

Get Object

GET

/axapi/v3/ddos/template/other/{name}

other attributes

```
GET /axapi/v3/ddos/template/other/a
Reponse:
{
    "other": {
        "name": "a",
        "uuid": "9abeab3e-0886-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/template/other/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/template/other

other-list

Modify Object

POST

/axapi/v3/ddos/template/other/{name}

other attributes

Replace Object

PUT

/axapi/v3/ddos/template/other/{name}

other attributes

```
PUT /axapi/v3/ddos/template/other/a
Payload:
{
    "other": {
        "name": "a"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/template/other

other-list

Delete Object

DELETE

/axapi/v3/ddos/template/other/{name}

other attributes

```
DELETE /axapi/v3/ddos/template/other/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

other-list

other-list is **JSON List** of *other attributes*

other-list : [

{ *other attributes* },

{ *other attributes* },

...

]

other attributes

filter-list

Type: List

Reference Object: */axapi/v3/ddos/template/other/{name}/filter/{other-filter-seq}*

name

Description DDOS OTHER Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

other-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-seq

Description Sequence number

Type: number

Range: 1-5

other-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.508 ddos template other filter

OTHER Filter Configuration

filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*other-filter-seq*
Collection Name	*filter-list*
Collection URI	/axapi/v3/ddos/template/other/{name}/filter
Element Name	filter
Element URI	/axapi/v3/ddos/template/other/{name}/filter/{other-filter-seq}
Element Attributes	filter_attributes
Partition Visibility	shared
Schema	`filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/other/{name}/filter

filter attributes

Create List

POST

/axapi/v3/ddos/template/other/{name}/filter

filter attributes

Get Object

GET

/axapi/v3/ddos/template/other/{name}/filter/{other-filter-seq}

filter attributes

Get List

GET

/axapi/v3/ddos/template/other/{name}/filter

filter-list

Modify Object

POST

/axapi/v3/ddos/template/other/{name}/filter/{other-filter-seq}

filter attributes

Replace Object

PUT

/axapi/v3/ddos/template/other/{name}/filter/{other-filter-seq}

filter attributes

Replace List

PUT

/axapi/v3/ddos/template/other/{name}/filter

filter-list

Delete Object

DELETE

/axapi/v3/ddos/template/other/{name}/filter/{other-filter-seq}

filter attributes

filter-list

filter-list is **JSON List** of *filter attributes*

filter-list : [

{ *filter attributes* },

{ *filter attributes* },

...

]

filter attributes

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

other-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-seq

Description Sequence number

Type: number

Range: 1-5

other-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.509 ddos template sip

SIP template Configuration

sip Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*sip-tmpl-name*
Collection Name	*sip-list*
Collection URI	/axapi/v3/ddos/template/sip
Element Name	sip
Element URI	/axapi/v3/ddos/template/sip/{sip-tmpl-name}
Element Attributes	sip_attributes
Partition Visibility	shared
Schema	`sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/sip

sip attributes

```
POST /axapi/v3/ddos/template/sip/
Payload:
{
    "sip": {
        "sip-tmpl-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/template/sip

sip attributes

Get Object

GET

/axapi/v3/ddos/template/sip/{sip-tmpl-name}

sip attributes

```
GET /axapi/v3/ddos/template/sip/a
Reponse:
{
    "sip": {
        "sip-tmpl-name": "a",
        "action": "drop",
        "dst": {
            "sip-request-rate-limit": {
                "method": {
                    "invite-cfg": {
                        "dst-sip-invite-cfg-flag": 0
                    },
                    "register-cfg": {
                        "dst-sip-register-cfg-flag": 0
                    },
                    "options-cfg": {
                        "dst-sip-options-cfg-flag": 0
                    },
                    "bye-cfg": {
                        "dst-sip-bye-cfg-flag": 0
                    },
                    "subscribe-cfg": {
                        "dst-sip-subscribe-cfg-flag": 0
                    },
                    "notify-cfg": {
                        "dst-sip-notify-cfg-flag": 0
                    },
                    "refer-cfg": {
                        "dst-sip-refer-cfg-flag": 0
                    },
                    "message-cfg": {
                        "dst-sip-message-cfg-flag": 0
                    },
                    "update-cfg": {
                        "dst-sip-update-cfg-flag": 0
                    }
                }
            }
        },
        "src": {
            "sip-request-rate-limit": {
                "method": {
                    "invite-cfg": {
                        "src-sip-invite-cfg-flag": 0
                    },
                    "register-cfg": {
                        "src-sip-register-cfg-flag": 0
                    },
                    "options-cfg": {
                        "src-sip-options-cfg-flag": 0
```

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```
                    },
                    "bye-cfg": {
                        "src-sip-bye-cfg-flag": 0
                    },
                    "subscribe-cfg": {
                        "src-sip-subscribe-cfg-flag": 0
                    },
                    "notify-cfg": {
                        "src-sip-notify-cfg-flag": 0
                    },
                    "refer-cfg": {
                        "src-sip-refer-cfg-flag": 0
                    },
                    "message-cfg": {
                        "src-sip-message-cfg-flag": 0
                    },
                    "update-cfg": {
                        "src-sip-update-cfg-flag": 0
                    }
                }
            }
        },
        "uuid": "c5709e96-0886-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/template/sip/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/template/sip

sip-list

Modify Object

POST

/axapi/v3/ddos/template/sip/{sip-tmpl-name}

sip attributes

Replace Object

PUT

/axapi/v3/ddos/template/sip/{sip-tmpl-name}

sip attributes

```
PUT /axapi/v3/ddos/template/sip/a
Payload:
{
    "sip": {
        "sip-tmpl-name": "a",
```

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```
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/template/sip

sip-list

Delete Object

DELETE

/axapi/v3/ddos/template/sip/{sip-tmpl-name}

sip attributes

```
DELETE /axapi/v3/ddos/template/sip/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

sip-list

sip-list is **JSON List** of *sip attributes*

sip-list : [

{ *sip attributes* },

{ *sip attributes* },

...

]

sip attributes

action

Description 'drop': Drop packets for sip connection; 'reset': Send RST for sip-tcp connection;

Type: string

Supported Values: drop, reset

Default: drop

dst

Description: dst is a **JSON Block**. Please see below for *dst*

Type: Object

filter-header-list

Type: List

Reference Object: */axapi/v3/ddos/template/sip/{sip-tmpl-name}/filter-header/{sip-filter-header-seq}*

idle-timeout

Description Set the the idle timeout value for sip-tcp connections

Type: number

Range: 1-63

ignore-zero-payload

Description Don't reset idle timer on packets with zero payload length from clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-sip

Description: malformed-sip is a **JSON Block**. Please see below for *malformed-sip*

Type: Object

Reference Object: */axapi/v3/ddos/template/sip/{sip-tmpl-name}/malformed-sip*

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *multi-pu-threshold-distribution*

Type: Object

sip-tmpl-name

Description DDOS SIP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src

Description: src is a **JSON Block**. Please see below for *src*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src

Specification	Value
Type	*object*

sip-request-rate-limit

Description: sip-request-rate-limit is a **JSON Block**. Please see below for *src_sip-request-rate-limit*

Type: Object

src_sip-request-rate-limit

Specification	Value
Type	*object*

method

Description: method is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method*

Type: Object

src_sip-request-rate-limit_method

Specification	Value
Type	*object*

bye-cfg

Description: bye-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_bye-cfg*

Type: Object

invite-cfg

Description: invite-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_invite-cfg*

Type: Object

message-cfg

Description: message-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_message-cfg*

Type: Object

notify-cfg

Description: notify-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_notify-cfg*

Type: Object

options-cfg

Description: options-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_options-cfg*

Type: Object

refer-cfg

Description: refer-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_refer-cfg*

Type: Object

register-cfg

Description: register-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_register-cfg*

Type: Object

subscribe-cfg

Description: subscribe-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_subscribe-cfg*

Type: Object

update-cfg

Description: update-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_update-cfg*

Type: Object

src_sip-request-rate-limit_method_options-cfg

Specification	Value
Type	*object*

src-sip-options-cfg-flag

Description OPTIONS method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-options-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_refer-cfg

Specification	Value
Type	*object*

src-sip-refer-cfg-flag

Description REFER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-refer-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_bye-cfg

Specification	Value
Type	*object*

src-sip-bye-cfg-flag

Description BYE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-bye-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_subscribe-cfg

Specification	Value
Type	*object*

src-sip-subscribe-cfg-flag

Description SUBSCRIBE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-subscribe-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_register-cfg

Specification	Value
Type	*object*

src-sip-register-cfg-flag

Description REGISTER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-register-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_invite-cfg

Specification	Value
Type	*object*

src-sip-invite-cfg-flag

Description INVITE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-invite-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_message-cfg

Specification	Value
Type	*object*

src-sip-message-cfg-flag

Description MESSAGE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-message-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_update-cfg

Specification	Value
Type	*object*

src-sip-update-cfg-flag

Description UPDATE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-update-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_notify-cfg

Specification	Value
Type	*object*

src-sip-notify-cfg-flag

Description NOTIFY method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-notify-rate

Description

Type: number

Range: 1-16000000

dst

Specification	Value
Type	*object*

sip-request-rate-limit

Description: sip-request-rate-limit is a **JSON Block**. Please see below for *dst_sip-request-rate-limit*

Type: Object

dst_sip-request-rate-limit

Specification	Value
Type	*object*

method

Description: method is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method*

Type: Object

dst_sip-request-rate-limit_method

Specification	Value
Type	*object*

bye-cfg

Description: bye-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_bye-cfg*

Type: Object

invite-cfg

Description: invite-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_invite-cfg*

Type: Object

message-cfg

Description: message-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_message-cfg*

Type: Object

notify-cfg

Description: notify-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_notify-cfg*

Type: Object

options-cfg

Description: options-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_options-cfg*

Type: Object

refer-cfg

Description: refer-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_refer-cfg*

Type: Object

register-cfg

Description: register-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_register-cfg*

Type: Object

subscribe-cfg

Description: subscribe-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_subscribe-cfg*

Type: Object

update-cfg

Description: update-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_update-cfg*

Type: Object

dst_sip-request-rate-limit_method_options-cfg

Specification	Value
Type	*object*

dst-sip-options-cfg-flag

Description OPTIONS method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-options-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_refer-cfg

Specification	Value
Type	*object*

dst-sip-refer-cfg-flag

Description REFER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-refer-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_bye-cfg

Specification	Value
Type	*object*

dst-sip-bye-cfg-flag

Description BYE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-bye-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_subscribe-cfg

Specification	Value
Type	*object*

dst-sip-subscribe-cfg-flag

Description SUBSCRIBE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-subscribe-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_register-cfg

Specification	Value
Type	*object*

dst-sip-register-cfg-flag

Description REGISTER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-register-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_invite-cfg

Specification	Value
Type	*object*

dst-sip-invite-cfg-flag

Description INVITE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-invite-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_message-cfg

Specification	Value
Type	*object*

dst-sip-message-cfg-flag

Description MESSAGE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-message-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_update-cfg

Specification	Value
Type	*object*

dst-sip-update-cfg-flag

Description UPDATE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-update-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_notify-cfg

Specification	Value
Type	*object*

dst-sip-notify-cfg-flag

Description NOTIFY method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-notify-rate

Description

Type: number

Range: 1-16000000

multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

malformed-sip

Specification	Value
Type	*object*

malformed-sip-call-id-max-length

Description Set the maximum call-id length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-check

Description 'enable-check': Enable malformed SIP parameters;

Type: string

Supported Values: enable-check

malformed-sip-max-header-name-length

Description Set the maximum header name length. Default value is 63

Type: number

Range: 1-63

Default: 63

malformed-sip-max-header-value-length

Description Set the maximum header value length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-line-size

Description Set the maximum line size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-uri-length

Description Set the maximum uri size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-sdp-max-length

Description Set the maxinum SDP content length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

filter-header-list

Specification	Value
Type	*list*
Block object keys	

sip-filter-header-blacklist

Description Also blacklist the source when action is taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-count-only

Description Take no action and continue processing the next filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

sip-filter-header-seq

Description Sequence number

Type: number

Range: 1-5

sip-filter-header-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-whitelist

Description Whitelist the source after filter passes, packets are dropped until then

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.510 ddos template sip filter-header

SIP Header Regex Filter Configuration

filter-header Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*sip-filter-header-seq*
Collection Name	*filter-header-list*
Collection URI	/axapi/v3/ddos/template/sip/{sip-tmpl-name}/filter-header
Element Name	filter-header
Element URI	/axapi/v3/ddos/template/sip/{sip-tmpl-name}/filter-header/{sip-filter-header-seq}
Element Attributes	filter-header_attributes
Partition Visibility	shared
Schema	`filter-header schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/sip/{sip-tmpl-name}/filter-header

filter-header attributes

Create List

POST

/axapi/v3/ddos/template/sip/{sip-tmpl-name}/filter-header

filter-header attributes

Get Object

GET

/axapi/v3/ddos/template/sip/{sip-tmpl-name}/filter-header/{sip-filter-header-seq}

filter-header attributes

Get List

GET

/axapi/v3/ddos/template/sip/{sip-tmpl-name}/filter-header

filter-header-list

Modify Object

POST

/axapi/v3/ddos/template/sip/{sip-tmpl-name}/filter-header/{sip-filter-header-seq}

filter-header attributes

Replace Object

PUT

/axapi/v3/ddos/template/sip/{sip-tmpl-name}/filter-header/{sip-filter-header-seq}

filter-header attributes

Replace List

PUT

/axapi/v3/ddos/template/sip/{sip-tmpl-name}/filter-header

filter-header-list

Delete Object

DELETE

/axapi/v3/ddos/template/sip/{sip-tmpl-name}/filter-header/{sip-filter-header-seq}

filter-header attributes

filter-header-list

filter-header-list is **JSON List** of *filter-header attributes*

```
filter-header-list : [
        { filter-header attributes },
        { filter-header attributes },
        ...
    ]
```

filter-header attributes

sip-filter-header-blacklist

Description Also blacklist the source when action is taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-count-only

Description Take no action and continue processing the next filter

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

sip-filter-header-seq

Description Sequence number

Type: number

Range: 1-5

sip-filter-header-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-whitelist

Description Whitelist the source after filter passes, packets are dropped until then

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.511 ddos template sip malformed-sip

Configure and enable malformed SIP check

malformed-sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	malformed-sip
Element URI	/axapi/v3/ddos/template/sip/{sip-tmpl-name}/malformed-sip
Element Attributes	malformed-sip_attributes
Partition Visibility	shared
Schema	`malformed-sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/sip/{sip-tmpl-name}/malformed-sip

malformed-sip attributes

```
POST /axapi/v3/ddos/template/sip/a/malformed-sip
Payload:
{
    "malformed-sip": {
        "malformed-sip-check": "enable-check"
    }
}
```

Get Object

GET

/axapi/v3/ddos/template/sip/{sip-tmpl-name}/malformed-sip

malformed-sip attributes

```
GET /axapi/v3/ddos/template/sip/a/malformed-sip
Reponse:
{
    "malformed-sip": {
        "malformed-sip-check": "enable-check",
        "malformed-sip-max-line-size": 32511,
        "malformed-sip-max-uri-length": 32511,
        "malformed-sip-max-header-name-length": 63,
        "malformed-sip-max-header-value-length": 32511,
        "malformed-sip-call-id-max-length": 32511,
        "malformed-sip-sdp-max-length": 32511,
        "uuid": "38c45950-0887-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/template/sip/a/malformed-sip"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/template/sip/{sip-tmpl-name}/malformed-sip

malformed-sip attributes

Replace Object

PUT

/axapi/v3/ddos/template/sip/{sip-tmpl-name}/malformed-sip

malformed-sip attributes

```
PUT /axapi/v3/ddos/template/sip/a/malformed-sip
```

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```
Payload:
{
    "malformed-sip": {
        "malformed-sip-check": "enable-check"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/template/sip/{sip-tmpl-name}/malformed-sip

malformed-sip attributes

```
DELETE /axapi/v3/ddos/template/sip/a/malformed-sip
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

malformed-sip attributes

malformed-sip-call-id-max-length

Description Set the maximum call-id length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-check

Description 'enable-check': Enable malformed SIP parameters;

Type: string

Supported Values: enable-check

malformed-sip-max-header-name-length

Description Set the maximum header name length. Default value is 63

Type: number

Range: 1-63

Default: 63

malformed-sip-max-header-value-length

Description Set the maximum header value length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-line-size

Description Set the maximum line size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-uri-length

Description Set the maximum uri size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-sdp-max-length

Description Set the maxinum SDP content length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.512 ddos template ssl-l4

SSL-L4 template Configuration

ssl-l4 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ssl-l4-tmpl-name*
Collection Name	*ssl-l4-list*
Collection URI	/axapi/v3/ddos/template/ssl-l4
Element Name	ssl-l4
Element URI	/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}
Element Attributes	ssl-l4_attributes
Partition Visibility	shared
Schema	`ssl-l4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/ssl-l4

ssl-l4 attributes

```
POST /axapi/v3/ddos/template/ssl-l4/
Payload:
{
    "ssl-l4": {
        "ssl-l4-tmpl-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/template/ssl-l4

ssl-l4 attributes

Get Object

GET

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}

ssl-l4 attributes

```
GET /axapi/v3/ddos/template/ssl-l4/a
Reponse:
{
    "ssl-l4": {
        "ssl-l4-tmpl-name": "a",
        "action": "drop",
        "allow-non-tls": 0,
        "auth-config-cfg": {
            "timeout": 5,
            "trials": 5
        },
        "uuid": "5a8f99c8-0887-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/template/ssl-l4/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/template/ssl-l4

ssl-l4-list

Modify Object

POST

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}

ssl-l4 attributes

Replace Object

PUT

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}

ssl-l4 attributes

```
PUT /axapi/v3/ddos/template/ssl-l4/a
Payload:
{
    "ssl-l4": {
        "ssl-l4-tmpl-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/template/ssl-l4

ssl-l4-list

Delete Object

DELETE

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}

ssl-l4 attributes

```
DELETE /axapi/v3/ddos/template/ssl-l4/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ssl-l4-list

ssl-l4-list is **JSON List** of *ssl-l4 attributes*

ssl-l4-list : [

{ *ssl-l4 attributes* },

{ *ssl-l4 attributes* },

...

]

ssl-l4 attributes

action

Description 'drop': drop; 'reset': reset;

Type: string

Supported Values: drop, reset

Default: drop

allow-non-tls

Description Allow Non-TLS (SSLv3 and lower) traffic (Warning: security may be compromised)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-config-cfg

Description: auth-config-cfg is a **JSON Block**. Please see below for *auth-config-cfg*

Type: Object

cert-cfg

Description: cert-cfg is a **JSON Block**. Please see below for *cert-cfg*

Type: Object

disable

Description Disable this template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *multi-pu-threshold-distribution*

Type: Object

renegotiation

Description Configure renegotiation limiting for SSL (Number of renegotiation allowed)

Type: number

Range: 0-7

request-rate-limit

Description Configure rate limiting for SSL

Type: number

Range: 1-16000000

server-name-list

Type: List

ssl-handshake-policy

Description: ssl-handshake-policy is a **JSON Block**. Please see below for *ssl-handshake-policy*

Type: Object

Reference Object: */axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy*

ssl-l4-tmpl-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-traffic-check

Description: ssl-traffic-check is a **JSON Block**. Please see below for *ssl-traffic-check*

Type: Object

Reference Object: */axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cert-cfg

Specification	Value
Type	*object*

cert

Description SSL certificate

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

key

Description SSL key

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

key-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED password string)

key-passphrase

Description Password Phrase

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

auth-config-cfg

Specification	Value
Type	*object*

auth-handshake-fail-action

Description 'blacklist-src': Blacklist-src when auth handshake fails;

Type: string

Supported Values: blacklist-src

timeout

Description Connection timeout

Type: number

Range: 1-31

Default: 5

trials

Description Number of failed handshakes

Type: number

Range: 0-15

Default: 5

ssl-traffic-check

Specification	Value
Type	*object*

check-resumed-connection

Description Apply checks to SSL connections initialized by ACK packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

header-action

Description 'drop': Drop packets with bad ssl header; 'ignore': Forward packets with bad ssl header;

Type: string

Supported Values: drop, ignore

header-inspection

Description Inspect ssl header

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

ssl-handshake-policy

Specification	Value
Type	*object*

action

Description 'drop': Drop packets (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist source IP;

Type: string

Supported Values: drop, reset, blacklist-src

Mutual Exclusion: action and ssl-handshake-policy-action-list-name are mutually exclusive

cipher-suites-limit

Description Set cipher suites limit

Type: number

Range: 1-600

client-extensions-limit

Description Set client extensions limit

Type: number

Range: 1-600

clienthello-to-appdata-timeout

Description Set maximum timeout seconds from ClientHello to Application-Data

Type: number

Range: 1-600

finished-to-appdata-timeout

Description Set maximum timeout seconds from Handshake finished to Application-Data

Type: number

Range: 1-600

src-handshaking-conn-limit

Description Set handshaking connection limit

Type: number

Range: 1-16000000

ssl-handshake-policy-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-handshake-policy-action-list-name and action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server-name-list

Specification	Value
Type	*list*
Block object keys	

server-cert

Description Server Certificate associated to SNI (Server Certificate Name)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED password string)

server-key

Description Server Private Key associated to SNI (Server Private Key Name)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-name

Description Server name indication in Client hello extension (Server name String)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-passphrase

Description Password Phrase

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.513 ddos template ssl-l4 ssl-handshake-policy

SSL Handshake Policy Configuration

ssl-handshake-policy Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ssl-handshake-policy
Element URI	/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy
Element Attributes	ssl-handshake-policy_attributes
Partition Visibility	shared
Schema	`ssl-handshake-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy

ssl-handshake-policy attributes

```
POST /axapi/v3/ddos/template/ssl-l4/a/ssl-handshake-policy
Payload:
{
    "ssl-handshake-policy": {
        "action": "drop"
    }
}
```

Get Object

GET

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy

ssl-handshake-policy attributes

```
GET /axapi/v3/ddos/template/ssl-l4/a/ssl-handshake-policy
Reponse:
{
    "ssl-handshake-policy": {
        "action": "drop",
        "uuid": "94e19f72-0887-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/template/ssl-l4/a/ssl-handshake-policy"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy

ssl-handshake-policy attributes

Replace Object

PUT

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy

ssl-handshake-policy attributes

```
PUT /axapi/v3/ddos/template/ssl-l4/a/ssl-handshake-policy
Payload:
{
    "ssl-handshake-policy": {
        "action": "reset"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy

ssl-handshake-policy attributes

```
DELETE /axapi/v3/ddos/template/ssl-l4/a/ssl-handshake-policy
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ssl-handshake-policy attributes

action

Description 'drop': Drop packets (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist source IP;

Type: string

Supported Values: drop, reset, blacklist-src

Mutual Exclusion: action and ssl-handshake-policy-action-list-name are mutually exclusive

cipher-suites-limit

Description Set cipher suites limit

Type: number

Range: 1-600

client-extensions-limit

Description Set client extensions limit

Type: number

Range: 1-600

clienthello-to-appdata-timeout

Description Set maximum timeout seconds from ClientHello to Application-Data

Type: number

Range: 1-600

finished-to-appdata-timeout

Description Set maximum timeout seconds from Handshake finished to Application-Data

Type: number

Range: 1-600

src-handshaking-conn-limit

Description Set handshaking connection limit

Type: number

Range: 1-16000000

ssl-handshake-policy-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-handshake-policy-action-list-name and action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.514 ddos template ssl-l4 ssl-traffic-check

SSL Traffic Check Configuration

ssl-traffic-check Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ssl-traffic-check
Element URI	/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check
Element Attributes	ssl-traffic-check_attributes
Partition Visibility	shared
Schema	`ssl-traffic-check schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check

ssl-traffic-check attributes

Get Object

GET

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check

ssl-traffic-check attributes

Modify Object

POST

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check

ssl-traffic-check attributes

Replace Object

PUT

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check

ssl-traffic-check attributes

Delete Object

DELETE

/axapi/v3/ddos/template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check

ssl-traffic-check attributes

ssl-traffic-check attributes

check-resumed-connection

Description Apply checks to SSL connections initialized by ACK packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

header-action

Description 'drop': Drop packets with bad ssl header; 'ignore': Forward packets with bad ssl header;

Type: string

Supported Values: drop, ignore

header-inspection

Description Inspect ssl header

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.515 ddos template tcp

TCP template Configuration

tcp Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*tcp-list*
Collection URI	/axapi/v3/ddos/template/tcp
Element Name	tcp
Element URI	/axapi/v3/ddos/template/tcp/{name}
Element Attributes	tcp_attributes
Partition Visibility	shared
Schema	`tcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/tcp

tcp attributes

```
POST /axapi/v3/ddos/template/tcp/
Payload:
{
    "tcp": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/template/tcp

tcp attributes

Get Object

GET

/axapi/v3/ddos/template/tcp/{name}

tcp attributes

```
GET /axapi/v3/ddos/template/tcp/a
Reponse:
{
```

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```
    "tcp": {
        "name": "a",
        "action-cfg": {
            "action-on-ack": 0
        },
        "syn-cookie": 0,
        "create-conn-on-syn-only": 0,
        "syn-auth": "send-rst",
        "conn-rate-limit-on-syn-only": 0,
        "per-conn-rate-interval": "1sec",
        "dst": {
            "rate-limit": {
                "syn-rate-limit": {
                    "dst-syn-rate-action": "drop"
                }
            }
        },
        "src": {
            "rate-limit": {
                "syn-rate-limit": {
                    "src-syn-rate-action": "drop"
                }
            }
        },
        "allow-synack-skip-authentications": 0,
        "action-syn-cfg": {
            "action-on-syn": 0
        },
        "allow-syn-otherflags": 0,
        "allow-tcp-tfo": 0,
        "ack-authentication-synack-reset": 0,
        "drop-known-resp-src-port-cfg": {
            "drop-known-resp-src-port": 0
        },
        "tunnel-encap": {
            "ip-cfg": {
                "ip-encap": 0
            },
            "gre-cfg": {
                "gre-encap": 0
            }
        },
        "uuid": "b3b8d488-0887-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/template/tcp/a"
    }
}
```


Get List

GET

/axapi/v3/ddos/template/tcp

tcp-list

Modify Object

POST

/axapi/v3/ddos/template/tcp/{name}

tcp attributes

Replace Object

PUT

/axapi/v3/ddos/template/tcp/{name}

tcp attributes

```
PUT /axapi/v3/ddos/template/tcp/a
Payload:
{
    "tcp": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/template/tcp

tcp-list

Delete Object

DELETE

/axapi/v3/ddos/template/tcp/{name}

tcp attributes

```
DELETE /axapi/v3/ddos/template/tcp/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

tcp-list

tcp-list is **JSON List** of *tcp attributes*

tcp-list : [

{ *tcp attributes* },

{ *tcp attributes* },

...

]

tcp attributes

ack-authentication-synack-reset

Description Enable Reset client TCP SYN+ACK for authentication (DST support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-cfg

Description: action-cfg is a **JSON Block**. Please see below for *action-cfg*

Type: Object

action-on-ack-rto-retry-count

Description Take action if action-on-ack RTO-authentication fail over retry time(default:5)

Type: number

Range: 2-10

action-on-syn-rto-retry-count

Description Take action if action-on-syn RTO-authentication fail over retry time(default:5)

Type: number

Range: 2-10

action-syn-cfg

Description: action-syn-cfg is a **JSON Block**. Please see below for *action-syn-cfg*

Type: Object

age

Description Session age in minutes

Type: number

Range: 1-63

allow-syn-otherflags

Description Treat TCP SYN+PSH as a TCP SYN (DST tcp ports support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-synack-skip-authentications

Description Allow create sessions on SYNACK without syn-auth and ack-auth (ASYM Mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-tcp-tfo

Description Allow TCP Fast Open

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

black-list-out-of-seq

Description Black list Src IP if out of seq pkts exceed configured threshold

Type: number

Range: 1-64000

Mutual Exclusion: black-list-out-of-seq and per-conn-out-of-seq-rate-limit are mutually exclusive

black-list-retransmit

Description Black list Src IP if retransmit pkts exceed configured threshold

Type: number

Range: 1-64000

Mutual Exclusion: black-list-retransmit and per-conn-retransmit-rate-limit are mutually exclusive

black-list-zero-win

Description Black list Src IP if zero window pkts exceed configured threshold

Type: number

Range: 1-250

Mutual Exclusion: black-list-zero-win and per-conn-zero-win-rate-limit are mutually exclusive

conn-rate-limit-on-syn-only

Description Only count SYN-initiated connections towards connection-rate tracking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

create-conn-on-syn-only

Description Enable connection establishment on SYN only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop-known-resp-src-port-cfg

Description: drop-known-resp-src-port-cfg is a **JSON Block**. Please see below for *drop-known-resp-src-port-cfg*

Type: Object

dst

Description: dst is a **JSON Block**. Please see below for *dst*

Type: Object

filter-list

Type: List

Reference Object: */axapi/v3/ddos/template/tcp/{name}/filter/{tcp-filter-seq}*

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

per-conn-out-of-seq-rate-action

Description 'drop': Drop packets for out-of-seq rate exceed (Default); 'blacklist-src': help Blacklist-src for out-of-seq rate exceed; 'ignore': help Ignore out-of-seq rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

per-conn-out-of-seq-rate-limit

Description Take action if out-of-seq pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-out-of-seq-rate-limit and black-list-out-of-seq are mutually exclusive

per-conn-pkt-rate-action

Description 'drop': Drop packets for per-conn-pkt-rate exceed (Default); 'blacklist-src': help Blacklist-src for per-conn-pkt-rate exceed; 'ignore': Ignore per-conn-pkt-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

per-conn-pkt-rate-limit

Description Packet rate limit per connection per rate-interval

Type: number

Range: 1-16000000

per-conn-rate-interval

Description '100ms': 100ms; '1sec': 1sec; '10sec': 10sec;

Type: string

Supported Values: 100ms, 1sec, 10sec

Default: 1sec

per-conn-retransmit-rate-action

Description 'drop': Drop packets for retransmit rate exceed (Default); 'blacklist-src': help Blacklist-src for retransmit rate exceed; 'ignore': help Ignore retransmit rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

per-conn-retransmit-rate-limit

Description Take action if retransmit pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-retransmit-rate-limit and black-list-retransmit are mutually exclusive

per-conn-zero-win-rate-action

Description 'drop': Drop packets for zero-win rate exceed (Default); 'blacklist-src': help Blacklist-src for zero-win rate exceed; 'ignore': help Ignore zero-win rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

per-conn-zero-win-rate-limit

Description Take action if zero window pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-zero-win-rate-limit and black-list-zero-win are mutually exclusive

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking*

src

Description: src is a **JSON Block**. Please see below for *src*

Type: Object

syn-auth

Description 'send-rst': Send RST to client upon client ACK; 'force-rst-by-ack': Force client RST via the use of ACK; 'force-rst-by-synack': Force client RST via the use of bad SYN|ACK; 'disable': Disable TCP SYN Authentication;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, disable, send-rst-once

Default: send-rst

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

synack-rate-limit

Description Config SYNACK rate limit

Type: number

Range: 1-16000000

Mutual Exclusion: synack-rate-limit and track-together-with-syn are mutually exclusive

track-together-with-syn

Description SYNACK will be counted in Dst Syn-rate limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: track-together-with-syn and synack-rate-limit are mutually exclusive

tunnel-encap

Description: tunnel-encap is a **JSON Block**. Please see below for *tunnel-encap*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tunnel-encap

Specification	Value
Type	*object*

gre-cfg

Description: gre-cfg is a **JSON Block**. Please see below for *tunnel-encap_gre-cfg*

Type: Object

ip-cfg

Description: ip-cfg is a **JSON Block**. Please see below for *tunnel-encap_ip-cfg*

Type: Object

tunnel-encap_ip-cfg

Specification	Value
Type	*object*

always

Description: always is a **JSON Block**. Please see below for *tunnel-encap_ip-cfg_always*

Type: Object

ip-encap

Description Enable Tunnel encapsulation using IP in IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap_ip-cfg_always

Specification	Value
Type	*object*

ipv4-addr

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

ipv6-addr

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

preserve-src-ipv4

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

preserve-src-ipv6

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap_gre-cfg

Specification	Value
Type	*object*

gre-always

Description: gre-always is a **JSON Block**. Please see below for *tunnel-encap_gre-cfg_gre-always*

Type: Object

gre-encap

Description Enable Tunnel encapsulation using GRE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap_gre-cfg_gre-always

Specification	Value
Type	*object*

gre-ipv4

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

gre-ipv6

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

key-ipv4

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

key-ipv6

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

preserve-src-ipv4-gre

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

preserve-src-ipv6-gre

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *dst_rate-limit*

Type: Object

dst_rate-limit

Specification	Value
Type	*object*

syn-rate-limit

Description: syn-rate-limit is a **JSON Block**. Please see below for *dst_rate-limit_syn-rate-limit*

Type: Object

dst_rate-limit_syn-rate-limit

Specification	Value
Type	*object*

dst-syn-rate-action

Description 'drop': Drop packets for syn-rate exceed (Default); 'ignore': Ignore syn-rate-exceed;

Type: string

Supported Values: drop, ignore

Default: drop

dst-syn-rate-limit

Description

Type: number

Range: 1-16000000

action-cfg

Specification	Value
Type	*object*

action-on-ack

Description Monitor tcp ack for age-out session

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

authenticate-only

Description Apply action-on-ack once per source address for authentication purpose

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

min-retry-gap

Description Min gap between 2 ACKs for action-on-ack pass in 100ms interval

Type: number

Range: 1-80

reset

Description Send RST to client

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

rto-authentication

Description Estimate the RTO and apply the exponential back-off for authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description ACK retry timeout in sec

Type: number

Range: 1-31

progression-tracking

Specification	Value
Type	*object*

ignore-TLS-handshake

Description Ignore TLS handshake, support SSL-L4 port only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

mitigation

Description: mitigation is a **JSON Block**. Please see below for *progression-tracking_mitigation*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation*

profiling

Description: profiling is a **JSON Block**. Please see below for *progression-tracking_profiling*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/profiling*

progression-tracking-enabled

Description 'enable-check': Enable Progression Tracking Check;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

progression-tracking_mitigation

Specification	Value
Type	*object*

connection-tracking

Description: connection-tracking is a **JSON Block**. Please see below for *progression-tracking_mitigation_connection-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/connection-tracking*

request-tracking

Description: request-tracking is a **JSON Block**. Please see below for *progression-tracking_mitigation_request-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/request-tracking*

slow-attack

Description: slow-attack is a **JSON Block**. Please see below for *progression-tracking_mitigation_slow-attack*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/slow-attack*

time-window-tracking

Description: time-window-tracking is a **JSON Block**. Please see below for *progression-tracking_mitigation_time-window-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/time-window-tracking*

progression-tracking_mitigation_time-window-tracking

Specification	Value
Type	*object*

progression-tracking-win-enabled

Description 'enable-check': Enable Progression Tracking per Time Window;

Type: string

Supported Values: enable-check

Default: enable-check

progression-tracking-windows-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-windows-action and progression-tracking-windows-action-list-name are mutually exclusive

progression-tracking-windows-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-windows-action-list-name and progression-tracking-windows-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

window-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

window-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

window-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

window-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

window-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking_mitigation_slow-attack

Specification	Value
Type	*object*

init-request-max-time

Description Set client query time (in unit of 100ms). Suggested value larger than 30 secs

Type: number

Range: 2-6000

init-response-max-time

Description Set server think time (in unit of 100ms). Suggested value larger than 45 secs

Type: number

Range: 2-6000

progression-tracking-slow-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-slow-action and progression-tracking-slow-action-list-name are mutually exclusive

progression-tracking-slow-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-slow-action-list-name and progression-tracking-slow-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

response-pkt-rate-max

Description Set the transferred packets per response

Type: number

Range: 1-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

progression-tracking_mitigation_connection-tracking

Specification	Value
Type	*object*

conn-duration-max

Description Set the maximum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-duration-min

Description Set the minimum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

conn-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

conn-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

conn-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

conn-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

conn-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

conn-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking-conn-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-conn-action and progression-tracking-conn-action-list-name are mutually exclusive

progression-tracking-conn-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-conn-action-list-name and progression-tracking-conn-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-conn-enabled

Description 'enable-check': Enable General Progression Tracking per Connection;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

progression-tracking_mitigation_request-tracking

Specification	Value
Type	*object*

first-request-max-time

Description Set the maximum idle time before the first request (in unit of 100ms)

Type: number

Range: 1-65535

progression-tracking-req-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-req-action and progression-tracking-req-action-list-name are mutually exclusive

progression-tracking-req-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-req-action-list-name and progression-tracking-req-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-req-enabled

Description 'enable-check': Enable General Progression Tracking per Request Response;

Type: string

Supported Values: enable-check

Default: enable-check

request-length-max

Description Set the maximum request length

Type: number

Range: 1-65535

request-length-min

Description Set the minimum request length

Type: number

Range: 1-65535

request-response-model

Description 'enable': Enable Request Response Model (Default); 'disable': Disable Request Response Model;

Type: string

Supported Values: enable, disable

Default: enable

request-to-response-max-time

Description Set the maximum request to response time (in unit of 100ms)

Type: number

Range: 1-65535

response-length-max

Description Set the maximum response length

Type: number

Range: 1-4294967295

response-length-min

Description Set the minimum response length

Type: number

Range: 1-65535

response-to-request-max-time

Description Set the maximum response to request time (in unit of 100ms)

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking_profiling

Specification	Value
Type	*object*

profiling-connection-life-model

Description Enable auto-config progression tracking learning for connection model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-request-response-model

Description Enable auto-config progression tracking learning for request response model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-time-window-model

Description Enable auto-config progression tracking learning for time window model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-5

tcp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *src_rate-limit*

Type: Object

src_rate-limit

Specification	Value
Type	*object*

syn-rate-limit

Description: syn-rate-limit is a **JSON Block**. Please see below for *src_rate-limit_syn-rate-limit*

Type: Object

src_rate-limit_syn-rate-limit

Specification	Value
Type	*object*

src-syn-rate-action

Description 'drop': Drop packets for syn-rate exceed (Default); 'blacklist-src': Blacklist-src for syn-rate exceed; 'ignore': Ignore syn-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

src-syn-rate-limit

Description

Type: number

Range: 1-16000000

action-syn-cfg

Specification	Value
Type	*object*

action-on-syn

Description Monitor tcp syn for age-out session

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-on-syn-gap

Description Min gap between 2 SYNs for action-on-syn pass in 100ms interval

Type: number

Range: 1-80

action-on-syn-reset

Description Send RST to client

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-on-syn-rto

Description Estimate the RTO and apply the exponential back-off for authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-on-syn-timeout

Description SYN retry timeout in sec

Type: number

Range: 1-31

drop-known-resp-src-port-cfg

Specification	Value
Type	*object*

drop-known-resp-src-port

Description Drop well-known if src-port is less than 1024

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exclude-src-resp-port

Description excluding src port equal destination port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

2.33.516 ddos template tcp filter

TCP Filter Configuration

filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*tcp-filter-seq*
Collection Name	*filter-list*
Collection URI	/axapi/v3/ddos/template/tcp/{name}/filter
Element Name	filter
Element URI	/axapi/v3/ddos/template/tcp/{name}/filter/{tcp-filter-seq}
Element Attributes	filter_attributes
Partition Visibility	shared
Schema	`filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/tcp/{name}/filter

filter attributes

Create List

POST

/axapi/v3/ddos/template/tcp/{name}/filter

filter attributes

Get Object

GET

/axapi/v3/ddos/template/tcp/{name}/filter/{tcp-filter-seq}

filter attributes

Get List

GET

/axapi/v3/ddos/template/tcp/{name}/filter

filter-list

Modify Object

POST

/axapi/v3/ddos/template/tcp/{name}/filter/{tcp-filter-seq}

filter attributes

Replace Object

PUT

/axapi/v3/ddos/template/tcp/{name}/filter/{tcp-filter-seq}

filter attributes

Replace List

PUT

/axapi/v3/ddos/template/tcp/{name}/filter

filter-list

Delete Object

DELETE

/axapi/v3/ddos/template/tcp/{name}/filter/{tcp-filter-seq}

filter attributes

filter-list

filter-list is **JSON List** of *filter attributes*

filter-list : [

{ *filter attributes* },

{ *filter attributes* },

...

]

filter attributes

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-5

tcp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.517 ddos template tcp progression-tracking

Configure and enable TCP Progression Tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/template/tcp/{name}/progression-tracking
Element Attributes	progression-tracking_attributes
Partition Visibility	shared
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/tcp/{name}/progression-tracking

progression-tracking attributes

```
POST /axapi/v3/ddos/template/tcp/a/progression-tracking
Payload:
{
    "progression-tracking": {
        "progression-tracking-enabled": "enable-check",
        "ignore-TLS-handshake": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/template/tcp/{name}/progression-tracking

progression-tracking attributes

```
GET /axapi/v3/ddos/template/tcp/a/progression-tracking
Reponse:
{
    "progression-tracking": {
        "progression-tracking-enabled": "enable-check",
        "ignore-TLS-handshake": 1,
        "uuid": "5cb3d27c-0888-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/template/tcp/a/progression-tracking"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/template/tcp/{name}/progression-tracking

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/template/tcp/{name}/progression-tracking

progression-tracking attributes

```
PUT /axapi/v3/ddos/template/tcp/a/progression-tracking
Payload:
{
    "progression-tracking": {
        "progression-tracking-enabled": "enable-check",
        "ignore-TLS-handshake": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/template/tcp/{name}/progression-tracking

progression-tracking attributes

```
DELETE /axapi/v3/ddos/template/tcp/a/progression-tracking
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

progression-tracking attributes

ignore-TLS-handshake

Description Ignore TLS handshake, support SSL-L4 port only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

mitigation

Description: mitigation is a **JSON Block**. Please see below for *mitigation*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation*

profiling

Description: profiling is a **JSON Block**. Please see below for *profiling*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/profiling*

progression-tracking-enabled

Description 'enable-check': Enable Progression Tracking Check;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mitigation

Specification	Value
Type	*object*

connection-tracking

Description: connection-tracking is a **JSON Block**. Please see below for *mitigation_connection-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/connection-tracking*

request-tracking

Description: request-tracking is a **JSON Block**. Please see below for *mitigation_request-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/request-tracking*

slow-attack

Description: slow-attack is a **JSON Block**. Please see below for *mitigation_slow-attack*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/slow-attack*

time-window-tracking

Description: time-window-tracking is a **JSON Block**. Please see below for *mitigation_time-window-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/time-window-tracking*

mitigation_time-window-tracking

Specification	Value
Type	*object*

progression-tracking-win-enabled

Description 'enable-check': Enable Progression Tracking per Time Window;

Type: string

Supported Values: enable-check

Default: enable-check

progression-tracking-windows-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-windows-action and progression-tracking-windows-action-list-name are mutually exclusive

progression-tracking-windows-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-windows-action-list-name and progression-tracking-windows-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

window-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

window-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

window-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

window-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

window-violation

Description Set the violation threshold

Type: number

Range: 1-255

mitigation_slow-attack

Specification	Value
Type	*object*

init-request-max-time

Description Set client query time (in unit of 100ms). Suggested value larger than 30 secs

Type: number

Range: 2-6000

init-response-max-time

Description Set server think time (in unit of 100ms). Suggested value larger than 45 secs

Type: number

Range: 2-6000

progression-tracking-slow-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-slow-action and progression-tracking-slow-action-list-name are mutually exclusive

progression-tracking-slow-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-slow-action-list-name and progression-tracking-slow-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

response-pkt-rate-max

Description Set the transferred packets per response

Type: number

Range: 1-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mitigation_connection-tracking

Specification	Value
Type	*object*

conn-duration-max

Description Set the maximum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-duration-min

Description Set the minimum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

conn-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

conn-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

conn-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

conn-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

conn-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

conn-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking-conn-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-conn-action and progression-tracking-conn-action-list-name are mutually exclusive

progression-tracking-conn-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-conn-action-list-name and progression-tracking-conn-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-conn-enabled

Description 'enable-check': Enable General Progression Tracking per Connection;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mitigation_request-tracking

Specification	Value
Type	*object*

first-request-max-time

Description Set the maximum idle time before the first request (in unit of 100ms)

Type: number

Range: 1-65535

progression-tracking-req-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-req-action and progression-tracking-req-action-list-name are mutually exclusive

progression-tracking-req-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-req-action-list-name and progression-tracking-req-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-req-enabled

Description 'enable-check': Enable General Progression Tracking per Request Response;

Type: string

Supported Values: enable-check

Default: enable-check

request-length-max

Description Set the maximum request length

Type: number

Range: 1-65535

request-length-min

Description Set the minimum request length

Type: number

Range: 1-65535

request-response-model

Description 'enable': Enable Request Response Model (Default); 'disable': Disable Request Response Model;

Type: string

Supported Values: enable, disable

Default: enable

request-to-response-max-time

Description Set the maximum request to response time (in unit of 100ms)

Type: number

Range: 1-65535

response-length-max

Description Set the maximum response length

Type: number

Range: 1-4294967295

response-length-min

Description Set the minimum response length

Type: number

Range: 1-65535

response-to-request-max-time

Description Set the maximum response to request time (in unit of 100ms)

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation

Description Set the violation threshold

Type: number

Range: 1-255

profiling

Specification	Value
Type	*object*

profiling-connection-life-model

Description Enable auto-config progression tracking learning for connection model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-request-response-model

Description Enable auto-config progression tracking learning for request response model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-time-window-model

Description Enable auto-config progression tracking learning for time window model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.518 ddos template tcp progression-tracking mitigation

Configure and enable TCP Progression Tracking Mitigation

mitigation Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	mitigation
Element URI	/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation
Element Attributes	mitigation_attributes
Partition Visibility	shared
Schema	`mitigation schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation

mitigation_attributes

```
GET /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation
Reponse:
{
    "mitigation": {
        "request-tracking": {
            "progression-tracking-req-enabled": "enable-check",
            "request-response-model": "enable",
            "progression-tracking-req-action": "drop",
            "uuid": "75438648-0888-11f0-b674-001fa04507c0",
            "a10-url": "/axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/
↪request-tracking"
        },
        "a10-url": "/axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation"
```

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```
    }
}
```

mitigation attributes

connection-tracking

Description: connection-tracking is a **JSON Block**. Please see below for *connection-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/connection-tracking*

request-tracking

Description: request-tracking is a **JSON Block**. Please see below for *request-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/request-tracking*

slow-attack

Description: slow-attack is a **JSON Block**. Please see below for *slow-attack*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/slow-attack*

time-window-tracking

Description: time-window-tracking is a **JSON Block**. Please see below for *time-window-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/time-window-tracking*

time-window-tracking

Specification	Value
Type	*object*

progression-tracking-win-enabled

Description 'enable-check': Enable Progression Tracking per Time Window;

Type: string

Supported Values: enable-check

Default: enable-check

progression-tracking-windows-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-windows-action and progression-tracking-windows-action-list-name are mutually exclusive

progression-tracking-windows-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-windows-action-list-name and progression-tracking-windows-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

window-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

window-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

window-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

window-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

window-violation

Description Set the violation threshold

Type: number

Range: 1-255

slow-attack

Specification	Value
Type	*object*

init-request-max-time

Description Set client query time (in unit of 100ms). Suggested value larger than 30 secs

Type: number

Range: 2-6000

init-response-max-time

Description Set server think time (in unit of 100ms). Suggested value larger than 45 secs

Type: number

Range: 2-6000

progression-tracking-slow-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-slow-action and progression-tracking-slow-action-list-name are mutually exclusive

progression-tracking-slow-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-slow-action-list-name and progression-tracking-slow-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

response-pkt-rate-max

Description Set the transferred packets per response

Type: number

Range: 1-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

connection-tracking

Specification	Value
Type	*object*

conn-duration-max

Description Set the maximum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-duration-min

Description Set the minimum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

conn-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

conn-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

conn-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

conn-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

conn-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

conn-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking-conn-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-conn-action and progression-tracking-conn-action-list-name are mutually exclusive

progression-tracking-conn-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-conn-action-list-name and progression-tracking-conn-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-conn-enabled

Description 'enable-check': Enable General Progression Tracking per Connection;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

request-tracking

Specification	Value
Type	*object*

first-request-max-time

Description Set the maximum idle time before the first request (in unit of 100ms)

Type: number

Range: 1-65535

progression-tracking-req-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-req-action and progression-tracking-req-action-list-name are mutually exclusive

progression-tracking-req-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-req-action-list-name and progression-tracking-req-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-req-enabled

Description 'enable-check': Enable General Progression Tracking per Request Response;

Type: string

Supported Values: enable-check

Default: enable-check

request-length-max

Description Set the maximum request length

Type: number

Range: 1-65535

request-length-min

Description Set the minimum request length

Type: number

Range: 1-65535

request-response-model

Description 'enable': Enable Request Response Model; 'disable': Disable Request Response Model;

Type: string

Supported Values: enable, disable

Default: enable

request-to-response-max-time

Description Set the maximum request to response time (in unit of 100ms)

Type: number

Range: 1-65535

response-length-max

Description Set the maximum response length

Type: number

Range: 1-4294967295

response-length-min

Description Set the minimum response length

Type: number

Range: 1-65535

response-to-request-max-time

Description Set the maximum response to request time (in unit of 100ms)

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation

Description Set the violation threshold

Type: number

Range: 1-255

2.33.519 ddos template tcp progression-tracking mitigation connection-tracking

Configure and enable TCP Progression Tracking Mitigation per Connection

connection-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	connection-tracking
Element URI	/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/connection-tracking
Element Attributes	connection-tracking_attributes
Partition Visibility	shared
Schema	`connection-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/connection-tracking

connection-tracking attributes

```
POST /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/connection-tracking
Payload:
{
    "connection-tracking": {
        "progression-tracking-conn-enabled": "enable-check",
        "conn-sent-max": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/connection-tracking

connection-tracking attributes

```
GET /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/connection-tracking
Reponse:
{
    "connection-tracking": {
        "progression-tracking-conn-enabled": "enable-check",
        "conn-sent-max": 1,
        "progression-tracking-conn-action": "drop",
        "uuid": "874ea1d8-0888-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/
↪connection-tracking"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/connection-tracking

connection-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/connection-tracking

connection-tracking attributes

```
PUT /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/connection-tracking
Payload:
{
    "connection-tracking": {
        "progression-tracking-conn-enabled": "enable-check",
        "conn-sent-max": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/connection-tracking

connection-tracking attributes

```
DELETE /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/connection-tracking
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
```

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```
        "msg": "Success"
    }
}
```

connection-tracking attributes

conn-duration-max

Description Set the maximum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-duration-min

Description Set the minimum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

conn-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

conn-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

conn-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

conn-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

conn-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

conn-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking-conn-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-conn-action and progression-tracking-conn-action-list-name are mutually exclusive

progression-tracking-conn-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-conn-action-list-name and progression-tracking-conn-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-conn-enabled

Description 'enable-check': Enable General Progression Tracking per Connection;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.520 ddos template tcp progression-tracking mitigation request-tracking

Configure and enable TCP Progression Tracking Mitigation per Request response

request-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	request-tracking
Element URI	/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/request-tracking
Element Attributes	request-tracking_attributes
Partition Visibility	shared
Schema	`request-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/request-tracking

request-tracking attributes

```
POST /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/request-tracking
Payload:
{
    "request-tracking": {
        "progression-tracking-req-enabled": "enable-check",
        "request-response-model": "enable"
    }
}
```

Get Object

GET

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/request-tracking

request-tracking attributes

```
GET /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/request-tracking
Reponse:
{
    "request-tracking": {
        "progression-tracking-req-enabled": "enable-check",
        "request-response-model": "enable",
        "progression-tracking-req-action": "drop",
        "uuid": "b646ed24-0888-11f0-b674-001fa04507c0",
```

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```
        "a10-url": "/axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/
↪request-tracking"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/request-tracking

request-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/request-tracking

request-tracking attributes

```
PUT /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/request-tracking
Payload:
{
    "request-tracking": {
        "progression-tracking-req-enabled": "enable-check",
        "response-length-max": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/request-tracking

request-tracking attributes

```
DELETE /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/request-tracking
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

request-tracking attributes

first-request-max-time

Description Set the maximum idle time before the first request (in unit of 100ms)

Type: number

Range: 1-65535

progression-tracking-req-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-req-action and progression-tracking-req-action-list-name are mutually exclusive

progression-tracking-req-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-req-action-list-name and progression-tracking-req-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-req-enabled

Description 'enable-check': Enable General Progression Tracking per Request Response;

Type: string

Supported Values: enable-check

Default: enable-check

request-length-max

Description Set the maximum request length

Type: number

Range: 1-65535

request-length-min

Description Set the minimum request length

Type: number

Range: 1-65535

request-response-model

Description 'enable': Enable Request Response Model; 'disable': Disable Request Response Model;

Type: string

Supported Values: enable, disable

Default: enable

request-to-response-max-time

Description Set the maximum request to response time (in unit of 100ms)

Type: number

Range: 1-65535

response-length-max

Description Set the maximum response length

Type: number

Range: 1-4294967295

response-length-min

Description Set the minimum response length

Type: number

Range: 1-65535

response-to-request-max-time

Description Set the maximum response to request time (in unit of 100ms)

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation

Description Set the violation threshold

Type: number

Range: 1-255

2.33.521 ddos template tcp progression-tracking mitigation slow-attack

Configure and enable TCP progression Tracking Mitigation for slow attack (identify slow attacker)

slow-attack Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	slow-attack
Element URI	/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/slow-attack
Element Attributes	slow-attack_attributes
Partition Visibility	shared
Schema	`slow-attack schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/slow-attack

slow-attack attributes

```
POST /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/slow-attack
Payload:
{
    "slow-attack": {
        "init-response-max-time": 2
    }
}
```

Get Object

GET

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/slow-attack

slow-attack attributes

```
GET /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/slow-attack
Reponse:
{
    "slow-attack": {
        "init-response-max-time": 2,
        "progression-tracking-slow-action": "drop",
        "uuid": "e230c450-0888-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/slow-
↪attack"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/slow-attack

slow-attack attributes

Replace Object

PUT

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/slow-attack

slow-attack attributes

```
PUT /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/slow-attack
Payload:
{
    "slow-attack": {
        "init-response-max-time": 3
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/slow-attack

slow-attack attributes

```
DELETE /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/slow-attack
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

slow-attack attributes

init-request-max-time

Description Set client query time (in unit of 100ms). Suggested value larger than 30 secs

Type: number

Range: 2-6000

init-response-max-time

Description Set server think time (in unit of 100ms). Suggested value larger than 45 secs

Type: number

Range: 2-6000

progression-tracking-slow-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-slow-action and progression-tracking-slow-action-list-name are mutually exclusive

progression-tracking-slow-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-slow-action-list-name and progression-tracking-slow-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

response-pkt-rate-max

Description Set the transferred packets per response

Type: number

Range: 1-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.522 ddos template tcp progression-tracking mitigation time-window-tracking

Configure and enable TCP Progression Tracking Mitigation per Time Window

time-window-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	time-window-tracking
Element URI	/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/time-window-tracking
Element Attributes	time-window-tracking_attributes
Partition Visibility	shared
Schema	`time-window-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/time-window-tracking

time-window-tracking attributes

```
POST /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/time-window-tracking
Payload:
{
    "time-window-tracking": {
        "progression-tracking-win-enabled": "enable-check",
        "window-sent-max": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/time-window-tracking

time-window-tracking attributes

```
GET /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/time-window-tracking
Reponse:
{
    "time-window-tracking": {
        "progression-tracking-win-enabled": "enable-check",
        "window-sent-max": 1,
        "progression-tracking-windows-action": "drop",
        "uuid": "f9f73768-0888-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/time-
↪window-tracking"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/time-window-tracking

time-window-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/time-window-tracking

time-window-tracking attributes

```
PUT /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/time-window-tracking
Payload:
{
    "time-window-tracking": {
        "progression-tracking-win-enabled": "enable-check",
        "window-sent-max": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/mitigation/time-window-tracking

time-window-tracking attributes

```
DELETE /axapi/v3/ddos/template/tcp/a/progression-tracking/mitigation/time-window-tracking
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

time-window-tracking attributes

progression-tracking-win-enabled

Description 'enable-check': Enable Progression Tracking per Time Window;

Type: string

Supported Values: enable-check

Default: enable-check

progression-tracking-windows-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-windows-action and progression-tracking-windows-action-list-name are mutually exclusive

progression-tracking-windows-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-windows-action-list-name and progression-tracking-windows-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

window-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

window-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

window-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

window-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

window-violation

Description Set the violation threshold

Type: number

Range: 1-255

2.33.523 ddos template tcp progression-tracking profiling

Configure and enable TCP Progression Tracking Profiling

profiling Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	profiling
Element URI	/axapi/v3/ddos/template/tcp/{name}/progression-tracking/profiling
Element Attributes	profiling_attributes
Partition Visibility	shared
Schema	`profiling schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/profiling

profiling attributes

```
POST /axapi/v3/ddos/template/tcp/a/progression-tracking/profiling
Payload:
{
    "profiling": {
        "profiling-request-response-model": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/profiling

profiling attributes

```
GET /axapi/v3/ddos/template/tcp/a/progression-tracking/profiling
Reponse:
{
    "profiling": {
        "profiling-request-response-model": 1,
        "profiling-connection-life-model": 0,
        "uuid": "21ea4c24-0889-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/template/tcp/a/progression-tracking/profiling"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/profiling

profiling attributes

Replace Object

PUT

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/profiling

profiling attributes

```
PUT /axapi/v3/ddos/template/tcp/a/progression-tracking/profiling
Payload:
{
    "profiling": {
        "profiling-request-response-model": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/template/tcp/{name}/progression-tracking/profiling

profiling attributes

```
DELETE /axapi/v3/ddos/template/tcp/a/progression-tracking/profiling
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

profiling attributes

profiling-connection-life-model

Description Enable auto-config progression tracking learning for connection model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-request-response-model

Description Enable auto-config progression tracking learning for request response model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-time-window-model

Description Enable auto-config progression tracking learning for time window model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.524 ddos template udp

UDP template configuration

udp Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*udp-list*
Collection URI	/axapi/v3/ddos/template/udp
Element Name	udp
Element URI	/axapi/v3/ddos/template/udp/{name}
Element Attributes	udp_attributes
Partition Visibility	shared
Schema	`udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/udp

udp attributes

```
POST /axapi/v3/ddos/template/udp/
Payload:
{
    "udp": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/template/udp

udp attributes

Get Object

GET

/axapi/v3/ddos/template/udp/{name}

udp attributes

```
GET /axapi/v3/ddos/template/udp/a
Reponse:
{
    "udp": {
        "name": "a",
        "per-conn-rate-interval": "1sec",
        "tunnel-encap": {
            "ip-encap": 0
        },
        "spoof-detect-cfg": {
            "spoof-detect": 0
        },
        "drop-known-resp-src-port-cfg": {
            "drop-known-resp-src-port": 0
        },
        "drop-ntp-monlist": 0,
        "token-authentication": 0,
        "token-authentication-salt-prefix": 0,
        "previous-salt-timeout": 1,
        "token-authentication-public-address": 0,
        "uuid": "3460fefc-0889-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/template/udp/a"
```

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```
    }
}
```

Get List

GET

/axapi/v3/ddos/template/udp

udp-list

Modify Object

POST

/axapi/v3/ddos/template/udp/{name}

udp attributes

Replace Object

PUT

/axapi/v3/ddos/template/udp/{name}

udp attributes

```
PUT /axapi/v3/ddos/template/udp/a
Payload:
{
    "udp": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/template/udp

udp-list

Delete Object

DELETE

/axapi/v3/ddos/template/udp/{name}

udp attributes

```
DELETE /axapi/v3/ddos/template/udp/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

udp-list

udp-list is **JSON List** of *udp attributes*

udp-list : [

{ *udp attributes* },

{ *udp attributes* },

...

]

udp attributes

age

Description Configure session age(in minutes) for UDP sessions

Type: number

Range: 1-63

drop-known-resp-src-port-cfg

Description: drop-known-resp-src-port-cfg is a **JSON Block**. Please see below for *drop-known-resp-src-port-cfg*

Type: Object

drop-ntp-monlist

Description Drop NTP monlist request/response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

filter-list

Type: List

Reference Object: */axapi/v3/ddos/template/udp/{name}/filter/{udp-filter-seq}*

max-payload-size

Description Maximum UDP payload size for each single packet

Type: number

Range: 1-1470

min-payload-size

Description Minimum UDP payload size for each single packet

Type: number

Range: 1-1470

name

Description DDOS UDP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

per-conn-pkt-rate-limit

Description Packet rate limit per connection per rate-interval

Type: number

Range: 1-16000000

per-conn-rate-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

previous-salt-timeout

Description Token-Authentication previous salt-prefix timeout in minutes, default is 1 min

Type: number

Range: 1-10080

Default: 1

public-ipv4-addr

Description IP address

Type: string

Format: ipv4-address

public-ipv6-addr

Description IPV6 address

Type: string

Format: ipv6-address

spoof-detect-cfg

Description: spoof-detect-cfg is a **JSON Block**. Please see below for *spoof-detect-cfg*

Type: Object

token-authentication

Description Enable Token Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-formula

Description 'md5_Salt-SrcIp-SrcPort-DstIp-DstPort': md5 of Salt-SrcIp-SrcPort-DstIp-DstPort; 'md5_Salt-DstIp-DstPort': md5 of Salt-DstIp-DstPort; 'md5_Salt-SrcIp-DstIp': md5 of Salt-SrcIp-DstIp; 'md5_Salt-SrcPort-DstPort': md5 of Salt-SrcPort-DstPort; 'md5_Salt-UintDstIp-DstPort': Using the uint value of IP for md5 of Salt-DstIp-DstPort; 'sha1_Salt-SrcIp-SrcPort-DstIp-DstPort': sha1 of Salt-SrcIp-SrcPort-DstIp-DstPort; 'sha1_Salt-DstIp-DstPort': sha1 of Salt-DstIp-DstPort; 'sha1_Salt-SrcIp-DstIp': sha1 of Salt-SrcIp-DstIp; 'sha1_Salt-SrcPort-DstPort': sha1 of Salt-SrcPort-DstPort; 'sha1_Salt-UintDstIp-DstPort': Using the uint value of IP for sha1 of Salt-DstIp-DstPort;

Type: string

Supported Values: md5_Salt-SrcIp-SrcPort-DstIp-DstPort, md5_Salt-DstIp-DstPort, md5_Salt-SrcIp-DstIp, md5_Salt-SrcPort-DstPort, md5_Salt-UintDstIp-DstPort, sha1_Salt-SrcIp-SrcPort-DstIp-DstPort, sha1_Salt-DstIp-DstPort, sha1_Salt-SrcIp-DstIp, sha1_Salt-SrcPort-DstPort, sha1_Salt-UintDstIp-DstPort

token-authentication-hw-assist-disable

Description token-authentication disable hardware assistance

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-public-address

Description The server public IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-salt-prefix

Description token-authentication salt-prefix

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-salt-prefix-curr

Description

Type: number

Range: 1-4294967295

token-authentication-salt-prefix-prev

Description

Type: number

Range: 1-4294967295

tunnel-encap

Description: tunnel-encap is a **JSON Block**. Please see below for *tunnel-encap*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tunnel-encap

Specification	Value
Type	*object*

always

Description: always is a **JSON Block**. Please see below for *tunnel-encap_always*

Type: Object

gre-always

Description: gre-always is a **JSON Block**. Please see below for *tunnel-encap_gre-always*

Type: Object

gre-encap

Description Enable Tunnel encapsulation using GRE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: gre-encap and ip-encap are mutually exclusive

ip-encap

Description Enable Tunnel encapsulation using IP in IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: ip-encap and gre-encap are mutually exclusive

tunnel-encap_gre-always

Specification	Value
Type	*object*

gre-ipv4

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

gre-ipv6

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

key-ipv4

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

key-ipv6

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

preserve-src-ipv4-gre

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

preserve-src-ipv6-gre

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap_always

Specification	Value
Type	*object*

ipv4-addr

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

ipv6-addr

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

preserve-src-ipv4

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

preserve-src-ipv6

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

spoof-detect-cfg

Specification	Value
Type	*object*

min-retry-gap

Description Optional minimum gap between 2 UDP packets for spoof-detect pass, unit is specified by min-retry-gap-interval

Type: number

Range: 1-80

min-retry-gap-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

spoof-detect

Description Force client to retry on udp

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

spoof-detect-retry-timeout

Description timeout in seconds

Type: number

Range: 1-31

Default: 5

Mutual Exclusion: spoof-detect-retry-timeout and spoof-detect-retry-timeout-val-only are mutually exclusive

spoof-detect-retry-timeout-val-only

Description timeout in seconds

Type: number

Range: 1-31

Default: 5

Mutual Exclusion: spoof-detect-retry-timeout-val-only and spoof-detect-retry-timeout are mutually exclusive

drop-known-resp-src-port-cfg

Specification	Value
Type	*object*

drop-known-resp-src-port

Description Drop well-known if src-port is less than 1024

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

exclude-src-resp-port

Description excluding src port equal destination port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-5

udp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.525 ddos template udp filter

UDP Filter Configuration

filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*udp-filter-seq*
Collection Name	*filter-list*
Collection URI	/axapi/v3/ddos/template/udp/{name}/filter
Element Name	filter
Element URI	/axapi/v3/ddos/template/udp/{name}/filter/{udp-filter-seq}
Element Attributes	filter_attributes
Partition Visibility	shared
Schema	`filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/template/udp/{name}/filter

filter attributes

Create List

POST

/axapi/v3/ddos/template/udp/{name}/filter

filter attributes

Get Object

GET

/axapi/v3/ddos/template/udp/{name}/filter/{udp-filter-seq}

filter attributes

Get List

GET

/axapi/v3/ddos/template/udp/{name}/filter

filter-list

Modify Object

POST

/axapi/v3/ddos/template/udp/{name}/filter/{udp-filter-seq}

filter attributes

Replace Object

PUT

/axapi/v3/ddos/template/udp/{name}/filter/{udp-filter-seq}

filter attributes

Replace List

PUT

/axapi/v3/ddos/template/udp/{name}/filter

filter-list

Delete Object

DELETE

/axapi/v3/ddos/template/udp/{name}/filter/{udp-filter-seq}

filter attributes

filter-list

filter-list is **JSON List** of *filter attributes*

filter-list : [

{ *filter attributes* },

{ *filter attributes* },

...

]

filter attributes

byte-offset-filter

Description Filter Expression using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'blacklist-src': Also blacklist the source when action is taken; 'whitelist-src': Whitelist the source after filter passes, packets are dropped until then; 'count-only': Take no action and continue processing the next filter;

Type: string

Supported Values: blacklist-src, whitelist-src, count-only

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-5

udp-filter-unmatched

Description action taken when it does not match

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.526 ddos token-auth

token authentication stats counters

token-auth Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	token-auth
Element URI	/axapi/v3/ddos/token-auth
Element Attributes	token-auth_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/token-auth/stats
Schema	`token-auth schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/token-auth

token-auth attributes

Get Object

GET

/axapi/v3/ddos/token-auth

token-auth attributes

Modify Object

POST

/axapi/v3/ddos/token-auth

token-auth attributes

Replace Object

PUT

/axapi/v3/ddos/token-auth

token-auth attributes

Delete Object

DELETE

/axapi/v3/ddos/token-auth

token-auth attributes

token-auth attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.527 ddos token-auth stats

Statistics for the object token-auth

token-auth Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	token-auth
Element URI	/axapi/v3/ddos/token-auth/stats
Element Attributes	token-auth_attributes
Partition Visibility	None
Schema	`token-auth schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/token-auth/stats

token-auth attributes

Get Object

GET

/axapi/v3/ddos/token-auth/stats

token-auth attributes

Modify Object

POST

/axapi/v3/ddos/token-auth/stats

token-auth attributes

Replace Object

PUT

/axapi/v3/ddos/token-auth/stats

token-auth attributes

Delete Object

DELETE

/axapi/v3/ddos/token-auth/stats

token-auth attributes

token-auth attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

token_authentication_invalid

Description Token Authentication Invalid Packets

Type: number

Format: counter

token_authentication_matched

Description Token Authentication Matched Packets

Type: number

Format: counter

token_authentication_mismatched

Description Token Authentication Mismatched Packets

Type: number

Format: counter

2.33.528 ddos token-authentication

DDOS Token Authentication Configuration

token-authentication Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	token-authentication
Element URI	/axapi/v3/ddos/token-authentication
Element Attributes	token-authentication_attributes
Partition Visibility	shared
Schema	`token-authentication schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/token-authentication

token-authentication_attributes

token-authentication attributes

authenticated-list

Description: authenticated-list is a **JSON Block**. Please see below for *authenticated-list*

Type: Object

Reference Object: */axapi/v3/ddos/token-authentication/authenticated-list*

player-mode

Description: player-mode is a **JSON Block**. Please see below for *player-mode*

Type: Object

Reference Object: */axapi/v3/ddos/token-authentication/player-mode*

players-list

Type: List

Reference Object: */axapi/v3/ddos/token-authentication/players/{src-ip}+{src-port}+{dst-ip}+{dst-port}*

secret-salt

Description: secret-salt is a **JSON Block**. Please see below for *secret-salt*

Type: Object

Reference Object: */axapi/v3/ddos/token-authentication/secret-salt*

summary

Description: summary is a **JSON Block**. Please see below for *summary*

Type: Object

Reference Object: */axapi/v3/ddos/token-authentication/summary*

authenticated-list

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

player-mode

Specification	Value
Type	*object*

mode

Description 'one-to-one': Only one player talks to one server; 'many-to-one': Many player talk to one server;

Type: string

Supported Values: one-to-one, many-to-one

Default: many-to-one

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

summary

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

secret-salt

Specification	Value
Type	*object*

current-salt

Description Current salt value

Type: number

Range: 0-4294967295

previous-salt

Description Previous salt value

Type: number

Range: 0-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

players-list

Specification	Value
Type	*list*
Block object keys	

dst-ip

Description

Type: string

Format: ipv4-address

dst-port

Description

Type: number

Range: 0-65535

magic-value

Description

Type: number

Range: 0-4294967295

src-ip

Description

Type: string

Format: ipv4-address

src-port

Description

Type: number

Range: 0-65535

2.33.529 ddos token-authentication authenticated-list

Token-Authentication authenticated player list

authenticated-list Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	authenticated-list
Element URI	/axapi/v3/ddos/token-authentication/authenticated-list
Element Attributes	authenticated-list_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/token-authentication/authenticated-list/oper
Schema	`authenticated-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/token-authentication/authenticated-list

authenticated-list attributes

Get Object

GET

/axapi/v3/ddos/token-authentication/authenticated-list

authenticated-list attributes

Modify Object

POST

/axapi/v3/ddos/token-authentication/authenticated-list

authenticated-list attributes

Replace Object

PUT

/axapi/v3/ddos/token-authentication/authenticated-list

authenticated-list attributes

Delete Object

DELETE

/axapi/v3/ddos/token-authentication/authenticated-list

authenticated-list attributes

authenticated-list attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.530 ddos token-authentication authenticated-list oper

Operational Status for the object authenticated-list

authenticated-list Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	authenticated-list
Element URI	/axapi/v3/ddos/token-authentication/authenticated-list/oper
Element Attributes	authenticated-list_attributes
Partition Visibility	None
Schema	`authenticated-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/token-authentication/authenticated-list/oper

authenticated-list attributes

Get Object

GET

/axapi/v3/ddos/token-authentication/authenticated-list/oper

authenticated-list attributes

Modify Object

POST

/axapi/v3/ddos/token-authentication/authenticated-list/oper

authenticated-list attributes

Replace Object

PUT

/axapi/v3/ddos/token-authentication/authenticated-list/oper

authenticated-list attributes

Delete Object

DELETE

/axapi/v3/ddos/token-authentication/authenticated-list/oper

authenticated-list attributes

authenticated-list attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

player-list

Type: List

oper_player-list

Specification	Value
Type	*list*
Block object keys	

dst-ip-str

Description

Type: string

Format: string-rlx

dst-port

Description

Type: number

src-ip-str

Description

Type: string

Format: string-rlx

src-port

Description

Type: number

token

Description

Type: number

2.33.531 ddos token-authentication player-mode

Token Authentication Player Mode

player-mode Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	player-mode
Element URI	/axapi/v3/ddos/token-authentication/player-mode
Element Attributes	player-mode_attributes
Partition Visibility	shared
Schema	`player-mode schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/token-authentication/player-mode

player-mode attributes

```
POST /axapi/v3/ddos/token-authentication/player-mode
Payload:
{
    "player-mode": {
        "mode": "one-to-one"
    }
}
```

Get Object

GET

/axapi/v3/ddos/token-authentication/player-mode

player-mode attributes

```
GET /axapi/v3/ddos/token-authentication/player-mode
Reponse:
{
    "player-mode": {
        "mode": "one-to-one",
        "uuid": "befe2724-0889-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/token-authentication/player-mode"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/token-authentication/player-mode

player-mode attributes

Replace Object

PUT

/axapi/v3/ddos/token-authentication/player-mode

player-mode attributes

```
PUT /axapi/v3/ddos/token-authentication/player-mode
Payload:
{
    "player-mode": {
        "mode": "one-to-one"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/token-authentication/player-mode

player-mode attributes

```
DELETE /axapi/v3/ddos/token-authentication/player-mode
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Player-mode change will take effect only after write memory followed by␣
↪a reload/reboot.\nOne-to-One-Mode need to bind glid with conn-limit is 1\n"
    }
}
```

player-mode attributes

mode

Description 'one-to-one': Only one player talks to one server; 'many-to-one': Many player talk to one server;

Type: string

Supported Values: one-to-one, many-to-one

Default: many-to-one

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.532 ddos token-authentication secret-salt

Token Authentication Secret Salt

secret-salt Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	secret-salt
Element URI	/axapi/v3/ddos/token-authentication/secret-salt
Element Attributes	secret-salt_attributes
Partition Visibility	shared
Schema	`secret-salt schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/token-authentication/secret-salt

secret-salt attributes

```
POST /axapi/v3/ddos/token-authentication/secret-salt
Payload:
{
    "secret-salt": {
        "current-salt": 0,
        "previous-salt": 0
    }
}
```

Get Object

GET

/axapi/v3/ddos/token-authentication/secret-salt

secret-salt attributes

```
GET /axapi/v3/ddos/token-authentication/secret-salt
Reponse:
{
    "secret-salt": {
        "current-salt": 0,
        "previous-salt": 0,
        "uuid": "d9653e22-0889-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/token-authentication/secret-salt"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/token-authentication/secret-salt

secret-salt attributes

Replace Object

PUT

/axapi/v3/ddos/token-authentication/secret-salt

secret-salt attributes

```
PUT /axapi/v3/ddos/token-authentication/secret-salt
Payload:
{
    "secret-salt": {
        "current-salt": 0,
        "previous-salt": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/token-authentication/secret-salt

secret-salt attributes

```
DELETE /axapi/v3/ddos/token-authentication/secret-salt
Reponse:
{
    "response": {
        "http-status": 200,
```

(continues on next page)

(continued from previous page)

```
        "status": "OK",
        "msg": "Success"
    }
}
```

secret-salt attributes

current-salt

Description Current salt value

Type: number

Range: 0-4294967295

previous-salt

Description Previous salt value

Type: number

Range: 0-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.533 ddos token-authentication summary

Token-Authentication Summary

summary Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	summary
Element URI	/axapi/v3/ddos/token-authentication/summary
Element Attributes	summary_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/ddos/token-authentication/summary/oper
Schema	`summary schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/token-authentication/summary

summary attributes

Get Object

GET

/axapi/v3/ddos/token-authentication/summary

summary attributes

Modify Object

POST

/axapi/v3/ddos/token-authentication/summary

summary attributes

Replace Object

PUT

/axapi/v3/ddos/token-authentication/summary

summary attributes

Delete Object

DELETE

/axapi/v3/ddos/token-authentication/summary

summary attributes

summary attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.534 ddos token-authentication summary oper

Operational Status for the object summary

summary Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	summary
Element URI	/axapi/v3/ddos/token-authentication/summary/oper
Element Attributes	summary_attributes
Partition Visibility	None
Schema	`summary schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/token-authentication/summary/oper

summary attributes

Get Object

GET

/axapi/v3/ddos/token-authentication/summary/oper

summary attributes

Modify Object

POST

/axapi/v3/ddos/token-authentication/summary/oper

summary attributes

Replace Object

PUT

/axapi/v3/ddos/token-authentication/summary/oper

summary attributes

Delete Object

DELETE

/axapi/v3/ddos/token-authentication/summary/oper

summary attributes

summary attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

player-mode

Description

Type: string

2.33.535 ddos tunnel

tunnel counters

tunnel Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tunnel
Element URI	/axapi/v3/ddos/tunnel
Element Attributes	tunnel_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/ddos/tunnel/stats
Schema	`tunnel schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/tunnel

tunnel attributes

Get Object

GET

/axapi/v3/ddos/tunnel

tunnel attributes

Modify Object

POST

/axapi/v3/ddos/tunnel

tunnel attributes

Replace Object

PUT

/axapi/v3/ddos/tunnel

tunnel attributes

Delete Object

DELETE

/axapi/v3/ddos/tunnel

tunnel attributes

tunnel attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.536 ddos tunnel stats

Statistics for the object tunnel

tunnel Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tunnel
Element URI	/axapi/v3/ddos/tunnel/stats
Element Attributes	tunnel_attributes
Partition Visibility	None
Schema	`tunnel schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/tunnel/stats

tunnel attributes

Get Object

GET

/axapi/v3/ddos/tunnel/stats

tunnel attributes

Modify Object

POST

/axapi/v3/ddos/tunnel/stats

tunnel attributes

Replace Object

PUT

/axapi/v3/ddos/tunnel/stats

tunnel attributes

Delete Object

DELETE

/axapi/v3/ddos/tunnel/stats

tunnel attributes

tunnel attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ip6_esp_tunnel_inspect

Description ESP V6 Tunnel Inspect

Type: number

Format: counter

ip6_esp_tunnel_inspect_fail

Description ESP V6 Tunnel Inspect Fail

Type: number

Format: counter

ip6_esp_tunnel_rcvd

Description ESP V6 Tunnel Received

Type: number

Format: counter

ip6_gre_tunnel_decap

Description GRE V6 Tunnel Decap

Type: number

Format: counter

ip6_gre_tunnel_decap_drop

Description GRE V6 Tunnel Decap No Key Dropped

Type: number

Format: counter

ip6_gre_tunnel_decap_fail

Description GRE V6 Tunnel Decap Failed

Type: number

Format: counter

ip6_gre_tunnel_decap_key

Description GRE V6 Tunnel Decap W/ Key

Type: number

Format: counter

ip6_gre_tunnel_encap

Description GRE V6 Tunnel Encap

Type: number

Format: counter

ip6_gre_tunnel_encap_fail

Description GRE V6 Tunnel Encap Received Failed

Type: number

Format: counter

ip6_gre_tunnel_encap_key

Description GRE V6 Tunnel Encap W/ Key

Type: number

Format: counter

ip6_gre_tunnel_rate_limit_inner

Description GRE V6 Tunnel Rate Limit Inner Pkts

Type: number

Format: counter

ip6_gre_tunnel_rcvd

Description GRE V6 Tunnel Received

Type: number

Format: counter

ip6_tunnel_decap

Description IPv6 Tunnel Decap

Type: number

Format: counter

ip6_tunnel_decap_fail

Description IPv6 Tunnel Decap Failed

Type: number

Format: counter

ip6_tunnel_encap

Description IPv6 Tunnel Encap

Type: number

Format: counter

ip6_tunnel_encap_fail

Description IPv6 Tunnel Encap Failed

Type: number

Format: counter

ip6_tunnel_rate_limit_inner

Description IPv6 Tunnel Rate Limit Inner Pkts

Type: number

Format: counter

ip6_tunnel_rcvd

Description IPv6 Tunnel Received

Type: number

Format: counter

ip_esp_tunnel_inspect

Description ESP Tunnel Inspect

Type: number

Format: counter

ip_esp_tunnel_inspect_fail

Description ESP Tunnel Inspect Fail

Type: number

Format: counter

ip_esp_tunnel_rcvd

Description ESP Tunnel Received

Type: number

Format: counter

ip_gre_tunnel_decap

Description GRE Tunnel Decap

Type: number

Format: counter

ip_gre_tunnel_decap_drop

Description GRE Tunnel Decap Key Mismatch Dropped

Type: number

Format: counter

ip_gre_tunnel_decap_fail

Description GRE Tunnel Decap Failed

Type: number

Format: counter

ip_gre_tunnel_decap_key

Description GRE Tunnel Decap W/ Key

Type: number

Format: counter

ip_gre_tunnel_encap

Description GRE Tunnel Encap

Type: number

Format: counter

ip_gre_tunnel_encap_fail

Description GRE Tunnel Encap Failed

Type: number

Format: counter

ip_gre_tunnel_encap_key

Description GRE Tunnel Encap W/ Key

Type: number

Format: counter

ip_gre_tunnel_keepalive_rcvd

Description GRE Tunnel Keep-Alive Received

Type: number

Format: counter

ip_gre_tunnel_rate_limit_inner

Description GRE Tunnel Rate Limit Inner Pkts

Type: number

Format: counter

ip_gre_tunnel_rcvd

Description GRE Tunnel Received

Type: number

Format: counter

ip_tunnel_decap

Description IPv4 Tunnel Decap

Type: number

Format: counter

ip_tunnel_decap_fail

Description IPv4 Tunnel Decap Failed

Type: number

Format: counter

ip_tunnel_encap

Description IPv4 Tunnel Encap

Type: number

Format: counter

ip_tunnel_encap_fail

Description IPv4 Tunnel Encap Failed

Type: number

Format: counter

ip_tunnel_rate_limit_inner

Description IPv4 Tunnel Rate Limit Inner Pkts

Type: number

Format: counter

ip_tunnel_rcvd

Description IPv4 Tunnel Received

Type: number

Format: counter

ip_vxlan_tunnel_decap

Description IP VxLAN Decap

Type: number

Format: counter

ip_vxlan_tunnel_decap_err

Description IP VxLAN Decap Error

Type: number

Format: counter

ip_vxlan_tunnel_invalid_vni

Description IP VxLAN Invalid VNI

Type: number

Format: counter

ip_vxlan_tunnel_rcvd

Description IP VxLAN Received

Type: number

Format: counter

jumbo_in_tunnel_drop

Description Jumbo Packet in Tunnel Drop

Type: number

Format: counter

2.33.537 ddos udp-port stats

Statistics for the object udp-port

udp-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*udp-port-list*
Collection URI	/axapi/v3/ddos/udp-port
Element Name	udp-port
Element URI	/axapi/v3/ddos/udp-port/stats
Element Attributes	udp-port_attributes
Partition Visibility	None
Schema	`udp-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/udp-port

udp-port attributes

Create List

POST

/axapi/v3/ddos/udp-port

udp-port attributes

Get Object

GET

/axapi/v3/ddos/udp-port/stats

udp-port attributes

Get List

GET

/axapi/v3/ddos/udp-port

udp-port-list

Modify Object

POST

/axapi/v3/ddos/udp-port/stats

udp-port attributes

Replace Object

PUT

/axapi/v3/ddos/udp-port/stats

udp-port attributes

Replace List

PUT

/axapi/v3/ddos/udp-port

udp-port-list

Delete Object

DELETE

/axapi/v3/ddos/udp-port/stats

udp-port attributes

udp-port-list

udp-port-list is **JSON List** of *udp-port attributes*

udp-port-list : [

{ *udp-port attributes* },

{ *udp-port attributes* },

...

]

udp-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

bl

Description Dst Blacklisted

Type: number

Format: counter

conn_prate_excd

Description UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action Whitelist

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

ntp_monlist_req

Description NTP Monlist Request

Type: number

Format: counter

ntp_monlist_resp

Description NTP Monlist Response

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

payload_too_big

Description UDP Payload Too Large

Type: number

Format: counter

payload_too_small

Description UDP Payload Too Small

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

spoof_detect_fail

Description UDP Retry Timeout

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action Whitelist

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_ntp_monlist_req

Description Src NTP Monlist Request

Type: number

Format: counter

src_ntp_monlist_resp

Description Src NTP Monlist Response

Type: number

Format: counter

src_payload_too_big

Description Src UDP Payload Too Large

Type: number

Format: counter

src_payload_too_small

Description Src UDP Payload Too Small

Type: number

Format: counter

src_udp_auth_drop

Description Src UDP Auth Dropped

Type: number

Format: counter

src_udp_auth_timeout

Description Src UDP Retry Timeout

Type: number

Format: counter

src_udp_retry_gap_drop

Description Src UDP Retry-Gap Dropped

Type: number

Format: counter

src_udp_retry_init

Description Src UDP Retry Init

Type: number

Format: counter

src_udp_retry_pass

Description Src UDP Retry Passed

Type: number

Format: counter

src_well_known_port

Description Src UDP SrcPort Wellknown

Type: number

Format: counter

token_authentication_curr_salt_matched

Description Token Authentication Current Salt Matched

Type: number

Format: counter

token_authentication_invalid

Description Token Authentication Invalid Packets

Type: number

Format: counter

token_authentication_mismatched

Description Token Authentication Mismatched Packets

Type: number

Format: counter

token_authentication_prev_salt_matched

Description Token Authentication Previous Salt Matched

Type: number

Format: counter

token_authentication_session_created

Description Token Authentication Session Created

Type: number

Format: counter

token_authentication_session_created_fail

Description Token Authentication Session Created Fail

Type: number

Format: counter

udp_auth_drop

Description UDP Auth Dropped

Type: number

Format: counter

udp_retry_gap_drop

Description UDP Retry-Gap Dropped

Type: number

Format: counter

udp_retry_init

Description UDP Retry Init

Type: number

Format: counter

udp_retry_pass

Description UDP Retry Passed

Type: number

Format: counter

wellknown_sport_drop

Description UDP SrcPort Wellknown

Type: number

Format: counter

2.33.538 ddos udp-zone-port stats

Statistics for the object udp-zone-port

udp-zone-port Specification

Parameter	Value
Type	*Collection*
Collection Name	*udp-zone-port-list*
Collection URI	/axapi/v3/ddos/udp-zone-port
Element Name	udp-zone-port
Element URI	/axapi/v3/ddos/udp-zone-port/stats
Element Attributes	udp-zone-port_attributes
Partition Visibility	None
Schema	`udp-zone-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/udp-zone-port

udp-zone-port attributes

Create List

POST

/axapi/v3/ddos/udp-zone-port

udp-zone-port attributes

Get Object

GET

/axapi/v3/ddos/udp-zone-port/stats

udp-zone-port attributes

Get List

GET

/axapi/v3/ddos/udp-zone-port

udp-zone-port-list

Modify Object

POST

/axapi/v3/ddos/udp-zone-port/stats

udp-zone-port attributes

Replace Object

PUT

/axapi/v3/ddos/udp-zone-port/stats

udp-zone-port attributes

Replace List

PUT

/axapi/v3/ddos/udp-zone-port

udp-zone-port-list

Delete Object

DELETE

/axapi/v3/ddos/udp-zone-port/stats

udp-zone-port attributes

udp-zone-port-list

udp-zone-port-list is **JSON List** of *udp-zone-port attributes*

udp-zone-port-list : [

{ *udp-zone-port attributes* },

{ *udp-zone-port attributes* },

...

]

udp-zone-port attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

all_src_session_reset

Description Session Reset for All Src Upon Level Escalation

Type: number

Format: counter

bl

Description Dst Blacklisted

Type: number

Format: counter

clear_session_upon_deescalation

Description Clear Session Upon De-escalation to Level 0

Type: number

Format: counter

conn_prate_excd

Description UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

current_es_level

Description Current Escalation Level

Type: number

Format: counter

dst_hw_drop

Description Dst Hardware Packets Dropped

Type: number

Format: counter

dst_hw_drop_inserted

Description Dst Hardware Drop Rules Inserted

Type: number

Format: counter

dst_hw_drop_removed

Description Dst Hardware Drop Rules Removed

Type: number

Format: counter

dst_udp_retry_timeout_blacklist

Description UDP Retry Timeout Blacklisted

Type: number

Format: counter

dynamic_count_warn

Description dynamic-entry-count warning send

Type: number

Format: counter

ew_inbound_port_byte_drop

Description East-West Inbound Bytes Dropped

Type: number

Format: counter

ew_inbound_port_byte_rcv

Description East-West Inbound Bytes Recevied

Type: number

Format: counter

ew_inbound_port_byte_sent

Description East-West Inbound Bytes Forwarded

Type: number

Format: counter

ew_inbound_port_drop

Description East-West Inbound Packets Dropped

Type: number

Format: counter

ew_inbound_port_rcv

Description East-West Inbound Packets Received

Type: number

Format: counter

ew_inbound_port_sent

Description East-West Inbound Packets Forwarded

Type: number

Format: counter

ew_outbound_port_byte_drop

Description East-West Outbound Bytes Forwarded

Type: number

Format: counter

ew_outbound_port_byte_rcv

Description East-West Outbound Bytes Recevied

Type: number

Format: counter

ew_outbound_port_byte_sent

Description East-West Outbound Bytes Dropped

Type: number

Format: counter

ew_outbound_port_drop

Description East-West Outbound Packets Dropped

Type: number

Format: counter

ew_outbound_port_rcv

Description East-West Outbound Packets Received

Type: number

Format: counter

ew_outbound_port_sent

Description East-West Outbound Packets Forwarded

Type: number

Format: counter

exceed_action_drop

Description Exceed Action: Dropped

Type: number

Format: counter

exceed_action_tunnel

Description Exceed Action: Tunnel

Type: number

Format: counter

exceed_drop_brate_src

Description Src KiBit Rate Exceeded

Type: number

Format: counter

exceed_drop_brate_src_pkt

Description Src KiBit Rate Exceeded Count

Type: number

Format: counter

exceed_drop_climit_src

Description Src Conn Limit Exceeded

Type: number

Format: counter

exceed_drop_crate_src

Description Src Conn Rate Exceeded

Type: number

Format: counter

exceed_drop_prate_src

Description Src Pkt Rate Exceeded

Type: number

Format: counter

filter1_match

Description Filter1 Match

Type: number

Format: counter

filter2_match

Description Filter2 Match

Type: number

Format: counter

filter3_match

Description Filter3 Match

Type: number

Format: counter

filter4_match

Description Filter4 Match

Type: number

Format: counter

filter5_match

Description Filter5 Match

Type: number

Format: counter

filter_action_blacklist

Description Filter Action Blacklist

Type: number

Format: counter

filter_action_default_pass

Description Filter Action Default Pass

Type: number

Format: counter

filter_action_drop

Description Filter Action Drop

Type: number

Format: counter

filter_action_whitelist

Description Filter Action Whitelist

Type: number

Format: counter

filter_auth_fail

Description Filter Auth Failed

Type: number

Format: counter

filter_none_match

Description Filter No Match

Type: number

Format: counter

filter_total_not_match

Description Filter Not Matched on Pkt

Type: number

Format: counter

frag_drop

Description Fragmented Packets Dropped

Type: number

Format: counter

frag_rcvd

Description Fragmented Packets Received

Type: number

Format: counter

frag_timeout

Description Fragmented Packets Timeout

Type: number

Format: counter

ip_filtering_bl

Description IP Filtering Policy: Blacklisted

Type: number

Format: counter

ip_filtering_drop

Description IP Filtering Policy: Dropped

Type: number

Format: counter

no_policy_class_list_match

Description No Policy Class-list Match

Type: number

Format: counter

no_route_drop

Description No Route Dropped

Type: number

Format: counter

ntp_monlist_req

Description NTP Monlist Request

Type: number

Format: counter

ntp_monlist_resp

Description NTP Monlist Response

Type: number

Format: counter

outbound_port_bytes

Description Outbound Bytes Received

Type: number

Format: counter

outbound_port_bytes_drop

Description Outbound Bytes Dropped

Type: number

Format: counter

outbound_port_bytes_sent

Description Outbound Bytes Forwarded

Type: number

Format: counter

outbound_port_drop

Description Outbound Packets Dropped

Type: number

Format: counter

outbound_port_pkt_sent

Description Outbound Packets Forwarded

Type: number

Format: counter

outbound_port_rcvd

Description Outbound Packets Received

Type: number

Format: counter

pattern_filter1_match

Description Extracted Filter1 Match

Type: number

Format: counter

pattern_filter2_match

Description Extracted Filter2 Match

Type: number

Format: counter

pattern_filter3_match

Description Extracted Filter3 Match

Type: number

Format: counter

pattern_filter4_match

Description Extracted Filter4 Match

Type: number

Format: counter

pattern_filter5_match

Description Extracted Filter5 Match

Type: number

Format: counter

pattern_filter_drop

Description Extracted Filter Drop

Type: number

Format: counter

pattern_not_found

Description Pattern Recognition: Pattern Not Found

Type: number

Format: counter

pattern_recognition_generic_error

Description Pattern Recognition: Exceptions

Type: number

Format: counter

pattern_recognition_pattern_changed

Description Pattern Recognition: Pattern Change Detected

Type: number

Format: counter

pattern_recognition_proceeded

Description Pattern Recognition: Engine Started

Type: number

Format: counter

pattern_recognition_sampling_started

Description Pattern Recognition: Sampling Started

Type: number

Format: counter

payload_too_big

Description UDP Payload Too Large

Type: number

Format: counter

payload_too_small

Description UDP Payload Too Small

Type: number

Format: counter

port_bytes

Description Inbound Bytes Received

Type: number

Format: counter

port_bytes_drop

Description Inbound Bytes Dropped

Type: number

Format: counter

port_bytes_sent

Description Inbound Bytes Forwarded

Type: number

Format: counter

port_conn_limm_exceed

Description Conn Limit Exceeded

Type: number

Format: counter

port_conn_rate_exceed

Description Conn Rate Exceeded

Type: number

Format: counter

port_drop

Description Inbound Packets Dropped

Type: number

Format: counter

port_kbit_rate_exceed

Description KiBit Rate Exceeded

Type: number

Format: counter

port_kbit_rate_exceed_pkt

Description KiBit Rate Exceeded Count

Type: number

Format: counter

port_pkt_rate_exceed

Description Packet Rate Exceeded

Type: number

Format: counter

port_pkt_sent

Description Inbound Packets Forwarded

Type: number

Format: counter

port_rcvd

Description Inbound Packets Received

Type: number

Format: counter

port_src_bl

Description Src Blacklisted

Type: number

Format: counter

port_src_escalation

Description Src Escalation

Type: number

Format: counter

same_sport_dport_drop

Description Same Source and Destination Port Drop

Type: number

Format: counter

secondary_port_conn_limm_exceed

Description Per Addr-Port Conn Limit Exceeded

Type: number

Format: counter

secondary_port_conn_rate_exceed

Description Per Addr-Port Conn Rate Exceeded

Type: number

Format: counter

secondary_port_hit

Description Per Addr-Port Hit

Type: number

Format: counter

secondary_port_kbit_rate_exceed

Description Per Addr-Port KiBit Rate Exceeded

Type: number

Format: counter

secondary_port_kbit_rate_exceed_pkt

Description Per Addr-Port KiBit Rate Exceeded Count

Type: number

Format: counter

secondary_port_pkt_rate_exceed

Description Per Addr-Port Packet Rate Exceeded

Type: number

Format: counter

sess_aged

Description Sessions Aged Out

Type: number

Format: counter

sess_create

Description Session Create

Type: number

Format: counter

sess_create_inbound

Description Inbound Sessions Created

Type: number

Format: counter

sess_create_outbound

Description Outbound Sessions Created

Type: number

Format: counter

sflow_external_packets_sent

Description Sflow External Packets Sent

Type: number

Format: counter

sflow_external_samples_packed

Description Sflow External Samples Packed

Type: number

Format: counter

sflow_internal_packets_sent

Description Sflow Internal Packets Sent

Type: number

Format: counter

sflow_internal_samples_packed

Description Sflow Internal Samples Packed

Type: number

Format: counter

snat_fail

Description Source NAT Failure

Type: number

Format: counter

spoof_detect_fail

Description UDP Retry Timeout

Type: number

Format: counter

src_conn_pkt_rate_excd

Description Src UDP Conn Pkt Rate Exceeded

Type: number

Format: counter

src_drop

Description Src Packets Dropped

Type: number

Format: counter

src_filter1_match

Description Src Filter1 Match

Type: number

Format: counter

src_filter2_match

Description Src Filter2 Match

Type: number

Format: counter

src_filter3_match

Description Src Filter3 Match

Type: number

Format: counter

src_filter4_match

Description Src Filter4 Match

Type: number

Format: counter

src_filter5_match

Description Src Filter5 Match

Type: number

Format: counter

src_filter_action_blacklist

Description Src Filter Action Blacklist

Type: number

Format: counter

src_filter_action_default_pass

Description Src Filter Action Default Pass

Type: number

Format: counter

src_filter_action_drop

Description Src Filter Action Drop

Type: number

Format: counter

src_filter_action_whitelist

Description Src Filter Action Whitelist

Type: number

Format: counter

src_filter_auth_fail

Description Src Filter Auth Failed

Type: number

Format: counter

src_filter_none_match

Description Src Filter No Match

Type: number

Format: counter

src_filter_total_not_match

Description Src Filter Not Matched on Pkt

Type: number

Format: counter

src_frag_drop

Description Src Fragmented Packets Dropped

Type: number

Format: counter

src_hw_drop

Description Src Hardware Packets Dropped

Type: number

Format: counter

src_hw_drop_inserted

Description Src Hardware Drop Rules Inserted

Type: number

Format: counter

src_hw_drop_removed

Description Src Hardware Drop Rules Removed

Type: number

Format: counter

src_learn_overflow

Description Source Dynamic Entry Overflow

Type: number

Format: counter

src_ntp_monlist_req

Description Src NTP Monlist Request

Type: number

Format: counter

src_ntp_monlist_resp

Description Src NTP Monlist Response

Type: number

Format: counter

src_payload_too_big

Description Src UDP Payload Too Large

Type: number

Format: counter

src_payload_too_small

Description Src UDP Payload Too Small

Type: number

Format: counter

src_udp_auth_drop

Description Src UDP Auth Dropped

Type: number

Format: counter

src_udp_auth_timeout

Description Src UDP Retry Timeout

Type: number

Format: counter

src_udp_retry_gap_drop

Description Src UDP Retry-Gap Dropped

Type: number

Format: counter

src_udp_retry_init

Description Src UDP Retry Init

Type: number

Format: counter

src_udp_retry_pass

Description Src UDP Retry Passed

Type: number

Format: counter

src_well_known_port

Description Src UDP SrcPort Wellknown

Type: number

Format: counter

src_zone_service_entry_aged

Description SrcZoneService Entry Aged

Type: number

Format: counter

src_zone_service_entry_hit

Description SrcZoneService Entry Hit

Type: number

Format: counter

src_zone_service_entry_learned

Description SrcZoneService Entry Learned

Type: number

Format: counter

token_authentication_curr_salt_matched

Description Token Authentication Current Salt Matched

Type: number

Format: counter

token_authentication_invalid

Description Token Authentication Invalid Packets

Type: number

Format: counter

token_authentication_mismatched

Description Token Authentication Mismatched Packets

Type: number

Format: counter

token_authentication_prev_salt_matched

Description Token Authentication Previous Salt Matched

Type: number

Format: counter

token_authentication_session_created

Description Token Authentication Session Created

Type: number

Format: counter

token_authentication_session_created_fail

Description Token Authentication Session Created Fail

Type: number

Format: counter

udp_auth_drop

Description UDP Auth Dropped

Type: number

Format: counter

udp_retry_gap_drop

Description UDP Retry-Gap Dropped

Type: number

Format: counter

udp_retry_init

Description UDP Retry Init

Type: number

Format: counter

udp_retry_pass

Description UDP Retry Passed

Type: number

Format: counter

unauth_src_session_reset

Description Session Reset for Unauthenticated Src

Type: number

Format: counter

wellknown_sport_drop

Description UDP SrcPort Wellknown

Type: number

Format: counter

zone_src_udp_retry_timeout_blacklist

Description Src UDP Retry Timeout Blacklisted

Type: number

Format: counter

2.33.539 ddos use-default-route

Use default route for traffic

use-default-route Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	use-default-route
Element URI	/axapi/v3/ddos/use-default-route
Element Attributes	use-default-route_attributes
Partition Visibility	shared
Schema	`use-default-route schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/use-default-route

use-default-route attributes

```
POST /axapi/v3/ddos/use-default-route
Payload:
{
    "use-default-route": {
        "ethernet-start-cfg": [
            {
                "ethernet-start": 1,
                "ethernet-end": 1
            }
        ]
```

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```
    }
}
```

Get Object

GET

/axapi/v3/ddos/use-default-route

use-default-route attributes

```
GET /axapi/v3/ddos/use-default-route
Reponse:
{
    "use-default-route": {
        "ethernet-start-cfg": [
            {
                "ethernet-start": 1,
                "ethernet-end": 1
            }
        ],
        "uuid": "f285cda4-0889-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/use-default-route"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/use-default-route

use-default-route attributes

Replace Object

PUT

/axapi/v3/ddos/use-default-route

use-default-route attributes

```
PUT /axapi/v3/ddos/use-default-route
Payload:
{
    "use-default-route": {
        "ethernet-start-cfg": [
            {
                "ethernet-start": 2,
                "ethernet-end": 2
            }
        ]
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/use-default-route

use-default-route attributes

```
DELETE /axapi/v3/ddos/use-default-route
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

use-default-route attributes

ethernet-start-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ethernet-start-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description

Type: number

Format: interface

ethernet-start

Description Traffic receive from the ethernet port will use default route

Type: number

Format: interface

2.33.540 ddos violation-actions

Violation Actions Configuration

violation-actions Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*violation-actions-list*
Collection URI	/axapi/v3/ddos/violation-actions
Element Name	violation-actions
Element URI	/axapi/v3/ddos/violation-actions/{name}
Element Attributes	violation-actions_attributes
Partition Visibility	shared
Schema	`violation-actions schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/violation-actions

violation-actions attributes

```
POST /axapi/v3/ddos/violation-actions/
Payload:
{
    "violation-actions": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/violation-actions

violation-actions attributes

Get Object

GET

/axapi/v3/ddos/violation-actions/{name}

violation-actions attributes

```
GET /axapi/v3/ddos/violation-actions/a
Reponse:
{
```

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```
    "violation-actions": {
        "name": "a",
        "send-notification-only": 0,
        "uuid": "071aff50-088a-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/violation-actions/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/violation-actions

violation-actions-list

Modify Object

POST

/axapi/v3/ddos/violation-actions/{name}

violation-actions attributes

Replace Object

PUT

/axapi/v3/ddos/violation-actions/{name}

violation-actions attributes

```
PUT /axapi/v3/ddos/violation-actions/a
Payload:
{
    "violation-actions": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/violation-actions

violation-actions-list

Delete Object

DELETE

/axapi/v3/ddos/violation-actions/{name}

violation-actions attributes

```
DELETE /axapi/v3/ddos/violation-actions/a
```

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```
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

violation-actions-list

violation-actions-list is **JSON List** of *violation-actions attributes*

violation-actions-list : [

{ *violation-actions attributes* },

{ *violation-actions attributes* },

...

]

violation-actions attributes

blackhole

Description Blackhole the zone (in minute, 0 means infinite)

Type: number

Range: 0-30

blacklist-src

Description Blacklist-src (in min) (applied only for source action)

Type: number

Range: 1-30

execute-script

Description Specify DDOS script to run (applied only for zone action)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

execute-script-timeout

Description Timeout for script execution (in seconds) (applied only for zone action)

Type: number

Range: 5-20

name

Description DDOS violation-actions name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

notification

Type: List

send-notification-only

Description Forces TPS to only send out notification for the violation-action

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

notification

Specification	Value
Type	*list*
Block object keys	

notification-template

Description Specify the notification template name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/notification-template*

2.33.541 ddos zone-profile

Profile for DDoS zone thresholds

zone-profile Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*profile-name*
Collection Name	*zone-profile-list*
Collection URI	/axapi/v3/ddos/zone-profile
Element Name	zone-profile
Element URI	/axapi/v3/ddos/zone-profile/{profile-name}
Element Attributes	zone-profile_attributes
Partition Visibility	shared
Schema	`zone-profile schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-profile

zone-profile attributes

```
POST /axapi/v3/ddos/zone-profile/
Payload:
{
    "zone-profile": {
        "profile-name": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-profile

zone-profile attributes

Get Object

GET

/axapi/v3/ddos/zone-profile/{profile-name}

zone-profile attributes

```
GET /axapi/v3/ddos/zone-profile/a
Reponse:
{
    "zone-profile": {
```

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```
        "profile-name": "a",
        "uuid": "2801a93a-088a-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-profile/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/zone-profile

zone-profile-list

Modify Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}

zone-profile attributes

Replace Object

PUT

/axapi/v3/ddos/zone-profile/{profile-name}

zone-profile attributes

```
PUT /axapi/v3/ddos/zone-profile/a
Payload:
{
    "zone-profile": {
        "profile-name": "a"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-profile

zone-profile-list

Delete Object

DELETE

/axapi/v3/ddos/zone-profile/{profile-name}

zone-profile attributes

```
DELETE /axapi/v3/ddos/zone-profile/a
Reponse:
{
    "response": {
        "http-status": 200,
```

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```
        "status": "OK",
        "msg": "Success"
    }
}
```

zone-profile-list

zone-profile-list is **JSON List** of *zone-profile attributes*

zone-profile-list : [

{ *zone-profile attributes* },

{ *zone-profile attributes* },

...

]

zone-profile attributes

ip-proto

Description: ip-proto is a **JSON Block**. Please see below for *ip-proto*

Type: Object

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto*

port-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}*

port-range-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}*

profile-name

Description Profile for DDoS zone thresholds

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}/indicator/{indicator-name}*

port-num

Description Port Number

Type: number

Range: 1-65535

port-protocol

Description 'dns-tcp': dns-tcp; 'dns-udp': dns-udp; 'sip-tcp': sip-tcp; 'sip-udp': sip-udp; 'http': http; 'tcp': tcp; 'udp': udp; 'ssl-l4': ssl-l4; 'quic': quic;

Type: string

Supported Values: dns-tcp, dns-udp, sip-tcp, sip-udp, http, tcp, udp, ssl-l4, quic

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'concurrent-conns': concurrent-conns; 'conn-miss-rate': conn-miss-rate; 'syn-rate': syn-rate; 'fin-rate': fin-rate; 'rst-rate': rst-rate; 'small-window-ack-rate': small-window-ack-rate; 'empty-ack-rate': empty-ack-rate; 'small-payload-rate': small-payload-rate; 'syn-fin-ratio': syn-fin-ratio; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *port-list_indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *port-list_indicator-list_zone-threshold-cfg*

Type: Object

port-list_indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-list_indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

ip-proto

Specification	Value
Type	*object*

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}*

proto-number-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}*

ip-proto_proto-number-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator/{indicator-name}*

protocol-num

Description Protocol Number

Type: number

Range: 0-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'frag-rate': frag-rate; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *ip-proto_proto-number-list_indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *ip-proto_proto-number-list_indicator-list_zone-threshold-cfg*

Type: Object

ip-proto_proto-number-list_indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

ip-proto_proto-number-list_indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

ip-proto_proto-name-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator/{indicator-name}*

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6; 'gre': ip-proto gre; 'ipv4-encap': ip-proto IPv4 Encapsulation; 'ipv6-encap': ip-proto IPv6 Encapsulation;

Type: string

Supported Values: icmp-v4, icmp-v6, gre, ipv4-encap, ipv6-encap

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'frag-rate': frag-rate; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *ip-proto_proto-name-list_indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *ip-proto_proto-name-list_indicator-list_zone-threshold-cfg*

Type: Object

ip-proto_proto-name-list_indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

ip-proto_proto-name-list_indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-range-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/indicator/{indicator-name}*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 2-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-tcp': SIP-TCP Port; 'sip-udp': SIP-UDP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-tcp, sip-udp, quic

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-range-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'concurrent-conns': concurrent-conns; 'conn-miss-rate': conn-miss-rate; 'syn-rate': syn-rate; 'fin-rate': fin-rate; 'rst-rate': rst-rate; 'small-window-ack-rate': small-window-ack-rate; 'empty-ack-rate': empty-ack-rate; 'small-payload-rate': small-payload-rate; 'syn-fin-ratio': syn-fin-ratio; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *port-range-list_indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *port-range-list_indicator-list_zone-threshold-cfg*

Type: Object

port-range-list_indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

port-range-list_indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.542 ddos zone-profile ip-proto

DDOS IP protocol profile configuration

ip-proto Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	ip-proto
Element URI	/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto
Element Attributes	ip-proto_attributes
Partition Visibility	shared
Schema	`ip-proto schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto

ip-proto_attributes

ip-proto attributes

proto-name-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}*

proto-number-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}*

proto-number-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator/{indicator-name}*

protocol-num

Description Protocol Number

Type: number

Range: 0-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-number-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description ‘pkt-rate’: pkt-rate; ‘pkt-drop-rate’: pkt-drop-rate; ‘bit-rate’: bit-rate; ‘pkt-drop-ratio’: pkt-drop-ratio; ‘bytes-to-bytes-from-ratio’: bytes-to-bytes-from-ratio; ‘frag-rate’: frag-rate; ‘cpu-utilization’: cpu-utilization; ‘interface-utilization’: interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *proto-number-list_indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *proto-number-list_indicator-list_zone-threshold-cfg*

Type: Object

proto-number-list_indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

proto-number-list_indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

proto-name-list

Specification	Value
Type	*list*
Block object keys	

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator/{indicator-name}*

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6; 'gre': ip-proto gre; 'ipv4-encap': ip-proto IPv4 Encapsulation; 'ipv6-encap': ip-proto IPv6 Encapsulation;

Type: string

Supported Values: icmp-v4, icmp-v6, gre, ipv4-encap, ipv6-encap

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proto-name-list_indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'frag-rate': frag-rate; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *proto-name-list_indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *proto-name-list_indicator-list_zone-threshold-cfg*

Type: Object

proto-name-list_indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

proto-name-list_indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.543 ddos zone-profile ip-proto proto-name

DDOS IP protocol profile configuration

proto-name Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol*
Collection Name	*proto-name-list*
Collection URI	/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name
Element Name	proto-name
Element URI	/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}
Element Attributes	proto-name_attributes
Partition Visibility	shared
Schema	`proto-name schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name

proto-name attributes

Create List

POST

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name

proto-name attributes

Get Object

GET

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}

proto-name attributes

Get List

GET

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name

proto-name-list

Modify Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}

proto-name attributes

Replace Object

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}

proto-name attributes

Replace List

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name

proto-name-list

Delete Object

DELETE

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}

proto-name attributes

proto-name-list

proto-name-list is **JSON List** of *proto-name attributes*

proto-name-list : [

{ *proto-name attributes* },

{ *proto-name attributes* },

...

]

proto-name attributes

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator/{indicator-name}*

protocol

Description 'icmp-v4': ip-proto icmp-v4; 'icmp-v6': ip-proto icmp-v6; 'gre': ip-proto gre; 'ipv4-encap': ip-proto IPv4 Encapsulation; 'ipv6-encap': ip-proto IPv6 Encapsulation;

Type: string

Supported Values: icmp-v4, icmp-v6, gre, ipv4-encap, ipv6-encap

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'frag-rate': frag-rate; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *indicator-list_zone-threshold-cfg*

Type: Object

indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.544 ddos zone-profile ip-proto proto-name indicator

DDoS zone profile indicator config

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*indicator-name*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator/{indicator-name}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator/{indicator-name}

indicator attributes

Get List

GET

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator/{indicator-name}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator/{indicator-name}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-name/{protocol}/indicator/{indicator-name}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

indicator-list : [

{ *indicator attributes* },

{ *indicator attributes* },

...

]

indicator attributes

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'frag-rate': frag-rate; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *zone-threshold-cfg*

Type: Object

src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.545 ddos zone-profile ip-proto proto-number

DDOS IP protocol profile configuration

proto-number Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*protocol-num*
Collection Name	*proto-number-list*
Collection URI	/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number
Element Name	proto-number
Element URI	/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}
Element Attributes	proto-number_attributes
Partition Visibility	shared
Schema	`proto-number schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number

proto-number attributes

Create List

POST

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number

proto-number attributes

Get Object

GET

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}

proto-number attributes

Get List

GET

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number

proto-number-list

Modify Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}

proto-number attributes

Replace Object

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}

proto-number attributes

Replace List

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number

proto-number-list

Delete Object

DELETE

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}

proto-number attributes

proto-number-list

proto-number-list is **JSON List** of *proto-number attributes*

proto-number-list : [

{ *proto-number attributes* },

{ *proto-number attributes* },

...

]

proto-number attributes

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator/{indicator-name}*

protocol-num

Description Protocol Number

Type: number

Range: 0-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'frag-rate': frag-rate; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *indicator-list_zone-threshold-cfg*

Type: Object

indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.546 ddos zone-profile ip-proto proto-number indicator

DDoS zone profile indicator config

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*indicator-name*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator/{indicator-name}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator/{indicator-name}

indicator attributes

Get List

GET

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator/{indicator-name}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator/{indicator-name}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/zone-profile/{profile-name}/ip-proto/proto-number/{protocol-num}/indicator/{indicator-name}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

indicator-list : [

{ *indicator attributes* },

{ *indicator attributes* },

...

]

indicator attributes

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'frag-rate': frag-rate; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, frag-rate, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *zone-threshold-cfg*

Type: Object

src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.547 ddos zone-profile port

Port for DDoS Zone profile

port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-num, port-protocol*
Collection Name	*port-list*
Collection URI	/axapi/v3/ddos/zone-profile/{profile-name}/port
Element Name	port
Element URI	/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}
Element Attributes	port_attributes
Partition Visibility	shared
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/port

port attributes

Create List

POST

/axapi/v3/ddos/zone-profile/{profile-name}/port

port attributes

Get Object

GET

/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}

port attributes

Get List

GET

/axapi/v3/ddos/zone-profile/{profile-name}/port

port-list

Modify Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}

port attributes

Replace Object

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}

port attributes

Replace List

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/port

port-list

Delete Object

DELETE

/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}

port attributes

port-list

port-list is **JSON List** of *port attributes*

port-list : [

{ *port attributes* },

{ *port attributes* },

...

]

port attributes

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}/indicator/{indicator-name}*

port-num

Description Port Number

Type: number

Range: 1-65535

port-protocol

Description 'dns-tcp': dns-tcp; 'dns-udp': dns-udp; 'sip-tcp': sip-tcp; 'sip-udp': sip-udp; 'http': http; 'tcp': tcp; 'udp': udp; 'ssl-l4': ssl-l4; 'quic': quic;

Type: string

Supported Values: dns-tcp, dns-udp, sip-tcp, sip-udp, http, tcp, udp, ssl-l4, quic

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'concurrent-conns': concurrent-conns; 'conn-miss-rate': conn-miss-rate; 'syn-rate': syn-rate; 'fin-rate': fin-rate; 'rst-rate': rst-rate; 'small-window-ack-rate': small-window-ack-rate; 'empty-ack-rate': empty-ack-rate; 'small-payload-rate': small-payload-rate; 'syn-fin-ratio': syn-fin-ratio; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *indicator-list_zone-threshold-cfg*

Type: Object

indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.548 ddos zone-profile port indicator

DDoS zone profile indicator config

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*indicator-name*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}/indicator/{indicator-name}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}/indicator/{indicator-name}

indicator attributes

Get List

GET

/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}/indicator/{indicator-name}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}/indicator/{indicator-name}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/zone-profile/{profile-name}/port/{port-num}+{port-protocol}/indicator/{indicator-name}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

```
indicator-list : [
        { indicator attributes },
        { indicator attributes },
        ...
    ]
```

indicator attributes

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'concurrent-conns': concurrent-conns; 'conn-miss-rate': conn-miss-rate; 'syn-rate': syn-rate; 'fin-rate': fin-rate; 'rst-rate': rst-rate; 'small-window-ack-rate': small-window-ack-rate; 'empty-ack-rate': empty-ack-rate; 'small-payload-rate': small-payload-rate; 'syn-fin-ratio': syn-fin-ratio; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *zone-threshold-cfg*

Type: Object

src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.549 ddos zone-profile port-range

DDOS Port-Range & Protocol profile configuration

port-range Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-range-start, port-range-end, protocol*
Collection Name	*port-range-list*
Collection URI	/axapi/v3/ddos/zone-profile/{profile-name}/port-range
Element Name	port-range
Element URI	/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}
Element Attributes	port-range_attributes
Partition Visibility	shared
Schema	`port-range schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/port-range

port-range attributes

Create List

POST

/axapi/v3/ddos/zone-profile/{profile-name}/port-range

port-range attributes

Get Object

GET

/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Get List

GET

/axapi/v3/ddos/zone-profile/{profile-name}/port-range

port-range-list

Modify Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Replace Object

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

Replace List

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/port-range

port-range-list

Delete Object

DELETE

/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}

port-range attributes

port-range-list

port-range-list is **JSON List** of *port-range attributes*

port-range-list : [

{ *port-range attributes* },

{ *port-range attributes* },

...

]

port-range attributes

indicator-list

Type: List

Reference Object: */axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/indicator/{indicator-name}*

port-range-end

Description Port-Range End Port Number

Type: number

Range: 2-65535

port-range-start

Description Port-Range Start Port Number

Type: number

Range: 1-65535

protocol

Description 'dns-tcp': DNS-TCP Port; 'dns-udp': DNS-UDP Port; 'http': HTTP Port; 'tcp': TCP Port; 'udp': UDP Port; 'ssl-l4': SSL-L4 Port; 'sip-tcp': SIP-TCP Port; 'sip-udp': SIP-UDP Port; 'quic': QUIC Port;

Type: string

Supported Values: dns-tcp, dns-udp, http, tcp, udp, ssl-l4, sip-tcp, sip-udp, quic

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

indicator-list

Specification	Value
Type	*list*
Block object keys	

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'concurrent-conns': concurrent-conns; 'conn-miss-rate': conn-miss-rate; 'syn-rate': syn-rate; 'fin-rate': fin-rate; 'rst-rate': rst-rate; 'small-window-ack-rate': small-window-ack-rate; 'empty-ack-rate': empty-ack-rate; 'small-payload-rate': small-payload-rate; 'syn-fin-ratio': syn-fin-ratio; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *indicator-list_src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *indicator-list_zone-threshold-cfg*

Type: Object

indicator-list_src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

indicator-list_zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.550 ddos zone-profile port-range indicator

DDoS zone profile indicator config

indicator Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*indicator-name*
Collection Name	*indicator-list*
Collection URI	/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/indicator
Element Name	indicator
Element URI	/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/indicator/{indicator-name}
Element Attributes	indicator_attributes
Partition Visibility	shared
Schema	`indicator schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/indicator

indicator attributes

Create List

POST

/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/indicator

indicator attributes

Get Object

GET

/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/indicator/{indicator-name}

indicator attributes

Get List

GET

/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/indicator

indicator-list

Modify Object

POST

/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/indicator/{indicator-name}

indicator attributes

Replace Object

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/indicator/{indicator-name}

indicator attributes

Replace List

PUT

/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/indicator

indicator-list

Delete Object

DELETE

/axapi/v3/ddos/zone-profile/{profile-name}/port-range/{port-range-start}+{port-range-end}+{protocol}/indicator/{indicator-name}

indicator attributes

indicator-list

indicator-list is **JSON List** of *indicator attributes*

```
indicator-list : [
        { indicator attributes },
        { indicator attributes },
        ...
    ]
```

indicator attributes

indicator-name

Description 'pkt-rate': pkt-rate; 'pkt-drop-rate': pkt-drop-rate; 'bit-rate': bit-rate; 'pkt-drop-ratio': pkt-drop-ratio; 'bytes-to-bytes-from-ratio': bytes-to-bytes-from-ratio; 'concurrent-conns': concurrent-conns; 'conn-miss-rate': conn-miss-rate; 'syn-rate': syn-rate; 'fin-rate': fin-rate; 'rst-rate': rst-rate; 'small-window-ack-rate': small-window-ack-rate; 'empty-ack-rate': empty-ack-rate; 'small-payload-rate': small-payload-rate; 'syn-fin-ratio': syn-fin-ratio; 'cpu-utilization': cpu-utilization; 'interface-utilization': interface-utilization;

Type: string

Supported Values: pkt-rate, pkt-drop-rate, bit-rate, pkt-drop-ratio, bytes-to-bytes-from-ratio, concurrent-conns, conn-miss-rate, syn-rate, fin-rate, rst-rate, syn-ack-rate, small-window-ack-rate, empty-ack-rate, small-payload-rate, syn-fin-ratio, cpu-utilization, interface-utilization, learnt-sources

src-threshold-cfg

Description: src-threshold-cfg is a **JSON Block**. Please see below for *src-threshold-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zone-threshold-cfg

Description: zone-threshold-cfg is a **JSON Block**. Please see below for *zone-threshold-cfg*

Type: Object

src-threshold-cfg

Specification	Value
Type	*object*

src-threshold-large-num

Description Indicator per-src threshold

Type: number

Range: 1-10995116277760

src-threshold-num

Description Indicator per-src threshold

Type: number

Range: 1-2147483647

src-threshold-str

Description Indicator per-src threshold (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

zone-threshold-cfg

Specification	Value
Type	*object*

zone-threshold-large-num

Description Threshold for the entire zone

Type: number

Range: 1-10995116277760

zone-threshold-num

Description Threshold for the entire zone

Type: number

Range: 1-2147483647

zone-threshold-str

Description Threshold for the entire zone (Non-zero floating point)

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

2.33.551 ddos zone-src-port-template

Define a DDOS src template

zone-src-port-template Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	zone-src-port-template
Element URI	/axapi/v3/ddos/zone-src-port-template
Element Attributes	zone-src-port-template_attributes
Partition Visibility	shared
Schema	`zone-src-port-template schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/zone-src-port-template

zone-src-port-template_attributes

zone-src-port-template attributes

dns-list

Type: List

Reference Object: */axapi/v3/ddos/zone-src-port-template/dns/{name}*

tcp-list

Type: List

Reference Object: */axapi/v3/ddos/zone-src-port-template/tcp/{name}*

udp-list

Type: List

Reference Object: */axapi/v3/ddos/zone-src-port-template/udp/{name}*

udp-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-src-port-template/udp/{name}/filter/{udp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

max-payload-size-cfg

Description: max-payload-size-cfg is a **JSON Block**. Please see below for *udp-list_max-payload-size-cfg*

Type: Object

min-payload-size-cfg

Description: min-payload-size-cfg is a **JSON Block**. Please see below for *udp-list_min-payload-size-cfg*

Type: Object

name

Description DDOS UDP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ntp-monlist-cfg

Description: ntp-monlist-cfg is a **JSON Block**. Please see below for *udp-list_ntp-monlist-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

udp-list_ntp-monlist-cfg

Specification	Value
Type	*object*

ntp-monlist

Description Take action for ntp monlist request/response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ntp-monlist-action

Description 'drop': Drop packets for ntp-monlist (Default); 'blacklist-src': Blacklist-src for ntp-monlist; 'ignore': Ignore ntp-monlist;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: ntp-monlist-action and ntp-monlist-action-list-name are mutually exclusive

ntp-monlist-action-list-name

Description Configure action-list to take for ntp-monlist

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ntp-monlist-action-list-name and ntp-monlist-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

udp-list_max-payload-size-cfg

Specification	Value
Type	*object*

max-payload-size

Description Maximum UDP payload size for each single packet

Type: number

Range: 1-1470

max-payload-size-action

Description 'drop': Drop packets for max-payload-size exceed (Default); 'blacklist-src': Blacklist-src for max-payload-size exceed; 'ignore': Do nothing for max-payload-size exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: max-payload-size-action and max-payload-size-action-list-name are mutually exclusive

max-payload-size-action-list-name

Description Configure action-list to take for max-payload-size exceed

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

Mutual Exclusion: max-payload-size-action-list-name and max-payload-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

udp-list_min-payload-size-cfg

Specification	Value
Type	*object*

min-payload-size

Description Minimum UDP payload size for each single packet

Type: number

Range: 1-1470

min-payload-size-action

Description 'drop': Drop packets for min-payload-size (Default); 'blacklist-src': Blacklist-src for min-payload-size; 'ignore': Do nothing for min-payload-size exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: min-payload-size-action and min-payload-size-action-list-name are mutually exclusive

min-payload-size-action-list-name

Description Configure action-list to take for min-payload-size exceed

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

Mutual Exclusion: min-payload-size-action-list-name and min-payload-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

udp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Mutual Exclusion: udp-filter-action and udp-filter-action-list-name are mutually exclusive

udp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp-filter-action-list-name and udp-filter-action are mutually exclusive

udp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-list

Specification	Value
Type	*list*
Block object keys	

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

query-resolution-check

Description: query-resolution-check is a **JSON Block**. Please see below for *dns-list_query-resolution-check*

Type: Object

Reference Object: */axapi/v3/ddos/zone-src-port-template/dns/{name}/query-resolution-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-list_query-resolution-check

Specification	Value
Type	*object*

big-response-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

big-response-size

Description Max DNS response size (in Bytes)

Type: number

Range: 1-4096

domain-lockup-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

session-timeout-value

Description max session timeout (secs) between DNS external server and Protected object

Type: number

Range: 1-30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-src-port-template/tcp/{name}/filter/{tcp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Mutual Exclusion: tcp-filter-action and tcp-filter-action-list-name are mutually exclusive

tcp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp-filter-action-list-name and tcp-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

tcp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.552 ddos zone-src-port-template dns

DNS template Configuration

dns Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*dns-list*
Collection URI	/axapi/v3/ddos/zone-src-port-template/dns
Element Name	dns
Element URI	/axapi/v3/ddos/zone-src-port-template/dns/{name}
Element Attributes	dns_attributes
Partition Visibility	shared
Schema	`dns schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-src-port-template/dns

dns attributes

Create List

POST

/axapi/v3/ddos/zone-src-port-template/dns

dns attributes

Get Object

GET

/axapi/v3/ddos/zone-src-port-template/dns/{name}

dns attributes

Get List

GET

/axapi/v3/ddos/zone-src-port-template/dns

dns-list

Modify Object

POST

/axapi/v3/ddos/zone-src-port-template/dns/{name}

dns attributes

Replace Object

PUT

/axapi/v3/ddos/zone-src-port-template/dns/{name}

dns attributes

Replace List

PUT

/axapi/v3/ddos/zone-src-port-template/dns

dns-list

Delete Object

DELETE

/axapi/v3/ddos/zone-src-port-template/dns/{name}

dns attributes

dns-list

dns-list is **JSON List** of *dns attributes*

dns-list : [

{ *dns attributes* },

{ *dns attributes* },

…

]

dns attributes

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

query-resolution-check

Description: query-resolution-check is a **JSON Block**. Please see below for *query-resolution-check*

Type: Object

Reference Object: */axapi/v3/ddos/zone-src-port-template/dns/{name}/query-resolution-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

query-resolution-check

Specification	Value
Type	*object*

big-response-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

big-response-size

Description Max DNS response size (in Bytes)

Type: number

Range: 1-4096

domain-lockup-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

session-timeout-value

Description max session timeout (secs) between DNS external server and Protected object

Type: number

Range: 1-30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.553 ddos zone-src-port-template dns query-resolution-check

Mitigation options against external DNS server (SYM mode only)

query-resolution-check Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	query-resolution-check
Element URI	/axapi/v3/ddos/zone-src-port-template/dns/{name}/query-resolution-check
Element Attributes	query-resolution-check_attributes
Partition Visibility	shared
Schema	`query-resolution-check schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-src-port-template/dns/{name}/query-resolution-check

query-resolution-check attributes

```
POST /axapi/v3/ddos/zone-src-port-template/dns/a/query-resolution-check
Payload:
{
    "query-resolution-check": {
        "session-timeout-value": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-src-port-template/dns/{name}/query-resolution-check

query-resolution-check attributes

```
GET /axapi/v3/ddos/zone-src-port-template/dns/a/query-resolution-check
Reponse:
{
    "query-resolution-check": {
        "session-timeout-value": 1,
        "domain-lockup-action": "default",
        "big-response-action": "default",
        "uuid": "1cd759fa-088b-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-src-port-template/dns/a/query-resolution-check"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-src-port-template/dns/{name}/query-resolution-check

query-resolution-check attributes

Replace Object

PUT

/axapi/v3/ddos/zone-src-port-template/dns/{name}/query-resolution-check

query-resolution-check attributes

```
PUT /axapi/v3/ddos/zone-src-port-template/dns/a/query-resolution-check
Payload:
{
    "query-resolution-check": {
        "session-timeout-value": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-src-port-template/dns/{name}/query-resolution-check

query-resolution-check attributes

```
DELETE /axapi/v3/ddos/zone-src-port-template/dns/a/query-resolution-check
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

query-resolution-check attributes

big-response-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

big-response-size

Description Max DNS response size (in Bytes)

Type: number

Range: 1-4096

domain-lockup-action

Description 'default': Default, No action for future connections; 'blacklist-src': Blacklist the external server for future connections;

Type: string

Supported Values: default, blacklist-src

Default: default

session-timeout-value

Description max session timeout (secs) between DNS external server and Protected object

Type: number

Range: 1-30

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.554 ddos zone-src-port-template tcp

TCP template Configuration

tcp Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*tcp-list*
Collection URI	/axapi/v3/ddos/zone-src-port-template/tcp
Element Name	tcp
Element URI	/axapi/v3/ddos/zone-src-port-template/tcp/{name}
Element Attributes	tcp_attributes
Partition Visibility	shared
Schema	`tcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-src-port-template/tcp

tcp attributes

```
POST /axapi/v3/ddos/zone-src-port-template/tcp/
Payload:
{
    "tcp": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-src-port-template/tcp

tcp attributes

Get Object

GET

/axapi/v3/ddos/zone-src-port-template/tcp/{name}

tcp attributes

```
GET /axapi/v3/ddos/zone-src-port-template/tcp/a
Reponse:
{
    "tcp": {
        "name": "a",
        "filter-match-type": "default",
        "uuid": "32b5570e-088b-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/zone-src-port-template/tcp/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/zone-src-port-template/tcp

tcp-list

Modify Object

POST

/axapi/v3/ddos/zone-src-port-template/tcp/{name}

tcp attributes

Replace Object

PUT

/axapi/v3/ddos/zone-src-port-template/tcp/{name}

tcp attributes

```
PUT /axapi/v3/ddos/zone-src-port-template/tcp/a
Payload:
{
    "tcp": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-src-port-template/tcp

tcp-list

Delete Object

DELETE

/axapi/v3/ddos/zone-src-port-template/tcp/{name}

tcp attributes

```
DELETE /axapi/v3/ddos/zone-src-port-template/tcp/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

tcp-list

tcp-list is **JSON List** of *tcp attributes*

tcp-list : [

{ *tcp attributes* },

{ *tcp attributes* },

...

]

tcp attributes

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-src-port-template/tcp/{name}/filter/{tcp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Mutual Exclusion: tcp-filter-action and tcp-filter-action-list-name are mutually exclusive

tcp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp-filter-action-list-name and tcp-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

tcp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.555 ddos zone-src-port-template tcp filter

TCP Filter Configuration

filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*tcp-filter-name*
Collection Name	*filter-list*
Collection URI	/axapi/v3/ddos/zone-src-port-template/tcp/{name}/filter
Element Name	filter
Element URI	/axapi/v3/ddos/zone-src-port-template/tcp/{name}/filter/{tcp-filter-name}
Element Attributes	filter_attributes
Partition Visibility	shared
Schema	`filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-src-port-template/tcp/{name}/filter

filter attributes

Create List

POST

/axapi/v3/ddos/zone-src-port-template/tcp/{name}/filter

filter attributes

Get Object

GET

/axapi/v3/ddos/zone-src-port-template/tcp/{name}/filter/{tcp-filter-name}

filter attributes

Get List

GET

/axapi/v3/ddos/zone-src-port-template/tcp/{name}/filter

filter-list

Modify Object

POST

/axapi/v3/ddos/zone-src-port-template/tcp/{name}/filter/{tcp-filter-name}

filter attributes

Replace Object

PUT

/axapi/v3/ddos/zone-src-port-template/tcp/{name}/filter/{tcp-filter-name}

filter attributes

Replace List

PUT

/axapi/v3/ddos/zone-src-port-template/tcp/{name}/filter

filter-list

Delete Object

DELETE

/axapi/v3/ddos/zone-src-port-template/tcp/{name}/filter/{tcp-filter-name}

filter attributes

filter-list

filter-list is **JSON List** of *filter attributes*

```
filter-list : [
        { filter attributes },
        { filter attributes },
        ...
    ]
```

filter attributes

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Mutual Exclusion: tcp-filter-action and tcp-filter-action-list-name are mutually exclusive

tcp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp-filter-action-list-name and tcp-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

tcp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.556 ddos zone-src-port-template udp

UDP template configuration

udp Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*udp-list*
Collection URI	/axapi/v3/ddos/zone-src-port-template/udp
Element Name	udp
Element URI	/axapi/v3/ddos/zone-src-port-template/udp/{name}
Element Attributes	udp_attributes
Partition Visibility	shared
Schema	`udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-src-port-template/udp

udp attributes

```
POST /axapi/v3/ddos/zone-src-port-template/udp/
Payload:
{
    "udp": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-src-port-template/udp

udp attributes

Get Object

GET

/axapi/v3/ddos/zone-src-port-template/udp/{name}

udp attributes

```
GET /axapi/v3/ddos/zone-src-port-template/udp/a
Reponse:
{
    "udp": {
        "name": "a",
        "filter-match-type": "default",
        "ntp-monlist-cfg": {
            "ntp-monlist": 0
        },
        "uuid": "67dd2290-088b-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/zone-src-port-template/udp/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/zone-src-port-template/udp

udp-list

Modify Object

POST

/axapi/v3/ddos/zone-src-port-template/udp/{name}

udp attributes

Replace Object

PUT

/axapi/v3/ddos/zone-src-port-template/udp/{name}

udp attributes

```
PUT /axapi/v3/ddos/zone-src-port-template/udp/a
Payload:
{
    "udp": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-src-port-template/udp

udp-list

Delete Object

DELETE

/axapi/v3/ddos/zone-src-port-template/udp/{name}

udp attributes

```
DELETE /axapi/v3/ddos/zone-src-port-template/udp/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

udp-list

udp-list is **JSON List** of *udp attributes*

udp-list : [

{ *udp attributes* },

{ *udp attributes* },

...

]

udp attributes

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-src-port-template/udp/{name}/filter/{udp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

max-payload-size-cfg

Description: max-payload-size-cfg is a **JSON Block**. Please see below for *max-payload-size-cfg*

Type: Object

min-payload-size-cfg

Description: min-payload-size-cfg is a **JSON Block**. Please see below for *min-payload-size-cfg*

Type: Object

name

Description DDOS UDP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ntp-monlist-cfg

Description: ntp-monlist-cfg is a **JSON Block**. Please see below for *ntp-monlist-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ntp-monlist-cfg

Specification	Value
Type	*object*

ntp-monlist

Description Take action for ntp monlist request/response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ntp-monlist-action

Description 'drop': Drop packets for ntp-monlist (Default); 'blacklist-src': Blacklist-src for ntp-monlist; 'ignore': Ignore ntp-monlist;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: ntp-monlist-action and ntp-monlist-action-list-name are mutually exclusive

ntp-monlist-action-list-name

Description Configure action-list to take for ntp-monlist

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ntp-monlist-action-list-name and ntp-monlist-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

max-payload-size-cfg

Specification	Value
Type	*object*

max-payload-size

Description Maximum UDP payload size for each single packet

Type: number

Range: 1-1470

max-payload-size-action

Description 'drop': Drop packets for max-payload-size exceed (Default); 'blacklist-src': Blacklist-src for max-payload-size exceed; 'ignore': Do nothing for max-payload-size exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: max-payload-size-action and max-payload-size-action-list-name are mutually exclusive

max-payload-size-action-list-name

Description Configure action-list to take for max-payload-size exceed

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

Mutual Exclusion: max-payload-size-action-list-name and max-payload-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

min-payload-size-cfg

Specification	Value
Type	*object*

min-payload-size

Description Minimum UDP payload size for each single packet

Type: number

Range: 1-1470

min-payload-size-action

Description 'drop': Drop packets for min-payload-size (Default); 'blacklist-src': Blacklist-src for min-payload-size; 'ignore': Do nothing for min-payload-size exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: min-payload-size-action and min-payload-size-action-list-name are mutually exclusive

min-payload-size-action-list-name

Description Configure action-list to take for min-payload-size exceed

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

Mutual Exclusion: min-payload-size-action-list-name and min-payload-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Mutual Exclusion: udp-filter-action and udp-filter-action-list-name are mutually exclusive

udp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp-filter-action-list-name and udp-filter-action are mutually exclusive

udp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.557 ddos zone-src-port-template udp filter

UDP Filter Configuration

filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*udp-filter-name*
Collection Name	*filter-list*
Collection URI	/axapi/v3/ddos/zone-src-port-template/udp/{name}/filter
Element Name	filter
Element URI	/axapi/v3/ddos/zone-src-port-template/udp/{name}/filter/{udp-filter-name}
Element Attributes	filter_attributes
Partition Visibility	shared
Schema	`filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-src-port-template/udp/{name}/filter

filter attributes

Create List

POST

/axapi/v3/ddos/zone-src-port-template/udp/{name}/filter

filter attributes

Get Object

GET

/axapi/v3/ddos/zone-src-port-template/udp/{name}/filter/{udp-filter-name}

filter attributes

Get List

GET

/axapi/v3/ddos/zone-src-port-template/udp/{name}/filter

filter-list

Modify Object

POST

/axapi/v3/ddos/zone-src-port-template/udp/{name}/filter/{udp-filter-name}

filter attributes

Replace Object

PUT

/axapi/v3/ddos/zone-src-port-template/udp/{name}/filter/{udp-filter-name}

filter attributes

Replace List

PUT

/axapi/v3/ddos/zone-src-port-template/udp/{name}/filter

filter-list

Delete Object

DELETE

/axapi/v3/ddos/zone-src-port-template/udp/{name}/filter/{udp-filter-name}

filter attributes

filter-list

filter-list is **JSON List** of *filter attributes*

filter-list : [

{ *filter attributes* },

{ *filter attributes* },

...

]

filter attributes

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Mutual Exclusion: udp-filter-action and udp-filter-action-list-name are mutually exclusive

udp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp-filter-action-list-name and udp-filter-action are mutually exclusive

udp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.558 ddos zone-template

Define a DDOS zone-template

zone-template Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	zone-template
Element URI	/axapi/v3/ddos/zone-template
Element Attributes	zone-template_attributes
Partition Visibility	shared
Schema	`zone-template schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/zone-template

zone-template_attributes

zone-template attributes

dns-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/dns/{name}*

encap-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/encap/{encap-tmpl-name}*

http-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/http/{http-tmpl-name}*

icmp-v4-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}*

icmp-v6-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}*

ip-proto-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/ip-proto/{name}*

logging-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/logging/{logging-tmpl-name}*

quic-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}*

sip-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}*

ssl-l4-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}*

tcp-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}*

udp-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/udp/{name}*

logging-list

Specification	Value
Type	*list*
Block object keys	

enable-action-logging

Description Log action taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-format-cef

Description Log in CEF format

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-format-custom

Description Customize log format

Type: string

Format: string-rlx

Maximum Length: 512 characters

Maximum Length: 1 characters

logging-tmpl-name

Description DDOS Logging Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: default

use-obj-name

Description Show obj name instead of ip in the log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list

Specification	Value
Type	*list*
Block object keys	

ack-authentication

Description: ack-authentication is a **JSON Block**. Please see below for *tcp-list_ack-authentication*

Type: Object

ack-authentication-synack-reset

Description Reset client TCP SYN+ACK for authentication (DST support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-on-ack-rto-retry-count

Description Take action if ack-auth RTO-authentication fail over retry time(default:5)

Type: number

Range: 2-10

action-on-syn-rto-retry-count

Description Take action if syn-auth RTO-authentication fail over retry time(default:5)

Type: number

Range: 2-10

age

Description Session age in minutes

Type: number

Range: 1-63

Default: 2

Mutual Exclusion: age and age-second are mutually exclusive

age-out-reset-server

Description Send TCP reset to server if aging time has passed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

age-second

Description Session age in seconds

Type: number

Range: 1-3600

Default: 120

Mutual Exclusion: age-second and age are mutually exclusive

allow-syn-otherflags

Description Treat TCP SYN+PSH as a TCP SYN (DST tcp ports support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-synack-skip-authentications

Description Allow create sessions on SYNACK without syn-auth and ack-auth (ASYM Mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-tcp-tfo

Description Allow TCP Fast Open

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

concurrent

Description Enable concurrent port access for non-matching ports (DST support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

conn-rate-limit-on-syn-only

Description Only count SYN-initiated connections towards connection-rate tracking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

create-conn-on-syn-only

Description Enable connection establishment on SYN only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst

Description: dst is a **JSON Block**. Please see below for *tcp-list_dst*

Type: Object

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/filter/{tcp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

known-resp-src-port-cfg

Description: known-resp-src-port-cfg is a **JSON Block**. Please see below for *tcp-list_known-resp-src-port-cfg*

Type: Object

max-rexmit-syn-per-flow-cfg

Description: max-rexmit-syn-per-flow-cfg is a **JSON Block**. Please see below for *tcp-list_max-rexmit-syn-per-flow-cfg*

Type: Object

name

Description DDOS TCP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

out-of-seq-cfg

Description: out-of-seq-cfg is a **JSON Block**. Please see below for *tcp-list_out-of-seq-cfg*

Type: Object

per-conn-out-of-seq-rate-cfg

Description: per-conn-out-of-seq-rate-cfg is a **JSON Block**. Please see below for *tcp-list_per-conn-out-of-seq-rate-cfg*

Type: Object

per-conn-pkt-rate-cfg

Description: per-conn-pkt-rate-cfg is a **JSON Block**. Please see below for *tcp-list_per-conn-pkt-rate-cfg*

Type: Object

per-conn-rate-interval

Description '100ms': 100ms; '1sec': 1sec; '10sec': 10sec;

Type: string

Supported Values: 100ms, 1sec, 10sec

Default: 1sec

per-conn-retransmit-rate-cfg

Description: per-conn-retransmit-rate-cfg is a **JSON Block**. Please see below for *tcp-list_per-conn-retransmit-rate-cfg*

Type: Object

per-conn-zero-win-rate-cfg

Description: per-conn-zero-win-rate-cfg is a **JSON Block**. Please see below for *tcp-list_per-conn-zero-win-rate-cfg*

Type: Object

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *tcp-list_progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking*

retransmit-cfg

Description: retransmit-cfg is a **JSON Block**. Please see below for *tcp-list_retransmit-cfg*

Type: Object

small-win-cfg

Description: small-win-cfg is a **JSON Block**. Please see below for *tcp-list_small-win-cfg*

Type: Object

src

Description: src is a **JSON Block**. Please see below for *tcp-list_src*

Type: Object

syn-authentication

Description: syn-authentication is a **JSON Block**. Please see below for *tcp-list_syn-authentication*

Type: Object

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

synack-rate-limit

Description Config SYNACK rate limit

Type: number

Range: 1-16000000

Mutual Exclusion: synack-rate-limit and track-together-with-syn are mutually exclusive

tcp-half-open-timeout

Description TCP half-open session age in seconds

Type: number

Range: 1-3600

Default: 120

tcp-half-open-timeout-reset-server

Description Send TCP reset to server if TCP half-open session timeout

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

track-together-with-syn

Description SYNACK will be counted in Dst Syn-rate limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: track-together-with-syn and synack-rate-limit are mutually exclusive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zero-win-cfg

Description: zero-win-cfg is a **JSON Block**. Please see below for *tcp-list_zero-win-cfg*

Type: Object

tcp-list_syn-authentication

Specification	Value
Type	*object*

syn-auth-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Send reset to client (Applicable to retransmit-check only);

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: syn-auth-fail-action and syn-auth-fail-action-list-name are mutually exclusive

syn-auth-fail-action-list-name

Description Configure action-list to take for failing the authentication.

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: syn-auth-fail-action-list-name and syn-auth-fail-action are mutually exclusive

syn-auth-min-delay

Description Minimum delay (in 100ms intervals) between SYN retransmits for retransmit-check to pass

Type: number

Range: 1-80

Mutual Exclusion: syn-auth-min-delay and syn-auth-type are mutually exclusive

syn-auth-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: syn-auth-pass-action and syn-auth-pass-action-list-name are mutually exclusive

syn-auth-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: syn-auth-pass-action-list-name and syn-auth-pass-action are mutually exclusive

syn-auth-rto

Description Estimate the RTO and apply the exponential back-off for authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth-timeout

Description syn retransmit timeout in seconds(default timeout: 5 seconds)

Type: number

Range: 1-31

Mutual Exclusion: syn-auth-timeout and syn-auth-type are mutually exclusive

syn-auth-type

Description 'send-rst': Send reset to client after syn cookie check pass; 'force-rst-by-ack': Send client a bad ack after syn cookie check pass; 'force-rst-by-synack': Send client a bad synack after syn cookie check pass;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, send-rst-once, hybrid

Mutual Exclusion: syn-auth-type, syn-auth-timeout, and syn-auth-min-delay are mutually exclusive

tcp-list_ack-authentication

Specification	Value
Type	*object*

ack-auth-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Send reset to client;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: ack-auth-fail-action and ack-auth-fail-action-list-name are mutually exclusive

ack-auth-fail-action-list-name

Description Configure action-list to take for failing the authentication.

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ack-auth-fail-action-list-name and ack-auth-fail-action are mutually exclusive

ack-auth-min-delay

Description Minimum delay (in 100ms intervals) between ACK retransmits for retransmit-check to pass

Type: number

Range: 1-80

ack-auth-only

Description Apply retransmit-check only once per source address for authentication purpose

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ack-auth-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: ack-auth-pass-action and ack-auth-pass-action-list-name are mutually exclusive

ack-auth-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ack-auth-pass-action-list-name and ack-auth-pass-action are mutually exclusive

ack-auth-rto

Description Estimate the RTO and apply the exponential back-off for authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ack-auth-timeout

Description ack retransmit timeout in seconds(default timeout: 5 seconds)

Type: number

Range: 1-31

tcp-list_retransmit-cfg

Specification	Value
Type	*object*

retransmit

Description Take action if retransmit pkts exceed configured threshold

Type: number

Range: 1-64000

Mutual Exclusion: retransmit and per-conn-retransmit-rate-limit are mutually exclusive

retransmit-action

Description 'drop': Drop packets for retrans exceed (Default); 'blacklist-src': help Blacklist-src for retrans exceed; 'ignore': help Ignore retrans exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: retransmit-action and retransmit-action-list-name are mutually exclusive

retransmit-action-list-name

Description Configure action-list to take for retransmit exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: retransmit-action-list-name and retransmit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

tcp-list_dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *tcp-list_dst_rate-limit*

Type: Object

tcp-list_dst_rate-limit

Specification	Value
Type	*object*

syn-rate-limit

Description: syn-rate-limit is a **JSON Block**. Please see below for *tcp-list_dst_rate-limit_syn-rate-limit*

Type: Object

tcp-list_dst_rate-limit_syn-rate-limit

Specification	Value
Type	*object*

dst-syn-rate-action

Description 'drop': Drop packets for syn-rate exceed (Default); 'ignore': Ignore syn-rate-exceed;

Type: string

Supported Values: drop, ignore

Default: drop

dst-syn-rate-limit

Description

Type: number

Range: 1-16000000

tcp-list_per-conn-retransmit-rate-cfg

Specification	Value
Type	*object*

per-conn-retransmit-rate-action

Description 'drop': Drop packets for retrans rate exceed (Default); 'blacklist-src': help Blacklist-src for retrans rate exceed; 'ignore': help Ignore retrans rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-retransmit-rate-action and per-conn-retransmit-rate-action-list-name are mutually exclusive

per-conn-retransmit-rate-action-list-name

Description Configure action-list to take for retransmit rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-retransmit-rate-action-list-name and per-conn-retransmit-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-retransmit-rate-limit

Description Take action if retransmit pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-retransmit-rate-limit and retransmit are mutually exclusive

tcp-list_per-conn-zero-win-rate-cfg

Specification	Value
Type	*object*

per-conn-zero-win-rate-action

Description 'drop': Drop packets for zero-win rate exceed (Default); 'blacklist-src': help Blacklist-src for zero-win rate exceed; 'ignore': Ignore zero-win rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-zero-win-rate-action and per-conn-zero-win-rate-action-list-name are mutually exclusive

per-conn-zero-win-rate-action-list-name

Description Configure action-list to take for zero window rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-zero-win-rate-action-list-name and per-conn-zero-win-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-zero-win-rate-limit

Description Take action if zero window pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-zero-win-rate-limit and zero-win are mutually exclusive

tcp-list_per-conn-pkt-rate-cfg

Specification	Value
Type	*object*

per-conn-pkt-rate-action

Description 'drop': Drop packets for per-conn-pkt-rate exceed (Default); 'blacklist-src': help Blacklist-src for per-conn-pkt-rate exceed; 'ignore': Ignore per-conn-pkt-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-pkt-rate-action and per-conn-pkt-rate-action-list-name are mutually exclusive

per-conn-pkt-rate-action-list-name

Description Configure action-list to take for per-conn-pkt-rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-pkt-rate-action-list-name and per-conn-pkt-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-pkt-rate-limit

Description Packet rate limit per connection per rate-interval

Type: number

Range: 1-16000000

tcp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Default: drop

Mutual Exclusion: tcp-filter-action and tcp-filter-action-list-name are mutually exclusive

tcp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp-filter-action-list-name and tcp-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

tcp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_max-rexmit-syn-per-flow-cfg

Specification	Value
Type	*object*

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow

Type: number

Range: 1-6

max-rexmit-syn-per-flow-action

Description 'drop': Drop SYN packets for max-rexmit-syn-per-flow exceed (Default); 'blacklist-src': help Blacklist-src for max-rexmit-syn-per-flow exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

max-rexmit-syn-per-flow-action-list-name

Description Configure action-list to take for max-rexmit-syn-per-flow exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

tcp-list_src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *tcp-list_src_rate-limit*

Type: Object

tcp-list_src_rate-limit

Specification	Value
Type	*object*

syn-rate-limit

Description: syn-rate-limit is a **JSON Block**. Please see below for *tcp-list_src_rate-limit_syn-rate-limit*

Type: Object

tcp-list_src_rate-limit_syn-rate-limit

Specification	Value
Type	*object*

src-syn-rate-action

Description 'drop': Drop packets for syn-rate exceed (Default); 'blacklist-src': Blacklist-src for syn-rate exceed; 'ignore': Ignore syn-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: src-syn-rate-action and src-syn-rate-action-list-name are mutually exclusive

src-syn-rate-action-list-name

Description Configure action-list to take for syn-rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-syn-rate-action-list-name and src-syn-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src-syn-rate-limit

Description

Type: number

Range: 1-16000000

tcp-list_progression-tracking

Specification	Value
Type	*object*

ignore-TLS-handshake

Description Ignore TLS handshake, support SSL-L4 port only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

mitigation

Description: mitigation is a **JSON Block**. Please see below for *tcp-list_progression-tracking_mitigation*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation*

profiling

Description: profiling is a **JSON Block**. Please see below for *tcp-list_progression-tracking_profiling*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/profiling*

progression-tracking-enabled

Description 'enable-check': Enable Progression Tracking Check;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_progression-tracking_mitigation

Specification	Value
Type	*object*

connection-tracking

Description: connection-tracking is a **JSON Block**. Please see below for *tcp-list_progression-tracking_mitigation_connection-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/connection-tracking*

request-tracking

Description: request-tracking is a **JSON Block**. Please see below for *tcp-list_progression-tracking_mitigation_request-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/request-tracking*

slow-attack

Description: slow-attack is a **JSON Block**. Please see below for *tcp-list_progression-tracking_mitigation_slow-attack*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack*

time-window-tracking

Description: time-window-tracking is a **JSON Block**. Please see below for *tcp-list_progression-tracking_mitigation_time-window-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/time-window-tracking*

tcp-list_progression-tracking_mitigation_time-window-tracking

Specification	Value
Type	*object*

progression-tracking-win-enabled

Description 'enable-check': Enable Progression Tracking per Time Window;

Type: string

Supported Values: enable-check

Default: enable-check

progression-tracking-windows-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-windows-action and progression-tracking-windows-action-list-name are mutually exclusive

progression-tracking-windows-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-windows-action-list-name and progression-tracking-windows-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

window-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

window-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

window-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

window-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

window-violation

Description Set the violation threshold

Type: number

Range: 1-255

tcp-list_progression-tracking_mitigation_slow-attack

Specification	Value
Type	*object*

init-request-max-time

Description Set client query time (in unit of 100ms). Suggested value larger than 30 secs

Type: number

Range: 2-6000

init-response-max-time

Description Set server think time (in unit of 100ms). Suggested value larger than 45 secs

Type: number

Range: 2-6000

progression-tracking-slow-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-slow-action and progression-tracking-slow-action-list-name are mutually exclusive

progression-tracking-slow-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-slow-action-list-name and progression-tracking-slow-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

response-pkt-rate-max

Description Set the transferred packets per response

Type: number

Range: 1-255

slow-attack

Description 'enable-check': Enter Progression Tracking Tracking Slow Attack;

Type: string

Supported Values: enable-check

Default: enable-check

slow-attacker-identification

Description: slow-attacker-identification is a **JSON Block**. Please see below for *tcp-list_progression-tracking_mitigation_slow-attack_slow-attacker-identification*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack/slow-attacker-identification*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_progression-tracking_mitigation_slow-attack_slow-attacker-identification

Specification	Value
Type	*object*

active-connection

Description Set the minimum tracking active connection to start identifying slow attacker, default value is 3

Type: number

Range: 1-65535

Default: 3

bad-connection

Description Set the maximum percentage of slow connection (per source), default value is 75

Type: number

Range: 1-100

Default: 75

enable-identification

Description Progression tracking will identify slow attacker and blacklist it based on the config value

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_progression-tracking_mitigation_connection-tracking

Specification	Value
Type	*object*

conn-duration-max

Description Set the maximum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-2147483647

conn-duration-min

Description Set the minimum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-2147483647

conn-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-2147483647

conn-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of milli-, 0.001)

Type: number

Range: 1-2147483647

conn-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of milli-, 0.001)

Type: number

Range: 1-65535

conn-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-2147483647

conn-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

conn-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking-conn-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-conn-action and progression-tracking-conn-action-list-name are mutually exclusive

progression-tracking-conn-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-conn-action-list-name and progression-tracking-conn-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-conn-enabled

Description 'enable-check': Enable General Progression Tracking per Connection;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_progression-tracking_mitigation_request-tracking

Specification	Value
Type	*object*

first-request-max-time

Description Set the maximum idle time before the first request (in unit of 100ms)

Type: number

Range: 1-65535

progression-tracking-req-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-req-action and progression-tracking-req-action-list-name are mutually exclusive

progression-tracking-req-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-req-action-list-name and progression-tracking-req-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-req-enabled

Description 'enable-check': Enable General Progression Tracking per Request Response;

Type: string

Supported Values: enable-check

Default: enable-check

request-length-max

Description Set the maximum request length

Type: number

Range: 1-65535

request-length-min

Description Set the minimum request length

Type: number

Range: 1-65535

request-response-model

Description 'enable': Enable Request Response Model (Default); 'disable': Disable Request Response Model;

Type: string

Supported Values: enable, disable

Default: enable

request-to-response-max-time

Description Set the maximum request to response time (in unit of 100ms)

Type: number

Range: 1-65535

response-length-max

Description Set the maximum response length

Type: number

Range: 1-4294967295

response-length-min

Description Set the minimum response length

Type: number

Range: 1-65535

response-to-request-max-time

Description Set the maximum response to request time (in unit of 100ms)

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation

Description Set the violation threshold

Type: number

Range: 1-255

tcp-list_progression-tracking_profiling

Specification	Value
Type	*object*

profiling-connection-life-model

Description Enable auto-config progression tracking learning for connection model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-request-response-model

Description Enable auto-config progression tracking learning for request response model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-time-window-model

Description Enable auto-config progression tracking learning for time window model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-list_known-resp-src-port-cfg

Specification	Value
Type	*object*

exclude-src-resp-port

Description Exclude src port equal to dst port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

known-resp-src-port

Description Take action if src-port is less than 1024

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

known-resp-src-port-action

Description 'drop': Drop packets from well-known src-port(Default); 'blacklist-src': Blacklist-src from well-known src-port; 'ignore': Ignore well-known src-port;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: known-resp-src-port-action and known-resp-src-port-action-list-name are mutually exclusive

known-resp-src-port-action-list-name

Description Configure action-list to take for well-known src-port

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: known-resp-src-port-action-list-name and known-resp-src-port-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

tcp-list_zero-win-cfg

Specification	Value
Type	*object*

zero-win

Description Take action if zero window pkts exceed configured threshold

Type: number

Range: 1-250

Mutual Exclusion: zero-win and per-conn-zero-win-rate-limit are mutually exclusive

zero-win-action

Description 'drop': Drop packets for zero-win exceed (Default); 'blacklist-src': help Blacklist-src for zero-win exceed; 'ignore': Ignore zero-win exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: zero-win-action and zero-win-action-list-name are mutually exclusive

zero-win-action-list-name

Description Configure action-list to take for zero window exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: zero-win-action-list-name and zero-win-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

tcp-list_per-conn-out-of-seq-rate-cfg

Specification	Value
Type	*object*

per-conn-out-of-seq-rate-action

Description 'drop': Drop packets for out-of-seq rate exceed (Default); 'blacklist-src': help Blacklist-src for out-of-seq rate exceed; 'ignore': help Ignore out-of-seq rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-out-of-seq-rate-action and per-conn-out-of-seq-rate-action-list-name are mutually exclusive

per-conn-out-of-seq-rate-action-list-name

Description Configure action-list to take for out-of-seq rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-out-of-seq-rate-action-list-name and per-conn-out-of-seq-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-out-of-seq-rate-limit

Description Take action if out-of-seq pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-out-of-seq-rate-limit and out-of-seq are mutually exclusive

tcp-list_out-of-seq-cfg

Specification	Value
Type	*object*

out-of-seq

Description Take action if out-of-seq pkts exceed configured threshold

Type: number

Range: 1-64000

Mutual Exclusion: out-of-seq and per-conn-out-of-seq-rate-limit are mutually exclusive

out-of-seq-action

Description 'drop': Drop packets for out-of-seq exceed (Default); 'blacklist-src': help Blacklist-src for out-of-seq exceed; 'ignore': help Ignore out-of-seq exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: out-of-seq-action and out-of-seq-action-list-name are mutually exclusive

out-of-seq-action-list-name

Description Configure action-list to take for out-of-seq exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: out-of-seq-action-list-name and out-of-seq-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

tcp-list_small-win-cfg

Specification	Value
Type	*object*

small-window

Description Smallest allowed window size

Type: number

Range: 1-65535

small-window-action

Description 'drop': Drop packets for small-window exceed (Default); 'blacklist-src': help Blacklist-src for small-window exceed; 'ignore': Ignore small-window exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: small-window-action and small-window-action-list-name are mutually exclusive

small-window-action-list-name

Description Configure action-list to take for small window exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: small-window-action-list-name and small-window-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

small-window-threshold

Description Take action if small window pkts exceed configured threshold

Type: number

Range: 1-250

quic-list

Specification	Value
Type	*list*
Block object keys	

action-on-initial

Description: action-on-initial is a **JSON Block**. Please see below for *quic-list_action-on-initial*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/action-on-initial*

create-conn-on-initial-only

Description Create connection on QUIC Initial Packets Only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fixed-bit-check-disable

Description Disable fixed-bit malform check

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pkt-rate-cfg

Description: pkt-rate-cfg is a **JSON Block**. Please see below for *quic-list_pkt-rate-cfg*

Type: Object

quic-tmpl-name

Description DDOS QUIC Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

version-supported-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}*

quic-list_version-supported-list

Specification	Value
Type	*list*
Block object keys	

malformed-check

Description: malformed-check is a **JSON Block**. Please see below for *quic-list_version-supported-list_malformed-check*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}/malformed-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

version-action

Description 'drop': Drop packets; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: version-action and version-action-list-name are mutually exclusive

version-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: version-action-list-name and version-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

version-end

Description Version supported range end

Type: string

Format: time

Maximum Length: 4294967295 characters

Maximum Length: 1 characters

version-start

Description Configure versions supported

Type: string

Format: time

Maximum Length: 4294967295 characters

Maximum Length: 1 characters

quic-list_version-supported-list_malformed-check

Specification	Value
Type	*object*

malformed-check-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: malformed-check-action and malformed-check-action-list-name are mutually exclusive

malformed-check-action-list-name

Description Configure action-list to take. Overwrites version action

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: malformed-check-action-list-name and malformed-check-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

malformed-enable

Description 'enable': Enable malformed check;

Type: string

Supported Values: enable

Default: enable

max-destination-cid-length

Description Set the maximum destination CID length

Type: number

Range: 0-255

Default: 255

max-source-cid-length

Description Set the maximum source CID length

Type: number

Range: 0-255

Default: 255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

quic-list_pkt-rate-cfg

Specification	Value
Type	*object*

per

Description 'aead-tag': AEAD Tag; 'dcid': Destination Connection ID;

Type: string

Supported Values: aead-tag, dcid

quic-pkt-rate

Description Limiting rate (Range: 5-16000000)

Type: number

Range: 5-16000000

quic-pkt-rate-limit

Description QUIC Packet Rate Limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

quic-list_action-on-initial

Specification	Value
Type	*object*

retry-token-authentication-dynamic

Description 'cid-hash': Dynamic retry token based on Destination and Source CID;

Type: string

Supported Values: cid-hash

Mutual Exclusion: retry-token-authentication-dynamic and retry-token-authentication-static are mutually exclusive

retry-token-authentication-static

Description Static retry token (Maximum of 4 bytes)

Type: string

Format: time

Maximum Length: 4294967295 characters

Maximum Length: 1 characters

Mutual Exclusion: retry-token-authentication-static and retry-token-authentication-dynamic are mutually exclusive

retry-unauthenticated-initial-decrypt

Description Decrypt incoming initial packets for unauthenticated clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

scid-length

Description Set Max SCID length for SCID generation

Type: number

Range: 8-20

Default: 20

unauth-short-hdr-action

Description 'drop': Drop short header packet;

Type: string

Supported Values: drop

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssl-l4-list

Specification	Value
Type	*list*
Block object keys	

allow-non-tls

Description Allow Non-TLS (SSLv3 and lower) traffic (Warning: security may be compromised)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-handshake

Description: auth-handshake is a **JSON Block**. Please see below for *ssl-l4-list_auth-handshake*

Type: Object

disable

Description Disable this template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst

Description: dst is a **JSON Block**. Please see below for *ssl-l4-list_dst*

Type: Object

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *ssl-l4-list_multi-pu-threshold-distribution*

Type: Object

renegotiation

Description: renegotiation is a **JSON Block**. Please see below for *ssl-l4-list_renegotiation*

Type: Object

src

Description: src is a **JSON Block**. Please see below for *ssl-l4-list_src*

Type: Object

ssl-handshake-policy

Description: ssl-handshake-policy is a **JSON Block**. Please see below for *ssl-l4-list_ssl-handshake-policy*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy*

ssl-l4-tmpl-name

Description DDOS SSL-L4 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-traffic-check

Description: ssl-traffic-check is a **JSON Block**. Please see below for *ssl-l4-list_ssl-traffic-check*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssl-l4-list_auth-handshake

Specification	Value
Type	*object*

auth-handshake-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: auth-handshake-fail-action and auth-handshake-fail-action-list-name are mutually exclusive

auth-handshake-fail-action-list-name

Description Configure action-list to take for failing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: auth-handshake-fail-action-list-name and auth-handshake-fail-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

auth-handshake-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: auth-handshake-pass-action and auth-handshake-pass-action-list-name are mutually exclusive

auth-handshake-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: auth-handshake-pass-action-list-name and auth-handshake-pass-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

auth-handshake-timeout

Description Connection timeout (default 5 seconds) and trials (default 5 times) (DST support only)

Type: number

Range: 1-31

Default: 5

auth-handshake-trials

Description Number of failed handshakes before entry marked black

Type: number

Range: 0-15

Default: 5

cert-cfg

Description: cert-cfg is a **JSON Block**. Please see below for *ssl-l4-list_auth-handshake_cert-cfg*

Type: Object

server-name-list

Type: List

ssl-l4-list_auth-handshake_cert-cfg

Specification	Value
Type	*object*

cert

Description SSL certificate

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

key

Description SSL key

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

key-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED password string)

key-passphrase

Description Password Phrase

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4-list_auth-handshake_server-name-list

Specification	Value
Type	*list*
Block object keys	

server-cert

Description Server Certificate associated to SNI (Server Certificate Name)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED password string)

server-key

Description Server Private Key associated to SNI (Server Private Key Name)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-name

Description Server name indication in Client hello extension (Server name String)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-passphrase

Description Password Phrase

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

ssl-l4-list_src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *ssl-l4-list_src_rate-limit*

Type: Object

ssl-l4-list_src_rate-limit

Specification	Value
Type	*object*

request

Description: request is a **JSON Block**. Please see below for *ssl-l4-list_src_rate-limit_request*

Type: Object

ssl-l4-list_src_rate-limit_request

Specification	Value
Type	*object*

src-request-rate-limit

Description

Type: number

Range: 1-16000000

src-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, reset

Mutual Exclusion: src-request-rate-limit-action and src-request-rate-limit-action-list-name are mutually exclusive

src-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-request-rate-limit-action-list-name and src-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

ssl-l4-list_dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *ssl-l4-list_dst_rate-limit*

Type: Object

ssl-l4-list_dst_rate-limit

Specification	Value
Type	*object*

request

Description: request is a **JSON Block**. Please see below for *ssl-l4-list_dst_rate-limit_request*

Type: Object

ssl-l4-list_dst_rate-limit_request

Specification	Value
Type	*object*

dst-request-rate-limit

Description

Type: number

Range: 1-16000000

dst-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, reset

Mutual Exclusion: dst-request-rate-limit-action and dst-request-rate-limit-action-list-name are mutually exclusive

dst-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-request-rate-limit-action-list-name and dst-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

ssl-l4-list_ssl-traffic-check

Specification	Value
Type	*object*

check-resumed-connection

Description Apply checks to SSL connections initialized by ACK packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

header-action

Description 'drop': Drop packets with bad ssl header; 'ignore': Forward packets with bad ssl header;

Type: string

Supported Values: drop, ignore

header-inspection

Description Inspect ssl header

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssl-l4-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

ssl-l4-list_renegotiation

Specification	Value
Type	*object*

num-renegotiation

Description Number of renegotiation allowed

Type: number

Range: 0-7

ssl-l4-reneg-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: ssl-l4-reneg-action and ssl-l4-reneg-action-list-name are mutually exclusive

ssl-l4-reneg-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4-reneg-action-list-name and ssl-l4-reneg-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

ssl-l4-list_ssl-handshake-policy

Specification	Value
Type	*object*

action

Description 'drop': Drop packets (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist source IP;

Type: string

Supported Values: drop, reset, blacklist-src

Mutual Exclusion: action and ssl-handshake-policy-action-list-name are mutually exclusive

cipher-suites-limit

Description Set cipher suites limit

Type: number

Range: 1-600

client-extensions-limit

Description Set client extensions limit

Type: number

Range: 1-600

clienthello-to-appdata-timeout

Description Set maximum timeout seconds from ClientHello to App-Data

Type: number

Range: 1-600

finished-to-appdata-timeout

Description Set maximum timeout seconds from Handshake finished to App-Data

Type: number

Range: 1-600

src-handshaking-conn-limit

Description Set handshaking connection limit

Type: number

Range: 1-16000000

ssl-handshake-policy-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-handshake-policy-action-list-name and action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/ip-proto/{name}/filter/{other-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

name

Description DDOS Ip-proto Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip-proto-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Mutual Exclusion: other-filter-action and other-filter-action-list-name are mutually exclusive

other-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: other-filter-action-list-name and other-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

other-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

other-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

other-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-list

Specification	Value
Type	*list*
Block object keys	

allow-query-class

Description: allow-query-class is a **JSON Block**. Please see below for *dns-list_allow-query-class*

Type: Object

allow-record-type

Description: allow-record-type is a **JSON Block**. Please see below for *dns-list_allow-record-type*

Type: Object

dns-any-check

Description Drop DNS queries of Type ANY

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-any-check-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Default: drop

Mutual Exclusion: dns-any-check-action and dns-any-check-action-list-name are mutually exclusive

dns-any-check-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-any-check-action-list-name and dns-any-check-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dns-udp-authentication

Description: dns-udp-authentication is a **JSON Block**. Please see below for *dns-list_dns-udp-authentication*

Type: Object

domain-group-name

Description Apply a domain-group to the DNS template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst

Description: dst is a **JSON Block**. Please see below for *dns-list_dst*

Type: Object

fqdn-label-count-cfg

Description: fqdn-label-count-cfg is a **JSON Block**. Please see below for *dns-list_fqdn-label-count-cfg*

Type: Object

fqdn-label-len-cfg

Type: List

malformed-query-check

Description: malformed-query-check is a **JSON Block**. Please see below for *dns-list_malformed-query-check*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/dns/{name}/malformed-query-check*

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *dns-list_multi-pu-threshold-distribution*

Type: Object

name

Description DDOS DNS Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

on-no-match

Description 'permit': permit; 'deny': deny (default);

Type: string

Supported Values: permit, deny

Default: deny

src

Description: src is a **JSON Block**. Please see below for *dns-list_src*

Type: Object

symtimeout-cfg

Description: symtimeout-cfg is a **JSON Block**. Please see below for *dns-list_symtimeout-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-list_src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *dns-list_src_rate-limit*

Type: Object

dns-list_src_rate-limit

Specification	Value
Type	*object*

nxdomain

Description: nxdomain is a **JSON Block**. Please see below for *dns-list_src_rate-limit_nxdomain*

Type: Object

request

Description: request is a **JSON Block**. Please see below for *dns-list_src_rate-limit_request*

Type: Object

dns-list_src_rate-limit_request

Specification	Value
Type	*object*

src-dns-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: src-dns-request-rate-limit-action and src-dns-request-rate-limit-action-list-name are mutually exclusive

src-dns-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-dns-request-rate-limit-action-list-name and src-dns-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type

Description: type is a **JSON Block**. Please see below for *dns-list_src_rate-limit_request_type*

Type: Object

dns-list_src_rate-limit_request_type

Specification	Value
Type	*object*

A-cfg

Description: A-cfg is a **JSON Block**. Please see below for *dns-list_src_rate-limit_request_type_A-cfg*

Type: Object

AAAA-cfg

Description: AAAA-cfg is a **JSON Block**. Please see below for *dns-list_src_rate-limit_request_type_AAAA-cfg*

Type: Object

CNAME-cfg

Description: CNAME-cfg is a **JSON Block**. Please see below for *dns-list_src_rate-limit_request_type_CNAME-cfg*

Type: Object

MX-cfg

Description: MX-cfg is a **JSON Block**. Please see below for *dns-list_src_rate-limit_request_type_MX-cfg*

Type: Object

NS-cfg

Description: NS-cfg is a **JSON Block**. Please see below for *dns-list_src_rate-limit_request_type_NS-cfg*

Type: Object

SRV-cfg

Description: SRV-cfg is a **JSON Block**. Please see below for *dns-list_src_rate-limit_request_type_SRV-cfg*

Type: Object

dns-type-cfg

Type: List

dns-list_src_rate-limit_request_type_SRV-cfg

Specification	Value
Type	*object*

SRV

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-srv-rate

Description DNS request rate

Type: number

Range: 1-16000000

dns-list_src_rate-limit_request_type_CNAME-cfg

Specification	Value
Type	*object*

CNAME

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-cname-rate

Description

Type: number

Range: 1-16000000

dns-list_src_rate-limit_request_type_dns-type-cfg

Specification	Value
Type	*list*
Block object keys	

src-dns-request-type

Description Other type value

Type: number

Range: 1-65535

src-dns-request-type-rate

Description request rate limit

Type: number

Range: 1-16000000

dns-list_src_rate-limit_request_type_AAAA-cfg

Specification	Value
Type	*object*

AAAA

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-aaaa-rate

Description

Type: number

Range: 1-16000000

dns-list_src_rate-limit_request_type_A-cfg

Specification	Value
Type	*object*

A

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-a-rate

Description

Type: number

Range: 1-16000000

dns-list_src_rate-limit_request_type_MX-cfg

Specification	Value
Type	*object*

MX

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-mx-rate

Description

Type: number

Range: 1-16000000

dns-list_src_rate-limit_request_type_NS-cfg

Specification	Value
Type	*object*

NS

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-ns-rate

Description

Type: number

Range: 1-16000000

dns-list_src_rate-limit_nxdomain

Specification	Value
Type	*object*

dns-nxdomain-rate

Description Limiting rate

Type: number

Range: 1-16000000

dns-nxdomain-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: dns-nxdomain-rate-limit-action and dns-nxdomain-rate-limit-action-list-name are mutually exclusive

dns-nxdomain-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-nxdomain-rate-limit-action-list-name and dns-nxdomain-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dns-list_fqdn-label-count-cfg

Specification	Value
Type	*object*

fqdn-label-count-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Send reset to client;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: fqdn-label-count-action and fqdn-label-count-action-list-name are mutually exclusive

fqdn-label-count-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fqdn-label-count-action-list-name and fqdn-label-count-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

label-count

Description Maximum number of FQDN labels per FQDN

Type: number

Range: 1-10

dns-list_malformed-query-check

Specification	Value
Type	*object*

dns-malformed-query-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: dns-malformed-query-action and dns-malformed-query-action-list-name are mutually exclusive

dns-malformed-query-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-malformed-query-action-list-name and dns-malformed-query-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

non-query-opcode-check

Description 'disable': When malform check is enabled, TPS always drops DNS query with non query opcode, this option disables this opcode check;

Type: string

Supported Values: disable

skip-multi-packet-check

Description Bypass DNS fragmented and TCP segmented Queries(Default: dropped)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

validation-type

Description 'basic-header-check': Basic header validation for DNS TCP/UDP queries; 'extended-header-check': Extended header/query validation for DNS TCP/UDP queries; 'disable': Disable Malform query validation for DNS TCP/UDP;

Type: string

Supported Values: basic-header-check, extended-header-check, disable

dns-list_dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *dns-list_dst_rate-limit*

Type: Object

dns-list_dst_rate-limit

Specification	Value
Type	*object*

domain-group-rate-exceed-action

Description 'drop': Drop the query (default); 'tunnel-encap-packet': Encapsulate the query and send on a tunnel;

Type: string

Supported Values: drop, tunnel-encap-packet

Default: drop

domain-group-rate-per-service

Description Enable per service domain rate checking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encap-template

Description DDOS encap template to sepcify the tunnel endpoint

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/zone-template/encap*

fqdn

Description: fqdn is a **JSON Block**. Please see below for *dns-list_dst_rate-limit_fqdn*

Type: Object

request

Description: request is a **JSON Block**. Please see below for *dns-list_dst_rate-limit_request*

Type: Object

dns-list_dst_rate-limit_request

Specification	Value
Type	*object*

dst-dns-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Mutual Exclusion: dst-dns-request-rate-limit-action and dst-dns-request-rate-limit-action-list-name are mutually exclusive

dst-dns-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-dns-request-rate-limit-action-list-name and dst-dns-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type

Description: type is a **JSON Block**. Please see below for *dns-list_dst_rate-limit_request_type*

Type: Object

dns-list_dst_rate-limit_request_type

Specification	Value
Type	*object*

A-cfg

Description: A-cfg is a **JSON Block**. Please see below for *dns-list_dst_rate-limit_request_type_A-cfg*

Type: Object

AAAA-cfg

Description: AAAA-cfg is a **JSON Block**. Please see below for *dns-list_dst_rate-limit_request_type_AAAA-cfg*

Type: Object

CNAME-cfg

Description: CNAME-cfg is a **JSON Block**. Please see below for *dns-list_dst_rate-limit_request_type_CNAME-cfg*

Type: Object

MX-cfg

Description: MX-cfg is a **JSON Block**. Please see below for *dns-list_dst_rate-limit_request_type_MX-cfg*

Type: Object

NS-cfg

Description: NS-cfg is a **JSON Block**. Please see below for *dns-list_dst_rate-limit_request_type_NS-cfg*

Type: Object

SRV-cfg

Description: SRV-cfg is a **JSON Block**. Please see below for *dns-list_dst_rate-limit_request_type_SRV-cfg*

Type: Object

dns-type-cfg

Type: List

dns-list_dst_rate-limit_request_type_SRV-cfg

Specification	Value
Type	*object*

SRV

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-srv-rate

Description DNS request rate

Type: number

Range: 1-16000000

dns-list_dst_rate-limit_request_type_CNAME-cfg

Specification	Value
Type	*object*

CNAME

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-cname-rate

Description

Type: number

Range: 1-16000000

dns-list_dst_rate-limit_request_type_dns-type-cfg

Specification	Value
Type	*list*
Block object keys	

dns-request-type

Description Other type value

Type: number

Range: 1-65535

dns-request-type-rate

Description request rate limit

Type: number

Range: 1-16000000

dns-list_dst_rate-limit_request_type_AAAA-cfg

Specification	Value
Type	*object*

AAAA

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-aaaa-rate

Description

Type: number

Range: 1-16000000

dns-list_dst_rate-limit_request_type_A-cfg

Specification	Value
Type	*object*

A

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-a-rate

Description

Type: number

Range: 1-16000000

dns-list_dst_rate-limit_request_type_MX-cfg

Specification	Value
Type	*object*

MX

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-mx-rate

Description

Type: number

Range: 1-16000000

dns-list_dst_rate-limit_request_type_NS-cfg

Specification	Value
Type	*object*

NS

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-ns-rate

Description

Type: number

Range: 1-16000000

dns-list_dst_rate-limit_fqdn

Specification	Value
Type	*object*

dns-fqdn-rate-cfg

Type: List

dns-fqdn-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Mutual Exclusion: dns-fqdn-rate-limit-action and dns-fqdn-rate-limit-action-list-name are mutually exclusive

dns-fqdn-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-fqdn-rate-limit-action-list-name and dns-fqdn-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dns-list_dst_rate-limit_fqdn_dns-fqdn-rate-cfg

Specification	Value
Type	*list*
Block object keys	

dns-fqdn-rate

Description Limiting rate (Range: 5-8000 for FQDN domain based rate limiting, 5-16000000 for FQDN label count based rate limiting)

Type: number

Range: 5-16000000

fqdn-rate-label-count

Description FQDN label count (Range: 1-8)

Type: number

Range: 1-8

fqdn-rate-suffix

Description Suffix count

Type: number

Range: 1-5

per

Description 'domain-name': Domain Name; 'src-ip': Source IP address; 'label-count': FQDN label count;

Type: string

Supported Values: domain-name, src-ip, label-count

per-domain-per-src-ip

Description Use both Domain Name and Source IP address for rate-limiting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-list_allow-record-type

Specification	Value
Type	*object*

allow-a-type

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-aaaa-type

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-cname-type

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-mx-type

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-ns-type

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-record-type-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: allow-record-type-action and allow-record-type-action-list-name are mutually exclusive

allow-record-type-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: allow-record-type-action-list-name and allow-record-type-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

allow-srv-type

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

record-num-cfg

Type: List

dns-list_allow-record-type_record-num-cfg

Specification	Value
Type	*list*
Block object keys	

allow-num-type

Description Other record type value

Type: number

Range: 1-65535

dns-list_allow-query-class

Specification	Value
Type	*object*

allow-any-query-class

Description ANY query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-chaos-query-class

Description CHAOS query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-csnet-query-class

Description CSNET query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-hesiod-query-class

Description HESIOD query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-internet-query-class

Description INTERNET query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-none-query-class

Description NONE query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-query-class-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: allow-query-class-action and allow-query-class-action-list-name are mutually exclusive

allow-query-class-action-list-name

Description Configure action-list to take when query class doesn't match

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: allow-query-class-action-list-name and allow-query-class-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dns-list_dns-udp-authentication

Specification	Value
Type	*object*

dns-udp-auth-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: dns-udp-auth-fail-action and dns-udp-auth-fail-action-list-name are mutually exclusive

dns-udp-auth-fail-action-list-name

Description Configure action-list to take for failing the authentication. (Applicable to dns-udp retry only)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-udp-auth-fail-action-list-name and dns-udp-auth-fail-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dns-udp-auth-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: dns-udp-auth-pass-action and dns-udp-auth-pass-action-list-name are mutually exclusive

dns-udp-auth-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-udp-auth-pass-action-list-name and dns-udp-auth-pass-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

force-tcp-cfg

Description: force-tcp-cfg is a **JSON Block**. Please see below for *dns-list_dns-udp-authentication_force-tcp-cfg*

Type: Object

min-delay

Description Optional minimum delay between DNS retransmits for authentication to pass, unit is specified by min-delay-interval

Type: number

Range: 1-80

Mutual Exclusion: min-delay and force-tcp are mutually exclusive

min-delay-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

udp-timeout

Description UDP authentication timeout in seconds

Type: number

Range: 1-16

Mutual Exclusion: udp-timeout and force-tcp are mutually exclusive

dns-list_dns-udp-authentication_force-tcp-cfg

Specification	Value
Type	*object*

force-tcp

Description Force DNS request over TCP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: force-tcp, udp-timeout, and min-delay are mutually exclusive

force-tcp-ignore-client-source-port

Description Allow client to retransmit DNS request using different source port during udp-auth (supported in asymmetric mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force-tcp-min-delay

Description Optional minimum delay (seconds) between DNS retransmits for authentication to pass

Type: number

Range: 1-15

force-tcp-timeout

Description UDP authentication timeout in seconds

Type: number

Range: 1-16

dns-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

dns-list_fqdn-label-len-cfg

Specification	Value
Type	*list*
Block object keys	

fqdn-label-length-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: fqdn-label-length-action and fqdn-label-length-action-list-name are mutually exclusive

fqdn-label-length-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fqdn-label-length-action-list-name and fqdn-label-length-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

fqdn-label-suffix

Description Number of suffixes

Type: number

Range: 1-5

label-length

Description Maximum length of FQDN label

Type: number

Range: 1-63

dns-list_symtimeout-cfg

Specification	Value
Type	*object*

sym-timeout

Description Timeout for DNS Symmetric session

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sym-timeout-value

Description Session timeout value in seconds

Type: number

Range: 1-31

icmp-v4-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/filter/{icmp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

icmp-tmpl-name

Description DDOS ICMPv4 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type/{type-number}*

type-other

Description: type-other is a **JSON Block**. Please see below for *icmp-v4-list_type-other*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type-other*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-v4-list_type-list

Specification	Value
Type	*list*
Block object keys	

dst-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

dst-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-other-rate-action and dst-code-other-rate-action-list-name are mutually exclusive

dst-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-other-rate-action-list-name and dst-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-type-action

Description 'drop': Reject this ICMP type; 'blacklist-src': Blacklist-src this ICMP type; 'ignore': Ignore this ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-action and icmp-type-action-list-name are mutually exclusive

icmp-type-action-list-name

Description Configure action-list to take for this ICMP type

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-action-list-name and icmp-type-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

src-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-other-rate-action and src-code-other-rate-action-list-name are mutually exclusive

src-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-other-rate-action-list-name and src-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-dst-code-cfg

Type: List

v4-dst-rate-cfg

Description: v4-dst-rate-cfg is a **JSON Block**. Please see below for *icmp-v4-list_type-list_v4-dst-rate-cfg*

Type: Object

v4-src-code-cfg

Type: List

v4-src-rate-cfg

Description: v4-src-rate-cfg is a **JSON Block**. Please see below for *icmp-v4-list_type-list_v4-src-rate-cfg*

Type: Object

icmp-v4-list_type-list_v4-src-rate-cfg

Specification	Value
Type	*object*

src-type-rate

Description Specify the whole src rate for this type

Type: number

Range: 1-16000000

src-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-rate-action and src-type-rate-action-list-name are mutually exclusive

src-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-rate-action-list-name and src-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-v4-list_type-list_v4-dst-code-cfg

Specification	Value
Type	*list*
Block object keys	

dst-code-number

Description Specify the ICMP code for this dst rate

Type: number

Range: 0-255

dst-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

dst-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-rate-action and dst-code-rate-action-list-name are mutually exclusive

dst-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-rate-action-list-name and dst-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-v4-list_type-list_v4-src-code-cfg

Specification	Value
Type	*list*
Block object keys	

src-code-number

Description Specify the ICMP code for this src rate

Type: number

Range: 0-255

src-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

src-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-rate-action and src-code-rate-action-list-name are mutually exclusive

src-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-rate-action-list-name and src-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-v4-list_type-list_v4-dst-rate-cfg

Specification	Value
Type	*object*

dst-type-rate

Description Specify the whole dst rate for this type

Type: number

Range: 1-16000000

dst-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-rate-action and dst-type-rate-action-list-name are mutually exclusive

dst-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-rate-action-list-name and dst-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-v4-list_type-other

Specification	Value
Type	*object*

dst

Description: dst is a **JSON Block**. Please see below for *icmp-v4-list_type-other_dst*

Type: Object

icmp-type-other-action

Description 'drop': Reject wildcard ICMP type; 'blacklist-src': Blacklist-src wildcard ICMP type; 'ignore': Ignore wildcard ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-other-action and icmp-type-other-action-list-name are mutually exclusive

icmp-type-other-action-list-name

Description Configure action-list to take for wildcard ICMP match

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-other-action-list-name and icmp-type-other-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src

Description: src is a **JSON Block**. Please see below for *icmp-v4-list_type-other_src*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-v4-list_type-other_src

Specification	Value
Type	*object*

src-type-other-rate

Description Specify the whole src rate for wildcard ICMP type

Type: number

Range: 1-16000000

src-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-other-rate-action and src-type-other-rate-action-list-name are mutually exclusive

src-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-other-rate-action-list-name and src-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-v4-list_type-other_dst

Specification	Value
Type	*object*

dst-type-other-rate

Description Specify the whole dst rate for wildcard ICMP type

Type: number

Range: 1-16000000

dst-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-other-rate-action and dst-type-other-rate-action-list-name are mutually exclusive

dst-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-other-rate-action-list-name and dst-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-v4-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description filter using Berkeley packet filter syntax

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

icmp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, blacklist-src

Default: drop

Mutual Exclusion: icmp-filter-action and icmp-filter-action-list-name are mutually exclusive

icmp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-filter-action-list-name and icmp-filter-action are mutually exclusive

icmp-filter-inverse-match

Description Inverse the result of matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

icmp-filter-seq

Description sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

encap-list

Specification	Value
Type	*list*
Block object keys	

encap-tmpl-name

Description DDOS Tunnel Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

preserve-source-ip

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap

Description: tunnel-encap is a **JSON Block**. Please see below for *encap-list_tunnel-encap*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

encap-list_tunnel-encap

Specification	Value
Type	*object*

gre-cfg

Description: gre-cfg is a **JSON Block**. Please see below for *encap-list_tunnel-encap_gre-cfg*

Type: Object

ip-cfg

Description: ip-cfg is a **JSON Block**. Please see below for *encap-list_tunnel-encap_ip-cfg*

Type: Object

encap-list_tunnel-encap_ip-cfg

Specification	Value
Type	*object*

always

Description: always is a **JSON Block**. Please see below for *encap-list_tunnel-encap_ip-cfg_always*

Type: Object

ip-encap

Description Enable Tunnel encapsulation using IP in IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encap-list_tunnel-encap_ip-cfg_always

Specification	Value
Type	*object*

ipv4-addr

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

ipv6-addr

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

encap-list_tunnel-encap_gre-cfg

Specification	Value
Type	*object*

gre-always

Description: gre-always is a **JSON Block**. Please see below for *encap-list_tunnel-encap_gre-cfg_gre-always*

Type: Object

gre-encap

Description Enable Tunnel encapsulation using GRE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encap-list_tunnel-encap_gre-cfg_gre-always

Specification	Value
Type	*object*

gre-ipv4

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

gre-ipv6

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

key-ipv4

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

key-ipv6

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

udp-list

Specification	Value
Type	*list*
Block object keys	

age

Description Configure session age(in minutes) for UDP sessions

Type: number

Range: 1-63

Default: 2

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/udp/{name}/filter/{udp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

known-resp-src-port-cfg

Description: known-resp-src-port-cfg is a **JSON Block**. Please see below for *udp-list_known-resp-src-port-cfg*

Type: Object

max-payload-size-cfg

Description: max-payload-size-cfg is a **JSON Block**. Please see below for *udp-list_max-payload-size-cfg*

Type: Object

min-payload-size-cfg

Description: min-payload-size-cfg is a **JSON Block**. Please see below for *udp-list_min-payload-size-cfg*

Type: Object

name

Description DDOS UDP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ntp-monlist-cfg

Description: ntp-monlist-cfg is a **JSON Block**. Please see below for *udp-list_ntp-monlist-cfg*

Type: Object

per-conn-pkt-rate-cfg

Description: per-conn-pkt-rate-cfg is a **JSON Block**. Please see below for *udp-list_per-conn-pkt-rate-cfg*

Type: Object

per-conn-rate-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

previous-salt-timeout

Description Token-Authentication previous salt-prefix timeout in minutes, default is 1 min

Type: number

Range: 1-10080

Default: 1

public-ipv4-addr

Description IP address

Type: string

Format: ipv4-address

public-ipv6-addr

Description IPV6 address

Type: string

Format: ipv6-address

spoof-detect-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src for spoof-detect fail;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: spoof-detect-fail-action and spoof-detect-fail-action-list-name are mutually exclusive

spoof-detect-fail-action-list-name

Description Configure action-list to take for failing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: spoof-detect-fail-action-list-name and spoof-detect-fail-action are mutually exclusive

spoof-detect-min-delay

Description Optional minimum delay between UDP retransmits for authentication to pass, unit is specified by min-delay-interval

Type: number

Range: 1-80

spoof-detect-min-delay-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

spoof-detect-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: spoof-detect-pass-action and spoof-detect-pass-action-list-name are mutually exclusive

spoof-detect-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: spoof-detect-pass-action-list-name and spoof-detect-pass-action are mutually exclusive

spoof-detect-retry-timeout

Description Timeout in seconds

Type: number

Range: 1-31

token-authentication

Description Enable Token Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-formula

Description 'md5_Salt-SrcIp-SrcPort-DstIp-DstPort': md5 of Salt-SrcIp-SrcPort-DstIp-DstPort; 'md5_Salt-DstIp-DstPort': md5 of Salt-DstIp-DstPort; 'md5_Salt-SrcIp-DstIp': md5 of Salt-SrcIp-DstIp; 'md5_Salt-SrcPort-DstPort': md5 of Salt-SrcPort-DstPort; 'md5_Salt-UintDstIp-DstPort': Using the uint value of IP for md5 of Salt-DstIp-DstPort; 'sha1_Salt-SrcIp-SrcPort-DstIp-DstPort': sha1 of Salt-SrcIp-SrcPort-DstIp-DstPort; 'sha1_Salt-DstIp-DstPort': sha1 of Salt-DstIp-DstPort; 'sha1_Salt-SrcIp-DstIp': sha1 of Salt-SrcIp-DstIp; 'sha1_Salt-SrcPort-DstPort': sha1 of Salt-SrcPort-DstPort; 'sha1_Salt-UintDstIp-DstPort': Using the uint value of IP for sha1 of Salt-DstIp-DstPort;

Type: string

Supported Values: md5_Salt-SrcIp-SrcPort-DstIp-DstPort, md5_Salt-DstIp-DstPort, md5_Salt-SrcIp-DstIp, md5_Salt-SrcPort-DstPort, md5_Salt-UintDstIp-DstPort, sha1_Salt-SrcIp-SrcPort-DstIp-DstPort, sha1_Salt-DstIp-DstPort, sha1_Salt-SrcIp-DstIp, sha1_Salt-SrcPort-DstPort, sha1_Salt-UintDstIp-DstPort

token-authentication-hw-assist-disable

Description token-authentication disable hardware assistance

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-public-address

Description The server public IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-salt-prefix

Description token-authentication salt-prefix

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-salt-prefix-curr

Description

Type: number

Range: 1-4294967295

token-authentication-salt-prefix-prev

Description

Type: number

Range: 1-4294967295

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

udp-list_ntp-monlist-cfg

Specification	Value
Type	*object*

ntp-monlist

Description Take action for ntp monlist request/response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ntp-monlist-action

Description 'drop': Drop packets for ntp-monlist (Default); 'blacklist-src': Blacklist-src for ntp-monlist; 'ignore': Ignore ntp-monlist;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: ntp-monlist-action and ntp-monlist-action-list-name are mutually exclusive

ntp-monlist-action-list-name

Description Configure action-list to take for ntp-monlist

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ntp-monlist-action-list-name and ntp-monlist-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

udp-list_known-resp-src-port-cfg

Specification	Value
Type	*object*

exclude-src-resp-port

Description Exclude src port equal to dst port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

known-resp-src-port

Description Take action if src-port is less than 1024

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

known-resp-src-port-action

Description 'drop': Drop packets from well-known src-port(Default); 'blacklist-src': Blacklist-src from well-known src-port; 'ignore': Ignore well-known src-port;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: known-resp-src-port-action and known-resp-src-port-action-list-name are mutually exclusive

known-resp-src-port-action-list-name

Description Configure action-list to take for well-known src-port

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: known-resp-src-port-action-list-name and known-resp-src-port-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

udp-list_per-conn-pkt-rate-cfg

Specification	Value
Type	*object*

per-conn-pkt-rate-action

Description 'drop': Drop packets for per-conn-pkt-rate exceed (Default); 'blacklist-src': help Blacklist-src for per-conn-pkt-rate exceed; 'ignore': Ignore per-conn-pkt-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-pkt-rate-action and per-conn-pkt-rate-action-list-name are mutually exclusive

per-conn-pkt-rate-action-list-name

Description Configure action-list to take for per-conn-pkt-rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-pkt-rate-action-list-name and per-conn-pkt-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-pkt-rate-limit

Description Packet rate limit per connection per rate-interval

Type: number

Range: 1-16000000

udp-list_min-payload-size-cfg

Specification	Value
Type	*object*

min-payload-size

Description Minimum UDP payload size for each single packet

Type: number

Range: 1-1470

min-payload-size-action

Description 'drop': Drop packets for min-payload-size (Default); 'blacklist-src': Blacklist-src for min-payload-size; 'ignore': Do nothing for min-payload-size exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: min-payload-size-action and min-payload-size-action-list-name are mutually exclusive

min-payload-size-action-list-name

Description Configure action-list to take for min-payload-size exceed

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

Mutual Exclusion: min-payload-size-action-list-name and min-payload-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

udp-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Default: drop

Mutual Exclusion: udp-filter-action and udp-filter-action-list-name are mutually exclusive

udp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp-filter-action-list-name and udp-filter-action are mutually exclusive

udp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

udp-list_max-payload-size-cfg

Specification	Value
Type	*object*

max-payload-size

Description Maximum UDP payload size for each single packet

Type: number

Range: 1-1470

max-payload-size-action

Description 'drop': Drop packets for max-payload-size exceed (Default); 'blacklist-src': Blacklist-src for max-payload-size exceed; 'ignore': Do nothing for max-payload-size exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: max-payload-size-action and max-payload-size-action-list-name are mutually exclusive

max-payload-size-action-list-name

Description Configure action-list to take for max-payload-size exceed

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

Mutual Exclusion: max-payload-size-action-list-name and max-payload-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

http-list

Specification	Value
Type	*list*
Block object keys	

challenge

Description: challenge is a **JSON Block**. Please see below for *http-list_challenge*

Type: Object

client-source-ip

Description: client-source-ip is a **JSON Block**. Please see below for *http-list_client-source-ip*

Type: Object

disable

Description Disable this template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disallow-connect-method

Description Do not allow HTTP Connect method (asymmetric mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst

Description: dst is a **JSON Block**. Please see below for *http-list_dst*

Type: Object

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/http/{http-tmpl-name}/filter/{http-filter-name}*

http-tmpl-name

Description DDOS HTTP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

idle-timeout

Description: idle-timeout is a **JSON Block**. Please see below for *http-list_idle-timeout*

Type: Object

malformed-http

Description: malformed-http is a **JSON Block**. Please see below for *http-list_malformed-http*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/http/{http-tmpl-name}/malformed-http*

mss-timeout

Description: mss-timeout is a **JSON Block**. Please see below for *http-list_mss-timeout*

Type: Object

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *http-list_multi-pu-threshold-distribution*

Type: Object

non-http-bypass

Description Bypass non-http traffic instead of dropping

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

out-of-order-queue-size

Description Set the number of packets for the out-of-order HTTP queue (asym mode only)

Type: number

Range: 0-15

Default: 3

out-of-order-queue-timeout

Description Set the timeout value in seconds for out-of-order queue in HTTP (asym mode only)

Type: number

Range: 0-15

Default: 3

request-header

Description: request-header is a **JSON Block**. Please see below for *http-list_request-header*

Type: Object

slow-read

Description: slow-read is a **JSON Block**. Please see below for *http-list_slow-read*

Type: Object

src

Description: src is a **JSON Block**. Please see below for *http-list_src*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

http-list_client-source-ip

Specification	Value
Type	*object*

client-source-ip

Description Mitigate on src ip specified by http header for example X-Forwarded-For header. Default is disabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-header-name

Description Set the http header name to parse for client ip. Default is X-Forwarded-For

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: X-Forwarded-For

http-list_dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *http-list_dst_rate-limit*

Type: Object

http-list_dst_rate-limit

Specification	Value
Type	*object*

http-post

Description: http-post is a **JSON Block**. Please see below for *http-list_dst_rate-limit_http-post*

Type: Object

http-request

Description: http-request is a **JSON Block**. Please see below for *http-list_dst_rate-limit_http-request*

Type: Object

response-size

Description: response-size is a **JSON Block**. Please see below for *http-list_dst_rate-limit_response-size*

Type: Object

http-list_dst_rate-limit_response-size

Specification	Value
Type	*object*

between-cfg

Type: List

greater-cfg

Type: List

less-cfg

Type: List

response-size-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: response-size-action and response-size-action-list-name are mutually exclusive

response-size-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: response-size-action-list-name and response-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

http-list_dst_rate-limit_response-size_between-cfg

Specification	Value
Type	*list*
Block object keys	

obj-between-rate

Description Response rate limit

Type: number

Range: 1-16000000

obj-between1

Description Response size configuration

Type: number

Range: 1-16000000

obj-between2

Description Response size configuration

Type: number

Range: 1-16000000

http-list_dst_rate-limit_response-size_greater-cfg

Specification	Value
Type	*list*
Block object keys	

obj-greater

Description Response size configuration

Type: number

Range: 1-16000000

obj-greater-rate

Description Response rate limit

Type: number

Range: 1-16000000

http-list_dst_rate-limit_response-size_less-cfg

Specification	Value
Type	*list*
Block object keys	

obj-less

Description Response size configuration

Type: number

Range: 1-16000000

obj-less-rate

Description Response rate limit

Type: number

Range: 1-16000000

http-list_dst_rate-limit_http-post

Specification	Value
Type	*object*

dst-post-rate-limit

Description

Type: number

Range: 1-16000000

dst-post-rate-limit-action

Description 'drop': Drop packets(Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: dst-post-rate-limit-action and dst-post-rate-limit-action-list-name are mutually exclusive

dst-post-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-post-rate-limit-action-list-name and dst-post-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

http-list_dst_rate-limit_http-request

Specification	Value
Type	*object*

dst-request-rate

Description

Type: number

Range: 1-16000000

dst-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: dst-request-rate-limit-action and dst-request-rate-limit-action-list-name are mutually exclusive

dst-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-request-rate-limit-action-list-name and dst-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

http-list_src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *http-list_src_rate-limit*

Type: Object

http-list_src_rate-limit

Specification	Value
Type	*object*

http-post

Description: http-post is a **JSON Block**. Please see below for *http-list_src_rate-limit_http-post*

Type: Object

http-request

Description: http-request is a **JSON Block**. Please see below for *http-list_src_rate-limit_http-request*

Type: Object

http-list_src_rate-limit_http-post

Specification	Value
Type	*object*

src-post-rate-limit

Description

Type: number

Range: 1-16000000

src-post-rate-limit-action

Description 'drop': Drop packets(Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: src-post-rate-limit-action and src-post-rate-limit-action-list-name are mutually exclusive

src-post-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-post-rate-limit-action-list-name and src-post-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

http-list_src_rate-limit_http-request

Specification	Value
Type	*object*

src-request-rate

Description

Type: number

Range: 1-16000000

src-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: src-request-rate-limit-action and src-request-rate-limit-action-list-name are mutually exclusive

src-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-request-rate-limit-action-list-name and src-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

http-list_challenge

Specification	Value
Type	*object*

challenge-cookie-name

Description Set the cookie name used to send back to client. Default is sto-idd

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: sto-idd

challenge-fail-action

Description 'blacklist-src': Blacklist-src; 'reset': Reset client connection(Default);

Type: string

Supported Values: blacklist-src, reset

Default: reset

Mutual Exclusion: challenge-fail-action and challenge-fail-action-list-name are mutually exclusive

challenge-fail-action-list-name

Description Configure action-list to take for failing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-fail-action-list-name and challenge-fail-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

challenge-interval

Description Specify the challenge interval. Default is 8 seconds

Type: number

Range: 1-31

Default: 8

challenge-keep-cookie

Description Keep the challenge cookie from client and forward to backend. Default is do not keep

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

challenge-method

Description 'http-redirect': http-redirect; 'javascript': javascript;

Type: string

Supported Values: http-redirect, javascript

challenge-pass-action

Description 'authenticate-src': Authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: challenge-pass-action and challenge-pass-action-list-name are mutually exclusive

challenge-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-pass-action-list-name and challenge-pass-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

challenge-redirect-code

Description '302': 302 Found; '307': 307 Temporary Redirect;

Type: string

Supported Values: 302, 307

Default: 302

challenge-uri-encode

Description Encode the challenge phrase in uri instead of in http cookie. Default encoded in http cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-list_idle-timeout

Specification	Value
Type	*object*

idle-timeout-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: idle-timeout-action and idle-timeout-action-list-name are mutually exclusive

idle-timeout-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: idle-timeout-action-list-name and idle-timeout-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

idle-timeout-value

Description Set the the idle timeout value in seconds for HTTP connections

Type: number

Range: 1-63

ignore-zero-payload

Description Don't reset idle timer on packets with zero payload length from clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-list_slow-read

Specification	Value
Type	*object*

min-window-count

Description Number of packets

Type: number

Range: 1-31

min-window-size

Description minimum window size

Type: number

Range: 1-65535

slow-read-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'ignore': Take no action; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, ignore, reset

Mutual Exclusion: slow-read-action and slow-read-action-list-name are mutually exclusive

slow-read-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: slow-read-action-list-name and slow-read-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

http-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

http-list_filter-list

Specification	Value
Type	*list*
Block object keys	

dst

Description: dst is a **JSON Block**. Please see below for *http-list_filter-list_dst*

Type: Object

http-agent-cfg

Description: http-agent-cfg is a **JSON Block**. Please see below for *http-list_filter-list_http-agent-cfg*

Type: Object

http-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src, reset

Mutual Exclusion: http-filter-action and http-filter-action-list-name are mutually exclusive

http-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http-filter-action-list-name and http-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

http-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-filter-seq

Description Sequence number

Type: number

Range: 1-200

http-header-cfg

Description: http-header-cfg is a **JSON Block**. Please see below for *http-list_filter-list_http-header-cfg*

Type: Object

http-referer-cfg

Description: http-referer-cfg is a **JSON Block**. Please see below for *http-list_filter-list_http-referer-cfg*

Type: Object

http-uri-cfg

Description: http-uri-cfg is a **JSON Block**. Please see below for *http-list_filter-list_http-uri-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

http-list_filter-list_http-uri-cfg

Specification	Value
Type	*object*

uri-contains-cfg

Type: List

uri-ends-cfg

Type: List

uri-equal-cfg

Type: List

uri-starts-cfg

Type: List

http-list_filter-list_http-uri-cfg_uri-equal-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-equals

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

http-list_filter-list_http-uri-cfg_uri-starts-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

http-list_filter-list_http-uri-cfg_uri-ends-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

http-list_filter-list_http-uri-cfg_uri-contains-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-contains

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

http-list_filter-list_dst

Specification	Value
Type	*object*

http-filter-rate-limit

Description Set rate limit

Type: number

Range: 1-16000000

http-list_filter-list_http-agent-cfg

Specification	Value
Type	*object*

agent-contains-cfg

Type: List

agent-ends-cfg

Type: List

agent-equals-cfg

Type: List

agent-starts-cfg

Type: List

http-list_filter-list_http-agent-cfg_agent-contains-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_filter-list_http-agent-cfg_agent-ends-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_filter-list_http-agent-cfg_agent-equals-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_filter-list_http-agent-cfg_agent-starts-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_filter-list_http-header-cfg

Specification	Value
Type	*object*

http-filter-header-inverse-match

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

http-list_filter-list_http-referer-cfg

Specification	Value
Type	*object*

referer-contains-cfg

Type: List

referer-ends-cfg

Type: List

referer-equals-cfg

Type: List

referer-starts-cfg

Type: List

http-list_filter-list_http-referer-cfg_referer-equals-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_filter-list_http-referer-cfg_referer-starts-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_filter-list_http-referer-cfg_referer-contains-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_filter-list_http-referer-cfg_referer-ends-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-list_mss-timeout

Specification	Value
Type	*object*

mss-percent

Description Configure percentage of mss such that if a packet size is below the mss times mss-percent, packet is considered bad.

Type: number

Range: 1-100

mss-timeout-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: mss-timeout-action and mss-timeout-action-list-name are mutually exclusive

mss-timeout-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: mss-timeout-action-list-name and mss-timeout-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

number-packets

Description Specify percentage of mss. Default is 0, mss-timeout is not enabled.

Type: number

Range: 1-31

http-list_malformed-http

Specification	Value
Type	*object*

malformed-http

Description 'check': Configure malformed HTTP parameters;

Type: string

Supported Values: check

Default: check

malformed-http-action

Description 'drop': Drop packets (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, reset, blacklist-src

Mutual Exclusion: malformed-http-action and malformed-http-action-list-name are mutually exclusive

malformed-http-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: malformed-http-action-list-name and malformed-http-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

malformed-http-bad-chunk-mon-enabled

Description Enabling bad chunk monitoring. Default is disabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-http-max-content-length

Description Set the maxinum content-length header. Default value is 4294967295 bytes

Type: number

Range: 1-4294967295

Default: 4294967295

malformed-http-max-header-name-size

Description Set the maxinum header name length. Default value is 64.

Type: number

Range: 1-64

Default: 64

malformed-http-max-line-size

Description Set the maximum line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

malformed-http-max-num-headers

Description Set the maximum number of headers. Default value is 90

Type: number

Range: 1-90

Default: 90

malformed-http-max-req-line-size

Description Set the maximum request line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

http-list_request-header

Specification	Value
Type	*object*

header-timeout-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Default: drop

Mutual Exclusion: header-timeout-action and header-timeout-action-list-name are mutually exclusive

header-timeout-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: header-timeout-action-list-name and header-timeout-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

timeout

Description

Type: number

Range: 1-63

sip-list

Specification	Value
Type	*list*
Block object keys	

dst

Description: dst is a **JSON Block**. Please see below for *sip-list_dst*

Type: Object

filter-header-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/filter-header/{sip-filter-name}*

idle-timeout

Description: idle-timeout is a **JSON Block**. Please see below for *sip-list_idle-timeout*

Type: Object

malformed-sip

Description: malformed-sip is a **JSON Block**. Please see below for *sip-list_malformed-sip*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/malformed-sip*

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *sip-list_multi-pu-threshold-distribution*

Type: Object

sip-tmpl-name

Description DDOS SIP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src

Description: src is a **JSON Block**. Please see below for *sip-list_src*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sip-list_src

Specification	Value
Type	*object*

sip-request-rate-limit

Description: sip-request-rate-limit is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit*

Type: Object

sip-list_src_sip-request-rate-limit

Specification	Value
Type	*object*

method

Description: method is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method*

Type: Object

src-sip-rate-action

Description 'drop': Drop packets(Default); 'ignore': Take no action; 'reset': Reset (sip-tcp) client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: src-sip-rate-action and src-sip-rate-action-list-name are mutually exclusive

src-sip-rate-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-sip-rate-action-list-name and src-sip-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

sip-list_src_sip-request-rate-limit_method

Specification	Value
Type	*object*

bye-cfg

Description: bye-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_bye-cfg*

Type: Object

invite-cfg

Description: invite-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_invite-cfg*

Type: Object

message-cfg

Description: message-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_message-cfg*

Type: Object

notify-cfg

Description: notify-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_notify-cfg*

Type: Object

options-cfg

Description: options-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_options-cfg*

Type: Object

refer-cfg

Description: refer-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_refer-cfg*

Type: Object

register-cfg

Description: register-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_register-cfg*

Type: Object

subscribe-cfg

Description: subscribe-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_subscribe-cfg*

Type: Object

update-cfg

Description: update-cfg is a **JSON Block**. Please see below for *sip-list_src_sip-request-rate-limit_method_update-cfg*

Type: Object

sip-list_src_sip-request-rate-limit_method_options-cfg

Specification	Value
Type	*object*

OPTIONS

Description OPTIONS method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-options-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_refer-cfg

Specification	Value
Type	*object*

REFER

Description REFER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-refer-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_bye-cfg

Specification	Value
Type	*object*

BYE

Description BYE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-bye-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_subscribe-cfg

Specification	Value
Type	*object*

SUBSCRIBE

Description SUBSCRIBE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-subscribe-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_register-cfg

Specification	Value
Type	*object*

REGISTER

Description REGISTER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-register-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_invite-cfg

Specification	Value
Type	*object*

INVITE

Description INVITE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-invite-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_message-cfg

Specification	Value
Type	*object*

MESSAGE

Description MESSAGE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-message-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_update-cfg

Specification	Value
Type	*object*

UPDATE

Description UPDATE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-update-rate

Description

Type: number

Range: 1-16000000

sip-list_src_sip-request-rate-limit_method_notify-cfg

Specification	Value
Type	*object*

NOTIFY

Description NOTIFY method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-notify-rate

Description

Type: number

Range: 1-16000000

sip-list_dst

Specification	Value
Type	*object*

sip-request-rate-limit

Description: sip-request-rate-limit is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit*

Type: Object

sip-list_dst_sip-request-rate-limit

Specification	Value
Type	*object*

dst-sip-rate-action

Description 'drop': Drop packets(Default); 'ignore': Take no action; 'reset': Reset (sip-tcp) client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: dst-sip-rate-action and dst-sip-rate-action-list-name are mutually exclusive

dst-sip-rate-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-sip-rate-action-list-name and dst-sip-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

method

Description: method is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method*

Type: Object

sip-list_dst_sip-request-rate-limit_method

Specification	Value
Type	*object*

bye-cfg

Description: bye-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_bye-cfg*

Type: Object

invite-cfg

Description: invite-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_invite-cfg*

Type: Object

message-cfg

Description: message-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_message-cfg*

Type: Object

notify-cfg

Description: notify-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_notify-cfg*

Type: Object

options-cfg

Description: options-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_options-cfg*

Type: Object

refer-cfg

Description: refer-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_refer-cfg*

Type: Object

register-cfg

Description: register-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_register-cfg*

Type: Object

subscribe-cfg

Description: subscribe-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_subscribe-cfg*

Type: Object

update-cfg

Description: update-cfg is a **JSON Block**. Please see below for *sip-list_dst_sip-request-rate-limit_method_update-cfg*

Type: Object

sip-list_dst_sip-request-rate-limit_method_options-cfg

Specification	Value
Type	*object*

OPTIONS

Description OPTIONS method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-options-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_refer-cfg

Specification	Value
Type	*object*

REFER

Description REFER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-refer-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_bye-cfg

Specification	Value
Type	*object*

BYE

Description BYE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-bye-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_subscribe-cfg

Specification	Value
Type	*object*

SUBSCRIBE

Description SUBSCRIBE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-subscribe-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_register-cfg

Specification	Value
Type	*object*

REGISTER

Description REGISTER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-register-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_invite-cfg

Specification	Value
Type	*object*

INVITE

Description INVITE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-invite-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_message-cfg

Specification	Value
Type	*object*

MESSAGE

Description MESSAGE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-message-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_update-cfg

Specification	Value
Type	*object*

UPDATE

Description UPDATE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-update-rate

Description

Type: number

Range: 1-16000000

sip-list_dst_sip-request-rate-limit_method_notify-cfg

Specification	Value
Type	*object*

NOTIFY

Description NOTIFY method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-notify-rate

Description

Type: number

Range: 1-16000000

sip-list_idle-timeout

Specification	Value
Type	*object*

idle-timeout-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset (sip-tcp) client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: idle-timeout-action and idle-timeout-action-list-name are mutually exclusive

idle-timeout-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: idle-timeout-action-list-name and idle-timeout-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

idle-timeout-value

Description Set the the idle timeout value for SIP-TCP connections

Type: number

Range: 1-63

ignore-zero-payload

Description Don't reset idle timer on packets with zero payload length from clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-list_multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

sip-list_malformed-sip

Specification	Value
Type	*object*

malformed-sip-action

Description 'drop': Drop packets (Default); 'reset': Reset (sip-tcp) client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: malformed-sip-action and malformed-sip-action-list-name are mutually exclusive

malformed-sip-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: malformed-sip-action-list-name and malformed-sip-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

malformed-sip-call-id-max-length

Description Set the maximum call-id length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-check

Description 'enable-check': Enable malformed SIP parameters;

Type: string

Supported Values: enable-check

malformed-sip-max-header-name-length

Description Set the maximum header name length. Default value is 63

Type: number

Range: 1-63

Default: 63

malformed-sip-max-header-value-length

Description Set the maximum header value length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-line-size

Description Set the maximum line size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-uri-length

Description Set the maximum uri size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-sdp-max-length

Description Set the maxinum SDP content length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sip-list_filter-header-list

Specification	Value
Type	*list*
Block object keys	

sip-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src; 'reset': Reset client connection(for sip-tcp);

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src, reset

Mutual Exclusion: sip-filter-action and sip-filter-action-list-name are mutually exclusive

sip-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip-filter-action-list-name and sip-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

sip-filter-header-seq

Description Sequence number

Type: number

Range: 1-200

sip-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip-header-cfg

Description: sip-header-cfg is a **JSON Block**. Please see below for *sip-list_filter-header-list_sip-header-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sip-list_filter-header-list_sip-header-cfg

Specification	Value
Type	*object*

sip-filter-header-inverse-match

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

icmp-v6-list

Specification	Value
Type	*list*
Block object keys	

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/filter/{icmp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

icmp-tmpl-name

Description DDOS ICMPv6 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type/{type-number}*

type-other

Description: type-other is a **JSON Block**. Please see below for *icmp-v6-list_type-other*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type-other*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-v6-list_type-list

Specification	Value
Type	*list*
Block object keys	

dst-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

dst-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-other-rate-action and dst-code-other-rate-action-list-name are mutually exclusive

dst-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-other-rate-action-list-name and dst-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-type-action

Description 'drop': Reject this ICMP type; 'blacklist-src': Blacklist-src this ICMP type; 'ignore': Ignore this ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-action and icmp-type-action-list-name are mutually exclusive

icmp-type-action-list-name

Description Configure action-list to take for this ICMP type

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-action-list-name and icmp-type-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

src-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-other-rate-action and src-code-other-rate-action-list-name are mutually exclusive

src-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-other-rate-action-list-name and src-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v6-dst-code-cfg

Type: List

v6-dst-rate-cfg

Description: v6-dst-rate-cfg is a **JSON Block**. Please see below for *icmp-v6-list_type-list_v6-dst-rate-cfg*

Type: Object

v6-src-code-cfg

Type: List

v6-src-rate-cfg

Description: v6-src-rate-cfg is a **JSON Block**. Please see below for *icmp-v6-list_type-list_v6-src-rate-cfg*

Type: Object

icmp-v6-list_type-list_v6-dst-rate-cfg

Specification	Value
Type	*object*

dst-type-rate

Description Specify the whole dst rate for this type

Type: number

Range: 1-16000000

dst-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-rate-action and dst-type-rate-action-list-name are mutually exclusive

dst-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-rate-action-list-name and dst-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-v6-list_type-list_v6-src-rate-cfg

Specification	Value
Type	*object*

src-type-rate

Description Specify the whole src rate for this type

Type: number

Range: 1-16000000

src-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-rate-action and src-type-rate-action-list-name are mutually exclusive

src-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-rate-action-list-name and src-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-v6-list_type-list_v6-src-code-cfg

Specification	Value
Type	*list*
Block object keys	

src-code-number

Description Specify the ICMP code for this src rate

Type: number

Range: 0-255

src-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

src-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-rate-action and src-code-rate-action-list-name are mutually exclusive

src-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-rate-action-list-name and src-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-v6-list_type-list_v6-dst-code-cfg

Specification	Value
Type	*list*
Block object keys	

dst-code-number

Description Specify the ICMP code for this dst rate

Type: number

Range: 0-255

dst-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

dst-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-rate-action and dst-code-rate-action-list-name are mutually exclusive

dst-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-rate-action-list-name and dst-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-v6-list_type-other

Specification	Value
Type	*object*

dst

Description: dst is a **JSON Block**. Please see below for *icmp-v6-list_type-other_dst*

Type: Object

icmp-type-other-action

Description 'drop': Reject wildcard ICMP type; 'blacklist-src': Blacklist-src wildcard ICMP type; 'ignore': Ignore wildcard ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-other-action and icmp-type-other-action-list-name are mutually exclusive

icmp-type-other-action-list-name

Description Configure action-list to take for wildcard ICMP match

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-other-action-list-name and icmp-type-other-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src

Description: src is a **JSON Block**. Please see below for *icmp-v6-list_type-other_src*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-v6-list_type-other_src

Specification	Value
Type	*object*

src-type-other-rate

Description Specify the whole src rate for wildcard ICMP type

Type: number

Range: 1-16000000

src-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-other-rate-action and src-type-other-rate-action-list-name are mutually exclusive

src-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-other-rate-action-list-name and src-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-v6-list_type-other_dst

Specification	Value
Type	*object*

dst-type-other-rate

Description Specify the whole dst rate for wildcard ICMP type

Type: number

Range: 1-16000000

dst-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-other-rate-action and dst-type-other-rate-action-list-name are mutually exclusive

dst-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-other-rate-action-list-name and dst-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-v6-list_filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description filter using Berkeley packet filter syntax

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

icmp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, blacklist-src

Default: drop

Mutual Exclusion: icmp-filter-action and icmp-filter-action-list-name are mutually exclusive

icmp-filter-action-list-name

Description list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-filter-action-list-name and icmp-filter-action are mutually exclusive

icmp-filter-inverse-match

Description Inverse the result of matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

icmp-filter-seq

Description sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.559 ddos zone-template dns

DNS template Configuration

dns Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*dns-list*
Collection URI	/axapi/v3/ddos/zone-template/dns
Element Name	dns
Element URI	/axapi/v3/ddos/zone-template/dns/{name}
Element Attributes	dns_attributes
Partition Visibility	shared
Schema	`dns schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/dns

dns attributes

```
POST /axapi/v3/ddos/zone-template/dns/
Payload:
{
    "dns": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-template/dns

dns attributes

Get Object

GET

/axapi/v3/ddos/zone-template/dns/{name}

dns attributes

```
GET /axapi/v3/ddos/zone-template/dns/a
Reponse:
{
```

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```
    "dns": {
        "name": "a",
        "dns-any-check": 0,
        "dns-udp-authentication": {
            "force-tcp-cfg": {
                "force-tcp": 0
            }
        },
        "src": {
            "rate-limit": {
                "request": {
                    "type": {
                        "A-cfg": {
                            "A": 0
                        },
                        "AAAA-cfg": {
                            "AAAA": 0
                        },
                        "CNAME-cfg": {
                            "CNAME": 0
                        },
                        "MX-cfg": {
                            "MX": 0
                        },
                        "NS-cfg": {
                            "NS": 0
                        },
                        "SRV-cfg": {
                            "SRV": 0
                        }
                    }
                }
            }
        },
        "dst": {
            "rate-limit": {
                "domain-group-rate-exceed-action": "drop",
                "domain-group-rate-per-service": 0,
                "request": {
                    "type": {
                        "A-cfg": {
                            "A": 0
                        },
                        "AAAA-cfg": {
                            "AAAA": 0
                        },
                        "CNAME-cfg": {
                            "CNAME": 0
                        },
                        "MX-cfg": {
                            "MX": 0
                        },
```

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```
                        "NS-cfg": {
                            "NS": 0
                        },
                        "SRV-cfg": {
                            "SRV": 0
                        }
                    }
                }
            }
        },
        "symtimeout-cfg": {
            "sym-timeout": 0
        },
        "allow-query-class": {
            "allow-internet-query-class": 0,
            "allow-csnet-query-class": 0,
            "allow-chaos-query-class": 0,
            "allow-hesiod-query-class": 0,
            "allow-none-query-class": 0,
            "allow-any-query-class": 0
        },
        "allow-record-type": {
            "allow-a-type": 0,
            "allow-aaaa-type": 0,
            "allow-cname-type": 0,
            "allow-mx-type": 0,
            "allow-ns-type": 0,
            "allow-srv-type": 0
        },
        "uuid": "c8a80f22-088b-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/zone-template/dns/a"
    }
}
```


Get List

GET

/axapi/v3/ddos/zone-template/dns

dns-list

Modify Object

POST

/axapi/v3/ddos/zone-template/dns/{name}

dns attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/dns/{name}

dns attributes

```
PUT /axapi/v3/ddos/zone-template/dns/a
Payload:
{
    "dns": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-template/dns

dns-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/dns/{name}

dns attributes

```
DELETE /axapi/v3/ddos/zone-template/dns/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

dns-list

dns-list is **JSON List** of *dns attributes*

dns-list : [

{ *dns attributes* },

{ *dns attributes* },

...

]

dns attributes

allow-query-class

Description: allow-query-class is a **JSON Block**. Please see below for *allow-query-class*

Type: Object

allow-record-type

Description: allow-record-type is a **JSON Block**. Please see below for *allow-record-type*

Type: Object

dns-any-check

Description Drop DNS queries of Type ANY

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-any-check-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Default: drop

Mutual Exclusion: dns-any-check-action and dns-any-check-action-list-name are mutually exclusive

dns-any-check-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-any-check-action-list-name and dns-any-check-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dns-udp-authentication

Description: dns-udp-authentication is a **JSON Block**. Please see below for *dns-udp-authentication*

Type: Object

domain-group-name

Description Apply a domain-group to the DNS template

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

dst

Description: dst is a **JSON Block**. Please see below for *dst*

Type: Object

fqdn-label-count-cfg

Description: fqdn-label-count-cfg is a **JSON Block**. Please see below for *fqdn-label-count-cfg*

Type: Object

fqdn-label-len-cfg

Type: List

malformed-query-check

Description: malformed-query-check is a **JSON Block**. Please see below for *malformed-query-check*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/dns/{name}/malformed-query-check*

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *multi-pu-threshold-distribution*

Type: Object

name

Description DDOS DNS Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

on-no-match

Description 'permit': permit; 'deny': deny (default);

Type: string

Supported Values: permit, deny

Default: deny

src

Description: src is a **JSON Block**. Please see below for *src*

Type: Object

symtimeout-cfg

Description: symtimeout-cfg is a **JSON Block**. Please see below for *symtimeout-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *src_rate-limit*

Type: Object

src_rate-limit

Specification	Value
Type	*object*

nxdomain

Description: nxdomain is a **JSON Block**. Please see below for *src_rate-limit_nxdomain*

Type: Object

request

Description: request is a **JSON Block**. Please see below for *src_rate-limit_request*

Type: Object

src_rate-limit_request

Specification	Value
Type	*object*

src-dns-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: src-dns-request-rate-limit-action and src-dns-request-rate-limit-action-list-name are mutually exclusive

src-dns-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-dns-request-rate-limit-action-list-name and src-dns-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type

Description: type is a **JSON Block**. Please see below for *src_rate-limit_request_type*

Type: Object

src_rate-limit_request_type

Specification	Value
Type	*object*

A-cfg

Description: A-cfg is a **JSON Block**. Please see below for *src_rate-limit_request_type_A-cfg*

Type: Object

AAAA-cfg

Description: AAAA-cfg is a **JSON Block**. Please see below for *src_rate-limit_request_type_AAAA-cfg*

Type: Object

CNAME-cfg

Description: CNAME-cfg is a **JSON Block**. Please see below for *src_rate-limit_request_type_CNAME-cfg*

Type: Object

MX-cfg

Description: MX-cfg is a **JSON Block**. Please see below for *src_rate-limit_request_type_MX-cfg*

Type: Object

NS-cfg

Description: NS-cfg is a **JSON Block**. Please see below for *src_rate-limit_request_type_NS-cfg*

Type: Object

SRV-cfg

Description: SRV-cfg is a **JSON Block**. Please see below for *src_rate-limit_request_type_SRV-cfg*

Type: Object

dns-type-cfg

Type: List

src_rate-limit_request_type_SRV-cfg

Specification	Value
Type	*object*

SRV

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-srv-rate

Description DNS request rate

Type: number

Range: 1-16000000

src_rate-limit_request_type_CNAME-cfg

Specification	Value
Type	*object*

CNAME

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-cname-rate

Description

Type: number

Range: 1-16000000

src_rate-limit_request_type_dns-type-cfg

Specification	Value
Type	*list*
Block object keys	

src-dns-request-type

Description Other type value

Type: number

Range: 1-65535

src-dns-request-type-rate

Description request rate limit

Type: number

Range: 1-16000000

src_rate-limit_request_type_AAAA-cfg

Specification	Value
Type	*object*

AAAA

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-aaaa-rate

Description

Type: number

Range: 1-16000000

src_rate-limit_request_type_A-cfg

Specification	Value
Type	*object*

A

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-a-rate

Description

Type: number

Range: 1-16000000

src_rate-limit_request_type_MX-cfg

Specification	Value
Type	*object*

MX

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-mx-rate

Description

Type: number

Range: 1-16000000

src_rate-limit_request_type_NS-cfg

Specification	Value
Type	*object*

NS

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-dns-ns-rate

Description

Type: number

Range: 1-16000000

src_rate-limit_nxdomain

Specification	Value
Type	*object*

dns-nxdomain-rate

Description Limiting rate

Type: number

Range: 1-16000000

dns-nxdomain-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: dns-nxdomain-rate-limit-action and dns-nxdomain-rate-limit-action-list-name are mutually exclusive

dns-nxdomain-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-nxdomain-rate-limit-action-list-name and dns-nxdomain-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

fqdn-label-count-cfg

Specification	Value
Type	*object*

fqdn-label-count-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Send reset to client;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: fqdn-label-count-action and fqdn-label-count-action-list-name are mutually exclusive

fqdn-label-count-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fqdn-label-count-action-list-name and fqdn-label-count-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

label-count

Description Maximum number of FQDN labels per FQDN

Type: number

Range: 1-10

malformed-query-check

Specification	Value
Type	*object*

dns-malformed-query-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: dns-malformed-query-action and dns-malformed-query-action-list-name are mutually exclusive

dns-malformed-query-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-malformed-query-action-list-name and dns-malformed-query-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

non-query-opcode-check

Description 'disable': When malform check is enabled, TPS always drops DNS query with non query opcode, this option disables this opcode check;

Type: string

Supported Values: disable

skip-multi-packet-check

Description Bypass DNS fragmented and TCP segmented Queries(Default: dropped)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

validation-type

Description 'basic-header-check': Basic header validation for DNS TCP/UDP queries; 'extended-header-check': Extended header/query validation for DNS TCP/UDP queries; 'disable': Disable Malform query validation for DNS TCP/UDP;

Type: string

Supported Values: basic-header-check, extended-header-check, disable

dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *dst_rate-limit*

Type: Object

dst_rate-limit

Specification	Value
Type	*object*

domain-group-rate-exceed-action

Description 'drop': Drop the query (default); 'tunnel-encap-packet': Encapsulate the query and send on a tunnel;

Type: string

Supported Values: drop, tunnel-encap-packet

Default: drop

domain-group-rate-per-service

Description Enable per service domain rate checking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

encap-template

Description DDOS encap template to sepcify the tunnel endpoint

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/zone-template/encap*

fqdn

Description: fqdn is a **JSON Block**. Please see below for *dst_rate-limit_fqdn*

Type: Object

request

Description: request is a **JSON Block**. Please see below for *dst_rate-limit_request*

Type: Object

dst_rate-limit_request

Specification	Value
Type	*object*

dst-dns-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Mutual Exclusion: dst-dns-request-rate-limit-action and dst-dns-request-rate-limit-action-list-name are mutually exclusive

dst-dns-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-dns-request-rate-limit-action-list-name and dst-dns-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type

Description: type is a **JSON Block**. Please see below for *dst_rate-limit_request_type*

Type: Object

dst_rate-limit_request_type

Specification	Value
Type	*object*

A-cfg

Description: A-cfg is a **JSON Block**. Please see below for *dst_rate-limit_request_type_A-cfg*

Type: Object

AAAA-cfg

Description: AAAA-cfg is a **JSON Block**. Please see below for *dst_rate-limit_request_type_AAAA-cfg*

Type: Object

CNAME-cfg

Description: CNAME-cfg is a **JSON Block**. Please see below for *dst_rate-limit_request_type_CNAME-cfg*

Type: Object

MX-cfg

Description: MX-cfg is a **JSON Block**. Please see below for *dst_rate-limit_request_type_MX-cfg*

Type: Object

NS-cfg

Description: NS-cfg is a **JSON Block**. Please see below for *dst_rate-limit_request_type_NS-cfg*

Type: Object

SRV-cfg

Description: SRV-cfg is a **JSON Block**. Please see below for *dst_rate-limit_request_type_SRV-cfg*

Type: Object

dns-type-cfg

Type: List

dst_rate-limit_request_type_SRV-cfg

Specification	Value
Type	*object*

SRV

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-srv-rate

Description DNS request rate

Type: number

Range: 1-16000000

dst_rate-limit_request_type_CNAME-cfg

Specification	Value
Type	*object*

CNAME

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-cname-rate

Description

Type: number

Range: 1-16000000

dst_rate-limit_request_type_dns-type-cfg

Specification	Value
Type	*list*
Block object keys	

dns-request-type

Description Other type value

Type: number

Range: 1-65535

dns-request-type-rate

Description request rate limit

Type: number

Range: 1-16000000

dst_rate-limit_request_type_AAAA-cfg

Specification	Value
Type	*object*

AAAA

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-aaaa-rate

Description

Type: number

Range: 1-16000000

dst_rate-limit_request_type_A-cfg

Specification	Value
Type	*object*

A

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-a-rate

Description

Type: number

Range: 1-16000000

dst_rate-limit_request_type_MX-cfg

Specification	Value
Type	*object*

MX

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-mx-rate

Description

Type: number

Range: 1-16000000

dst_rate-limit_request_type_NS-cfg

Specification	Value
Type	*object*

NS

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-ns-rate

Description

Type: number

Range: 1-16000000

dst_rate-limit_fqdn

Specification	Value
Type	*object*

dns-fqdn-rate-cfg

Type: List

dns-fqdn-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Mutual Exclusion: dns-fqdn-rate-limit-action and dns-fqdn-rate-limit-action-list-name are mutually exclusive

dns-fqdn-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-fqdn-rate-limit-action-list-name and dns-fqdn-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dst_rate-limit_fqdn_dns-fqdn-rate-cfg

Specification	Value
Type	*list*
Block object keys	

dns-fqdn-rate

Description Limiting rate (Range: 5-8000 for FQDN domain based rate limiting, 5-16000000 for FQDN label count based rate limiting)

Type: number

Range: 5-16000000

fqdn-rate-label-count

Description FQDN label count (Range: 1-8)

Type: number

Range: 1-8

fqdn-rate-suffix

Description Suffix count

Type: number

Range: 1-5

per

Description 'domain-name': Domain Name; 'src-ip': Source IP address; 'label-count': FQDN label count;

Type: string

Supported Values: domain-name, src-ip, label-count

per-domain-per-src-ip

Description Use both Domain Name and Source IP address for rate-limiting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-record-type

Specification	Value
Type	*object*

allow-a-type

Description Address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-aaaa-type

Description IPv6 address record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-cname-type

Description Canonical name record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-mx-type

Description Mail exchange record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-ns-type

Description Name server record

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-record-type-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: allow-record-type-action and allow-record-type-action-list-name are mutually exclusive

allow-record-type-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: allow-record-type-action-list-name and allow-record-type-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

allow-srv-type

Description Service locator

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

record-num-cfg

Type: List

allow-record-type_record-num-cfg

Specification	Value
Type	*list*
Block object keys	

allow-num-type

Description Other record type value

Type: number

Range: 1-65535

allow-query-class

Specification	Value
Type	*object*

allow-any-query-class

Description ANY query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-chaos-query-class

Description CHAOS query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-csnet-query-class

Description CSNET query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-hesiod-query-class

Description HESIOD query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-internet-query-class

Description INTERNET query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-none-query-class

Description NONE query class

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-query-class-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: allow-query-class-action and allow-query-class-action-list-name are mutually exclusive

allow-query-class-action-list-name

Description Configure action-list to take when query class doesn't match

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: allow-query-class-action-list-name and allow-query-class-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dns-udp-authentication

Specification	Value
Type	*object*

dns-udp-auth-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: dns-udp-auth-fail-action and dns-udp-auth-fail-action-list-name are mutually exclusive

dns-udp-auth-fail-action-list-name

Description Configure action-list to take for failing the authentication. (Applicable to dns-udp retry only)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-udp-auth-fail-action-list-name and dns-udp-auth-fail-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dns-udp-auth-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: dns-udp-auth-pass-action and dns-udp-auth-pass-action-list-name are mutually exclusive

dns-udp-auth-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-udp-auth-pass-action-list-name and dns-udp-auth-pass-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

force-tcp-cfg

Description: force-tcp-cfg is a **JSON Block**. Please see below for *dns-udp-authentication_force-tcp-cfg*

Type: Object

min-delay

Description Optional minimum delay between DNS retransmits for authentication to pass, unit is specified by min-delay-interval

Type: number

Range: 1-80

Mutual Exclusion: min-delay and force-tcp are mutually exclusive

min-delay-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

udp-timeout

Description UDP authentication timeout in seconds

Type: number

Range: 1-16

Mutual Exclusion: udp-timeout and force-tcp are mutually exclusive

dns-udp-authentication_force-tcp-cfg

Specification	Value
Type	*object*

force-tcp

Description Force DNS request over TCP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: force-tcp, udp-timeout, and min-delay are mutually exclusive

force-tcp-ignore-client-source-port

Description Allow client to retransmit DNS request using different source port during udp-auth (supported in asymmetric mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

force-tcp-min-delay

Description Optional minimum delay (seconds) between DNS retransmits for authentication to pass

Type: number

Range: 1-15

force-tcp-timeout

Description UDP authentication timeout in seconds

Type: number

Range: 1-16

multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

fqdn-label-len-cfg

Specification	Value
Type	*list*
Block object keys	

fqdn-label-length-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: fqdn-label-length-action and fqdn-label-length-action-list-name are mutually exclusive

fqdn-label-length-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: fqdn-label-length-action-list-name and fqdn-label-length-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

fqdn-label-suffix

Description Number of suffixes

Type: number

Range: 1-5

label-length

Description Maximum length of FQDN label

Type: number

Range: 1-63

symtimeout-cfg

Specification	Value
Type	*object*

sym-timeout

Description Timeout for DNS Symmetric session

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sym-timeout-value

Description Session timeout value in seconds

Type: number

Range: 1-31

2.33.560 ddos zone-template dns malformed-query-check

DNS Malform Query check options

malformed-query-check Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	malformed-query-check
Element URI	/axapi/v3/ddos/zone-template/dns/{name}/malformed-query-check
Element Attributes	malformed-query-check_attributes
Partition Visibility	shared
Schema	`malformed-query-check schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/dns/{name}/malformed-query-check

malformed-query-check attributes

```
POST /axapi/v3/ddos/zone-template/dns/a/malformed-query-check
Payload:
{
    "malformed-query-check": {
        "validation-type": "basic-header-check"
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/dns/{name}/malformed-query-check

malformed-query-check attributes

```
GET /axapi/v3/ddos/zone-template/dns/a/malformed-query-check
Reponse:
{
    "malformed-query-check": {
        "validation-type": "basic-header-check",
        "skip-multi-packet-check": 0,
        "uuid": "c80d7bc8-088c-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-template/dns/a/malformed-query-check"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/dns/{name}/malformed-query-check

malformed-query-check attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/dns/{name}/malformed-query-check

malformed-query-check attributes

```
PUT /axapi/v3/ddos/zone-template/dns/a/malformed-query-check
Payload:
{
    "malformed-query-check": {
        "validation-type": "extended-header-check"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-template/dns/{name}/malformed-query-check

malformed-query-check attributes

```
DELETE /axapi/v3/ddos/zone-template/dns/a/malformed-query-check
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

malformed-query-check attributes

dns-malformed-query-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: dns-malformed-query-action and dns-malformed-query-action-list-name are mutually exclusive

dns-malformed-query-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dns-malformed-query-action-list-name and dns-malformed-query-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

non-query-opcode-check

Description 'disable': When malform check is enabled, TPS always drops DNS query with non query opcode, this option disables this opcode check;

Type: string

Supported Values: disable

skip-multi-packet-check

Description Bypass DNS fragmented and TCP segmented Queries(Default: dropped)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

validation-type

Description 'basic-header-check': Basic header validation for DNS TCP/UDP queries; 'extended-header-check': Extended header/query validation for DNS TCP/UDP queries; 'disable': Disable Malform query validation for DNS TCP/UDP;

Type: string

Supported Values: basic-header-check, extended-header-check, disable

2.33.561 ddos zone-template encap

Encapsulation template Configuration

encap Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*encap-tmpl-name*
Collection Name	*encap-list*
Collection URI	/axapi/v3/ddos/zone-template/encap
Element Name	encap
Element URI	/axapi/v3/ddos/zone-template/encap/{encap-tmpl-name}
Element Attributes	encap_attributes
Partition Visibility	shared
Schema	`encap schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/encap

encap attributes

```
POST /axapi/v3/ddos/zone-template/encap/
Payload:
{
    "encap": {
        "encap-tmpl-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-template/encap

encap attributes

Get Object

GET

/axapi/v3/ddos/zone-template/encap/{encap-tmpl-name}

encap attributes

```
GET /axapi/v3/ddos/zone-template/encap/a
Reponse:
{
    "encap": {
        "encap-tmpl-name": "a",
        "tunnel-encap": {
            "ip-cfg": {
                "ip-encap": 0
```

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```
            },
            "gre-cfg": {
                "gre-encap": 0
            }
        },
        "preserve-source-ip": 0,
        "uuid": "e1ae9ff8-088c-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/zone-template/encap/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/zone-template/encap

encap-list

Modify Object

POST

/axapi/v3/ddos/zone-template/encap/{encap-tmpl-name}

encap attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/encap/{encap-tmpl-name}

encap attributes

```
PUT /axapi/v3/ddos/zone-template/encap/a
Payload:
{
    "encap": {
        "encap-tmpl-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-template/encap

encap-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/encap/{encap-tmpl-name}

encap attributes

```
DELETE /axapi/v3/ddos/zone-template/encap/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

encap-list

encap-list is **JSON List** of *encap attributes*

encap-list : [

{ *encap attributes* },

{ *encap attributes* },

...

]

encap attributes

encap-tmpl-name

Description DDOS Tunnel Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

preserve-source-ip

Description Use original source ip for encapsulation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap

Description: tunnel-encap is a **JSON Block**. Please see below for *tunnel-encap*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tunnel-encap

Specification	Value
Type	*object*

gre-cfg

Description: gre-cfg is a **JSON Block**. Please see below for *tunnel-encap_gre-cfg*

Type: Object

ip-cfg

Description: ip-cfg is a **JSON Block**. Please see below for *tunnel-encap_ip-cfg*

Type: Object

tunnel-encap_ip-cfg

Specification	Value
Type	*object*

always

Description: always is a **JSON Block**. Please see below for *tunnel-encap_ip-cfg_always*

Type: Object

ip-encap

Description Enable Tunnel encapsulation using IP in IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap_ip-cfg_always

Specification	Value
Type	*object*

ipv4-addr

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

ipv6-addr

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

tunnel-encap_gre-cfg

Specification	Value
Type	*object*

gre-always

Description: gre-always is a **JSON Block**. Please see below for *tunnel-encap_gre-cfg_gre-always*

Type: Object

gre-encap

Description Enable Tunnel encapsulation using GRE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-encap_gre-cfg_gre-always

Specification	Value
Type	*object*

gre-ipv4

Description IPv4 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv4-address

gre-ipv6

Description IPv6 address (IPv6-over-IPv4 / IPv4-over-IPv6 are not supported.)

Type: string

Format: ipv6-address

key-ipv4

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

key-ipv6

Description Encapsulate with key (Hexadecimal 0x0-0xFFFFFFFF,decimal 0-4294967295)

Type: string

Maximum Length: 10 characters

Maximum Length: 1 characters

2.33.562 ddos zone-template http

HTTP template Configuration

http Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*http-tmpl-name*
Collection Name	*http-list*
Collection URI	/axapi/v3/ddos/zone-template/http
Element Name	http
Element URI	/axapi/v3/ddos/zone-template/http/{http-tmpl-name}
Element Attributes	http_attributes
Partition Visibility	shared
Schema	`http schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/http

http attributes

```
POST /axapi/v3/ddos/zone-template/http/
Payload:
{
    "http": {
```

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```
        "http-tmpl-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-template/http

http attributes

Get Object

GET

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}

http attributes

```
GET /axapi/v3/ddos/zone-template/http/a
Reponse:
{
    "http": {
        "http-tmpl-name": "a",
        "disallow-connect-method": 0,
        "challenge": {
            "challenge-cookie-name": "sto-idd",
            "challenge-keep-cookie": 0,
            "challenge-interval": 8,
            "challenge-fail-action": "reset"
        },
        "non-http-bypass": 0,
        "client-source-ip": {
            "client-source-ip": 0
        },
        "request-header": {
            "header-timeout-action": "drop"
        },
        "src": {
            "rate-limit": {
                "http-post": {
                    "src-post-rate-limit-action": "drop"
                },
                "http-request": {
                    "src-request-rate-limit-action": "drop"
                }
            }
        },
        "dst": {
            "rate-limit": {
                "http-post": {
                    "dst-post-rate-limit-action": "drop"
                },
```

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```
                "http-request": {
                    "dst-request-rate-limit-action": "drop"
                }
            }
        },
        "out-of-order-queue-size": 3,
        "out-of-order-queue-timeout": 3,
        "uuid": "0d0d4f64-088d-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/zone-template/http/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/zone-template/http

http-list

Modify Object

POST

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}

http attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}

http attributes

```
PUT /axapi/v3/ddos/zone-template/http/a
Payload:
{
    "http": {
        "http-tmpl-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-template/http

http-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}

http attributes

```
DELETE /axapi/v3/ddos/zone-template/http/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

http-list

http-list is **JSON List** of *http attributes*

http-list : [

{ *http attributes* },

{ *http attributes* },

...

]

http attributes

challenge

Description: challenge is a **JSON Block**. Please see below for *challenge*

Type: Object

client-source-ip

Description: client-source-ip is a **JSON Block**. Please see below for *client-source-ip*

Type: Object

disable

Description Disable this template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disallow-connect-method

Description Do not allow HTTP Connect method (asymmetric mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst

Description: dst is a **JSON Block**. Please see below for *dst*

Type: Object

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/http/{http-tmpl-name}/filter/{http-filter-name}*

http-tmpl-name

Description DDOS HTTP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

idle-timeout

Description: idle-timeout is a **JSON Block**. Please see below for *idle-timeout*

Type: Object

malformed-http

Description: malformed-http is a **JSON Block**. Please see below for *malformed-http*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/http/{http-tmpl-name}/malformed-http*

mss-timeout

Description: mss-timeout is a **JSON Block**. Please see below for *mss-timeout*

Type: Object

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *multi-pu-threshold-distribution*

Type: Object

non-http-bypass

Description Bypass non-http traffic instead of dropping

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

out-of-order-queue-size

Description Set the number of packets for the out-of-order HTTP queue (asym mode only)

Type: number

Range: 0-15

Default: 3

out-of-order-queue-timeout

Description Set the timeout value in seconds for out-of-order queue in HTTP (asym mode only)

Type: number

Range: 0-15

Default: 3

request-header

Description: request-header is a **JSON Block**. Please see below for *request-header*

Type: Object

slow-read

Description: slow-read is a **JSON Block**. Please see below for *slow-read*

Type: Object

src

Description: src is a **JSON Block**. Please see below for *src*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

client-source-ip

Specification	Value
Type	*object*

client-source-ip

Description Mitigate on src ip specified by http header for example X-Forwarded-For header. Default is disabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-header-name

Description Set the http header name to parse for client ip. Default is X-Forwarded-For

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: X-Forwarded-For

dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *dst_rate-limit*

Type: Object

dst_rate-limit

Specification	Value
Type	*object*

http-post

Description: http-post is a **JSON Block**. Please see below for *dst_rate-limit_http-post*

Type: Object

http-request

Description: http-request is a **JSON Block**. Please see below for *dst_rate-limit_http-request*

Type: Object

response-size

Description: response-size is a **JSON Block**. Please see below for *dst_rate-limit_response-size*

Type: Object

dst_rate-limit_response-size

Specification	Value
Type	*object*

between-cfg

Type: List

greater-cfg

Type: List

less-cfg

Type: List

response-size-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: response-size-action and response-size-action-list-name are mutually exclusive

response-size-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: response-size-action-list-name and response-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dst_rate-limit_response-size_between-cfg

Specification	Value
Type	*list*
Block object keys	

obj-between-rate

Description Response rate limit

Type: number

Range: 1-16000000

obj-between1

Description Response size configuration

Type: number

Range: 1-16000000

obj-between2

Description Response size configuration

Type: number

Range: 1-16000000

dst_rate-limit_response-size_greater-cfg

Specification	Value
Type	*list*
Block object keys	

obj-greater

Description Response size configuration

Type: number

Range: 1-16000000

obj-greater-rate

Description Response rate limit

Type: number

Range: 1-16000000

dst_rate-limit_response-size_less-cfg

Specification	Value
Type	*list*
Block object keys	

obj-less

Description Response size configuration

Type: number

Range: 1-16000000

obj-less-rate

Description Response rate limit

Type: number

Range: 1-16000000

dst_rate-limit_http-post

Specification	Value
Type	*object*

dst-post-rate-limit

Description

Type: number

Range: 1-16000000

dst-post-rate-limit-action

Description 'drop': Drop packets(Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: dst-post-rate-limit-action and dst-post-rate-limit-action-list-name are mutually exclusive

dst-post-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-post-rate-limit-action-list-name and dst-post-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dst_rate-limit_http-request

Specification	Value
Type	*object*

dst-request-rate

Description

Type: number

Range: 1-16000000

dst-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: dst-request-rate-limit-action and dst-request-rate-limit-action-list-name are mutually exclusive

dst-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-request-rate-limit-action-list-name and dst-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *src_rate-limit*

Type: Object

src_rate-limit

Specification	Value
Type	*object*

http-post

Description: http-post is a **JSON Block**. Please see below for *src_rate-limit_http-post*

Type: Object

http-request

Description: http-request is a **JSON Block**. Please see below for *src_rate-limit_http-request*

Type: Object

src_rate-limit_http-post

Specification	Value
Type	*object*

src-post-rate-limit

Description

Type: number

Range: 1-16000000

src-post-rate-limit-action

Description 'drop': Drop packets(Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: src-post-rate-limit-action and src-post-rate-limit-action-list-name are mutually exclusive

src-post-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-post-rate-limit-action-list-name and src-post-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src_rate-limit_http-request

Specification	Value
Type	*object*

src-request-rate

Description

Type: number

Range: 1-16000000

src-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: src-request-rate-limit-action and src-request-rate-limit-action-list-name are mutually exclusive

src-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-request-rate-limit-action-list-name and src-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

challenge

Specification	Value
Type	*object*

challenge-cookie-name

Description Set the cookie name used to send back to client. Default is sto-idd

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: sto-idd

challenge-fail-action

Description 'blacklist-src': Blacklist-src; 'reset': Reset client connection(Default);

Type: string

Supported Values: blacklist-src, reset

Default: reset

Mutual Exclusion: challenge-fail-action and challenge-fail-action-list-name are mutually exclusive

challenge-fail-action-list-name

Description Configure action-list to take for failing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-fail-action-list-name and challenge-fail-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

challenge-interval

Description Specify the challenge interval. Default is 8 seconds

Type: number

Range: 1-31

Default: 8

challenge-keep-cookie

Description Keep the challenge cookie from client and forward to backend. Default is do not keep

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

challenge-method

Description 'http-redirect': http-redirect; 'javascript': javascript;

Type: string

Supported Values: http-redirect, javascript

challenge-pass-action

Description 'authenticate-src': Authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: challenge-pass-action and challenge-pass-action-list-name are mutually exclusive

challenge-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: challenge-pass-action-list-name and challenge-pass-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

challenge-redirect-code

Description '302': 302 Found; '307': 307 Temporary Redirect;

Type: string

Supported Values: 302, 307

Default: 302

challenge-uri-encode

Description Encode the challenge phrase in uri instead of in http cookie. Default encoded in http cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

idle-timeout

Specification	Value
Type	*object*

idle-timeout-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: idle-timeout-action and idle-timeout-action-list-name are mutually exclusive

idle-timeout-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: idle-timeout-action-list-name and idle-timeout-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

idle-timeout-value

Description Set the the idle timeout value in seconds for HTTP connections

Type: number

Range: 1-63

ignore-zero-payload

Description Don't reset idle timer on packets with zero payload length from clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

slow-read

Specification	Value
Type	*object*

min-window-count

Description Number of packets

Type: number

Range: 1-31

min-window-size

Description minimum window size

Type: number

Range: 1-65535

slow-read-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'ignore': Take no action; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, ignore, reset

Mutual Exclusion: slow-read-action and slow-read-action-list-name are mutually exclusive

slow-read-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: slow-read-action-list-name and slow-read-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

filter-list

Specification	Value
Type	*list*
Block object keys	

dst

Description: dst is a **JSON Block**. Please see below for *filter-list_dst*

Type: Object

http-agent-cfg

Description: http-agent-cfg is a **JSON Block**. Please see below for *filter-list_http-agent-cfg*

Type: Object

http-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src, reset

Mutual Exclusion: http-filter-action and http-filter-action-list-name are mutually exclusive

http-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http-filter-action-list-name and http-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

http-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-filter-seq

Description Sequence number

Type: number

Range: 1-200

http-header-cfg

Description: http-header-cfg is a **JSON Block**. Please see below for *filter-list_http-header-cfg*

Type: Object

http-referer-cfg

Description: http-referer-cfg is a **JSON Block**. Please see below for *filter-list_http-referer-cfg*

Type: Object

http-uri-cfg

Description: http-uri-cfg is a **JSON Block**. Please see below for *filter-list_http-uri-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

filter-list_http-uri-cfg

Specification	Value
Type	*object*

uri-contains-cfg

Type: List

uri-ends-cfg

Type: List

uri-equal-cfg

Type: List

uri-starts-cfg

Type: List

filter-list_http-uri-cfg_uri-equal-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-equals

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

filter-list_http-uri-cfg_uri-starts-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

filter-list_http-uri-cfg_uri-ends-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

filter-list_http-uri-cfg_uri-contains-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-contains

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

filter-list_dst

Specification	Value
Type	*object*

http-filter-rate-limit

Description Set rate limit

Type: number

Range: 1-16000000

filter-list_http-agent-cfg

Specification	Value
Type	*object*

agent-contains-cfg

Type: List

agent-ends-cfg

Type: List

agent-equals-cfg

Type: List

agent-starts-cfg

Type: List

filter-list_http-agent-cfg_agent-contains-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

filter-list_http-agent-cfg_agent-ends-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

filter-list_http-agent-cfg_agent-equals-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

filter-list_http-agent-cfg_agent-starts-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

filter-list_http-header-cfg

Specification	Value
Type	*object*

http-filter-header-inverse-match

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

filter-list_http-referer-cfg

Specification	Value
Type	*object*

referer-contains-cfg

Type: List

referer-ends-cfg

Type: List

referer-equals-cfg

Type: List

referer-starts-cfg

Type: List

filter-list_http-referer-cfg_referer-equals-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

filter-list_http-referer-cfg_referer-starts-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

filter-list_http-referer-cfg_referer-contains-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

filter-list_http-referer-cfg_referer-ends-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

mss-timeout

Specification	Value
Type	*object*

mss-percent

Description Configure percentage of mss such that if a packet size is below the mss times mss-percent, packet is considered bad.

Type: number

Range: 1-100

mss-timeout-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: mss-timeout-action and mss-timeout-action-list-name are mutually exclusive

mss-timeout-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: mss-timeout-action-list-name and mss-timeout-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

number-packets

Description Specify percentage of mss. Default is 0, mss-timeout is not enabled.

Type: number

Range: 1-31

malformed-http

Specification	Value
Type	*object*

malformed-http

Description 'check': Configure malformed HTTP parameters;

Type: string

Supported Values: check

Default: check

malformed-http-action

Description 'drop': Drop packets (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, reset, blacklist-src

Mutual Exclusion: malformed-http-action and malformed-http-action-list-name are mutually exclusive

malformed-http-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: malformed-http-action-list-name and malformed-http-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

malformed-http-bad-chunk-mon-enabled

Description Enabling bad chunk monitoring. Default is disabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-http-max-content-length

Description Set the maxinum content-length header. Default value is 4294967295 bytes

Type: number

Range: 1-4294967295

Default: 4294967295

malformed-http-max-header-name-size

Description Set the maxinum header name length. Default value is 64.

Type: number

Range: 1-64

Default: 64

malformed-http-max-line-size

Description Set the maximum line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

malformed-http-max-num-headers

Description Set the maximum number of headers. Default value is 90

Type: number

Range: 1-90

Default: 90

malformed-http-max-req-line-size

Description Set the maximum request line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

request-header

Specification	Value
Type	*object*

header-timeout-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Default: drop

Mutual Exclusion: header-timeout-action and header-timeout-action-list-name are mutually exclusive

header-timeout-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: header-timeout-action-list-name and header-timeout-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

timeout

Description

Type: number

Range: 1-63

2.33.563 ddos zone-template http filter

HTTP Filter Configuration

filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*http-filter-name*
Collection Name	*filter-list*
Collection URI	/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/filter
Element Name	filter
Element URI	/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/filter/{http-filter-name}
Element Attributes	filter_attributes
Partition Visibility	shared
Schema	`filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/filter

filter attributes

Create List

POST

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/filter

filter attributes

Get Object

GET

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/filter/{http-filter-name}

filter attributes

Get List

GET

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/filter

filter-list

Modify Object

POST

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/filter/{http-filter-name}

filter attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/filter/{http-filter-name}

filter attributes

Replace List

PUT

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/filter

filter-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/filter/{http-filter-name}

filter attributes

filter-list

filter-list is **JSON List** of *filter attributes*

filter-list : [

{ *filter attributes* },

{ *filter attributes* },

…

]

filter attributes

dst

Description: dst is a **JSON Block**. Please see below for *dst*

Type: Object

http-agent-cfg

Description: http-agent-cfg is a **JSON Block**. Please see below for *http-agent-cfg*

Type: Object

http-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src, reset

Mutual Exclusion: http-filter-action and http-filter-action-list-name are mutually exclusive

http-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: http-filter-action-list-name and http-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

http-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-filter-seq

Description Sequence number

Type: number

Range: 1-200

http-header-cfg

Description: http-header-cfg is a **JSON Block**. Please see below for *http-header-cfg*

Type: Object

http-referer-cfg

Description: http-referer-cfg is a **JSON Block**. Please see below for *http-referer-cfg*

Type: Object

http-uri-cfg

Description: http-uri-cfg is a **JSON Block**. Please see below for *http-uri-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

http-uri-cfg

Specification	Value
Type	*object*

uri-contains-cfg

Type: List

uri-ends-cfg

Type: List

uri-equal-cfg

Type: List

uri-starts-cfg

Type: List

http-uri-cfg_uri-equal-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-equals

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

http-uri-cfg_uri-starts-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

http-uri-cfg_uri-ends-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

http-uri-cfg_uri-contains-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-uri-contains

Description

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

dst

Specification	Value
Type	*object*

http-filter-rate-limit

Description Set rate limit

Type: number

Range: 1-16000000

http-agent-cfg

Specification	Value
Type	*object*

agent-contains-cfg

Type: List

agent-ends-cfg

Type: List

agent-equals-cfg

Type: List

agent-starts-cfg

Type: List

http-agent-cfg_agent-contains-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-agent-cfg_agent-ends-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-agent-cfg_agent-equals-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-agent-cfg_agent-starts-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-agent-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-header-cfg

Specification	Value
Type	*object*

http-filter-header-inverse-match

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

http-referer-cfg

Specification	Value
Type	*object*

referer-contains-cfg

Type: List

referer-ends-cfg

Type: List

referer-equals-cfg

Type: List

referer-starts-cfg

Type: List

http-referer-cfg_referer-equals-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-equals

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-referer-cfg_referer-starts-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-starts-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-referer-cfg_referer-contains-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-contains

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

http-referer-cfg_referer-ends-cfg

Specification	Value
Type	*list*
Block object keys	

http-filter-referer-ends-with

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.33.564 ddos zone-template http malformed-http

Configure and enable malformed HTTP check

malformed-http Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	malformed-http
Element URI	/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/malformed-http
Element Attributes	malformed-http_attributes
Partition Visibility	shared
Schema	`malformed-http schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/malformed-http

malformed-http attributes

```
POST /axapi/v3/ddos/zone-template/http/a/malformed-http
Payload:
{
    "malformed-http": {
        "malformed-http": "check",
        "malformed-http-max-line-size": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/malformed-http

malformed-http attributes

```
GET /axapi/v3/ddos/zone-template/http/a/malformed-http
Reponse:
{
    "malformed-http": {
        "malformed-http": "check",
        "malformed-http-max-line-size": 1,
        "malformed-http-max-num-headers": 90,
        "malformed-http-max-req-line-size": 32512,
        "malformed-http-max-header-name-size": 64,
        "malformed-http-max-content-length": 4294967295,
        "malformed-http-bad-chunk-mon-enabled": 0,
        "uuid": "d5fc25e4-088d-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-template/http/a/malformed-http"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/malformed-http

malformed-http attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/malformed-http

malformed-http attributes

```
PUT /axapi/v3/ddos/zone-template/http/a/malformed-http
Payload:
{
    "malformed-http": {
        "malformed-http": "check",
        "malformed-http-max-line-size": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-template/http/{http-tmpl-name}/malformed-http

malformed-http attributes

```
DELETE /axapi/v3/ddos/zone-template/http/a/malformed-http
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

malformed-http attributes

malformed-http

Description 'check': Configure malformed HTTP parameters;

Type: string

Supported Values: check

Default: check

malformed-http-action

Description 'drop': Drop packets (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, reset, blacklist-src

Mutual Exclusion: malformed-http-action and malformed-http-action-list-name are mutually exclusive

malformed-http-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: malformed-http-action-list-name and malformed-http-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

malformed-http-bad-chunk-mon-enabled

Description Enabling bad chunk monitoring. Default is disabled

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

malformed-http-max-content-length

Description Set the maxinum content-length header. Default value is 4294967295 bytes

Type: number

Range: 1-4294967295

Default: 4294967295

malformed-http-max-header-name-size

Description Set the maxinum header name length. Default value is 64.

Type: number

Range: 1-64

Default: 64

malformed-http-max-line-size

Description Set the maximum line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

malformed-http-max-num-headers

Description Set the maximum number of headers. Default value is 90

Type: number

Range: 1-90

Default: 90

malformed-http-max-req-line-size

Description Set the maximum request line size. Default value is 32512

Type: number

Range: 1-65280

Default: 32512

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.565 ddos zone-template icmp-v4

ICMPv4 template Configuration

icmp-v4 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*icmp-tmpl-name*
Collection Name	*icmp-v4-list*
Collection URI	/axapi/v3/ddos/zone-template/icmp-v4
Element Name	icmp-v4
Element URI	/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}
Element Attributes	icmp-v4_attributes
Partition Visibility	shared
Schema	`icmp-v4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/icmp-v4

icmp-v4 attributes

```
POST /axapi/v3/ddos/zone-template/icmp-v4/
Payload:
{
    "icmp-v4": {
        "icmp-tmpl-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-template/icmp-v4

icmp-v4 attributes

Get Object

GET

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}

icmp-v4 attributes

```
GET /axapi/v3/ddos/zone-template/icmp-v4/a
Reponse:
{
    "icmp-v4": {
        "icmp-tmpl-name": "a",
        "filter-match-type": "default",
        "uuid": "fb30688e-088d-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/zone-template/icmp-v4/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/zone-template/icmp-v4

icmp-v4-list

Modify Object

POST

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}

icmp-v4 attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}

icmp-v4 attributes

```
PUT /axapi/v3/ddos/zone-template/icmp-v4/a
Payload:
{
    "icmp-v4": {
        "icmp-tmpl-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-template/icmp-v4

icmp-v4-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}

icmp-v4 attributes

```
DELETE /axapi/v3/ddos/zone-template/icmp-v4/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

icmp-v4-list

icmp-v4-list is **JSON List** of *icmp-v4 attributes*

icmp-v4-list : [

{ *icmp-v4 attributes* },

{ *icmp-v4 attributes* },

...

]

icmp-v4 attributes

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/filter/{icmp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

icmp-tmpl-name

Description DDOS ICMPv4 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type/{type-number}*

type-other

Description: type-other is a **JSON Block**. Please see below for *type-other*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type-other*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

type-list

Specification	Value
Type	*list*
Block object keys	

dst-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

dst-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-other-rate-action and dst-code-other-rate-action-list-name are mutually exclusive

dst-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-other-rate-action-list-name and dst-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-type-action

Description 'drop': Reject this ICMP type; 'blacklist-src': Blacklist-src this ICMP type; 'ignore': Ignore this ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-action and icmp-type-action-list-name are mutually exclusive

icmp-type-action-list-name

Description Configure action-list to take for this ICMP type

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-action-list-name and icmp-type-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

src-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-other-rate-action and src-code-other-rate-action-list-name are mutually exclusive

src-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-other-rate-action-list-name and src-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-dst-code-cfg

Type: List

v4-dst-rate-cfg

Description: v4-dst-rate-cfg is a **JSON Block**. Please see below for *type-list_v4-dst-rate-cfg*

Type: Object

v4-src-code-cfg

Type: List

v4-src-rate-cfg

Description: v4-src-rate-cfg is a **JSON Block**. Please see below for *type-list_v4-src-rate-cfg*

Type: Object

type-list_v4-src-rate-cfg

Specification	Value
Type	*object*

src-type-rate

Description Specify the whole src rate for this type

Type: number

Range: 1-16000000

src-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-rate-action and src-type-rate-action-list-name are mutually exclusive

src-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-rate-action-list-name and src-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-list_v4-dst-code-cfg

Specification	Value
Type	*list*
Block object keys	

dst-code-number

Description Specify the ICMP code for this dst rate

Type: number

Range: 0-255

dst-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

dst-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-rate-action and dst-code-rate-action-list-name are mutually exclusive

dst-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-rate-action-list-name and dst-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-list_v4-src-code-cfg

Specification	Value
Type	*list*
Block object keys	

src-code-number

Description Specify the ICMP code for this src rate

Type: number

Range: 0-255

src-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

src-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-rate-action and src-code-rate-action-list-name are mutually exclusive

src-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-rate-action-list-name and src-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-list_v4-dst-rate-cfg

Specification	Value
Type	*object*

dst-type-rate

Description Specify the whole dst rate for this type

Type: number

Range: 1-16000000

dst-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-rate-action and dst-type-rate-action-list-name are mutually exclusive

dst-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-rate-action-list-name and dst-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-other

Specification	Value
Type	*object*

dst

Description: dst is a **JSON Block**. Please see below for *type-other_dst*

Type: Object

icmp-type-other-action

Description 'drop': Reject wildcard ICMP type; 'blacklist-src': Blacklist-src wildcard ICMP type; 'ignore': Ignore wildcard ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-other-action and icmp-type-other-action-list-name are mutually exclusive

icmp-type-other-action-list-name

Description Configure action-list to take for wildcard ICMP match

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-other-action-list-name and icmp-type-other-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src

Description: src is a **JSON Block**. Please see below for *type-other_src*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

type-other_src

Specification	Value
Type	*object*

src-type-other-rate

Description Specify the whole src rate for wildcard ICMP type

Type: number

Range: 1-16000000

src-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-other-rate-action and src-type-other-rate-action-list-name are mutually exclusive

src-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-other-rate-action-list-name and src-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-other_dst

Specification	Value
Type	*object*

dst-type-other-rate

Description Specify the whole dst rate for wildcard ICMP type

Type: number

Range: 1-16000000

dst-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-other-rate-action and dst-type-other-rate-action-list-name are mutually exclusive

dst-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-other-rate-action-list-name and dst-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description filter using Berkeley packet filter syntax

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

icmp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, blacklist-src

Default: drop

Mutual Exclusion: icmp-filter-action and icmp-filter-action-list-name are mutually exclusive

icmp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-filter-action-list-name and icmp-filter-action are mutually exclusive

icmp-filter-inverse-match

Description Inverse the result of matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

icmp-filter-seq

Description sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.566 ddos zone-template icmp-v4 filter

ICMP Filter Configuration

filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*icmp-filter-name*
Collection Name	*filter-list*
Collection URI	/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/filter
Element Name	filter
Element URI	/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/filter/{icmp-filter-name}
Element Attributes	filter_attributes
Partition Visibility	shared
Schema	`filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/filter

filter attributes

Create List

POST

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/filter

filter attributes

Get Object

GET

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/filter/{icmp-filter-name}

filter attributes

Get List

GET

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/filter

filter-list

Modify Object

POST

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/filter/{icmp-filter-name}

filter attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/filter/{icmp-filter-name}

filter attributes

Replace List

PUT

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/filter

filter-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/filter/{icmp-filter-name}

filter attributes

filter-list

filter-list is **JSON List** of *filter attributes*

filter-list : [

{ *filter attributes* },

{ *filter attributes* },

...

]

filter attributes

byte-offset-filter

Description filter using Berkeley packet filter syntax

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

icmp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, blacklist-src

Default: drop

Mutual Exclusion: icmp-filter-action and icmp-filter-action-list-name are mutually exclusive

icmp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-filter-action-list-name and icmp-filter-action are mutually exclusive

icmp-filter-inverse-match

Description Inverse the result of matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

icmp-filter-seq

Description sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.567 ddos zone-template icmp-v4 type

Specify ICMP type

type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type-number*
Collection Name	*type-list*
Collection URI	/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type
Element Name	type
Element URI	/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type/{type-number}
Element Attributes	type_attributes
Partition Visibility	shared
Schema	`type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type

type attributes

Create List

POST

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type

type attributes

Get Object

GET

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type/{type-number}

type attributes

Get List

GET

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type

type-list

Modify Object

POST

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type/{type-number}

type attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type/{type-number}

type attributes

Replace List

PUT

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type

type-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type/{type-number}

type attributes

type-list

type-list is **JSON List** of *type attributes*

type-list : [

{ *type attributes* },

{ *type attributes* },

...

]

type attributes

dst-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

dst-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-other-rate-action and dst-code-other-rate-action-list-name are mutually exclusive

dst-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-other-rate-action-list-name and dst-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-type-action

Description 'drop': Reject this ICMP type; 'blacklist-src': Blacklist-src this ICMP type; 'ignore': Ignore this ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-action and icmp-type-action-list-name are mutually exclusive

icmp-type-action-list-name

Description Configure action-list to take for this ICMP type

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-action-list-name and icmp-type-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

src-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-other-rate-action and src-code-other-rate-action-list-name are mutually exclusive

src-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-other-rate-action-list-name and src-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v4-dst-code-cfg

Type: List

v4-dst-rate-cfg

Description: v4-dst-rate-cfg is a **JSON Block**. Please see below for *v4-dst-rate-cfg*

Type: Object

v4-src-code-cfg

Type: List

v4-src-rate-cfg

Description: v4-src-rate-cfg is a **JSON Block**. Please see below for *v4-src-rate-cfg*

Type: Object

v4-src-rate-cfg

Specification	Value
Type	*object*

src-type-rate

Description Specify the whole src rate for this type

Type: number

Range: 1-16000000

src-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-rate-action and src-type-rate-action-list-name are mutually exclusive

src-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-rate-action-list-name and src-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

v4-dst-code-cfg

Specification	Value
Type	*list*
Block object keys	

dst-code-number

Description Specify the ICMP code for this dst rate

Type: number

Range: 0-255

dst-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

dst-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-rate-action and dst-code-rate-action-list-name are mutually exclusive

dst-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-rate-action-list-name and dst-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

v4-src-code-cfg

Specification	Value
Type	*list*
Block object keys	

src-code-number

Description Specify the ICMP code for this src rate

Type: number

Range: 0-255

src-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

src-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-rate-action and src-code-rate-action-list-name are mutually exclusive

src-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-rate-action-list-name and src-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

v4-dst-rate-cfg

Specification	Value
Type	*object*

dst-type-rate

Description Specify the whole dst rate for this type

Type: number

Range: 1-16000000

dst-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-rate-action and dst-type-rate-action-list-name are mutually exclusive

dst-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-rate-action-list-name and dst-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

2.33.568 ddos zone-template icmp-v4 type-other

Specify other type

type-other Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	type-other
Element URI	/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type-other
Element Attributes	type-other_attributes
Partition Visibility	shared
Schema	`type-other schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type-other

type-other attributes

```
POST /axapi/v3/ddos/zone-template/icmp-v4/a/type-other
Payload:
{
    "type-other": {
        "icmp-type-other-action-list-name": "a"
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type-other

type-other attributes

```
GET /axapi/v3/ddos/zone-template/icmp-v4/a/type-other
Reponse:
{
    "type-other": {
        "icmp-type-other-action-list-name": "a",
        "uuid": "87ad847c-088e-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-template/icmp-v4/a/type-other"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type-other

type-other attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type-other

type-other attributes

```
PUT /axapi/v3/ddos/zone-template/icmp-v4/a/type-other
Payload:
{
    "type-other": {
        "icmp-type-other-action-list-name": "abcd"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-template/icmp-v4/{icmp-tmpl-name}/type-other

type-other attributes

```
DELETE /axapi/v3/ddos/zone-template/icmp-v4/a/type-other
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

type-other attributes

dst

Description: dst is a **JSON Block**. Please see below for *dst*

Type: Object

icmp-type-other-action

Description 'drop': Reject wildcard ICMP type; 'blacklist-src': Blacklist-src wildcard ICMP type; 'ignore': Ignore wildcard ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-other-action and icmp-type-other-action-list-name are mutually exclusive

icmp-type-other-action-list-name

Description Configure action-list to take for wildcard ICMP match

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-other-action-list-name and icmp-type-other-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src

Description: src is a **JSON Block**. Please see below for *src*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src

Specification	Value
Type	*object*

src-type-other-rate

Description Specify the whole src rate for wildcard ICMP type

Type: number

Range: 1-16000000

src-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-other-rate-action and src-type-other-rate-action-list-name are mutually exclusive

src-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-other-rate-action-list-name and src-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dst

Specification	Value
Type	*object*

dst-type-other-rate

Description Specify the whole dst rate for wildcard ICMP type

Type: number

Range: 1-16000000

dst-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-other-rate-action and dst-type-other-rate-action-list-name are mutually exclusive

dst-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-other-rate-action-list-name and dst-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

2.33.569 ddos zone-template icmp-v6

ICMPv6 template Configuration

icmp-v6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*icmp-tmpl-name*
Collection Name	*icmp-v6-list*
Collection URI	/axapi/v3/ddos/zone-template/icmp-v6
Element Name	icmp-v6
Element URI	/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}
Element Attributes	icmp-v6_attributes
Partition Visibility	shared
Schema	`icmp-v6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/icmp-v6

icmp-v6 attributes

```
POST /axapi/v3/ddos/zone-template/icmp-v6/
Payload:
{
    "icmp-v6": {
        "icmp-tmpl-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-template/icmp-v6

icmp-v6 attributes

Get Object

GET

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}

icmp-v6 attributes

```
GET /axapi/v3/ddos/zone-template/icmp-v6/a
Reponse:
{
    "icmp-v6": {
        "icmp-tmpl-name": "a",
        "filter-match-type": "default",
        "uuid": "adb65e32-088e-11f0-b674-001fa04507c0",
        "user-tag": "a",
```

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```
        "a10-url": "/axapi/v3/ddos/zone-template/icmp-v6/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/zone-template/icmp-v6

icmp-v6-list

Modify Object

POST

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}

icmp-v6 attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}

icmp-v6 attributes

```
PUT /axapi/v3/ddos/zone-template/icmp-v6/a
Payload:
{
    "icmp-v6": {
        "icmp-tmpl-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-template/icmp-v6

icmp-v6-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}

icmp-v6 attributes

```
DELETE /axapi/v3/ddos/zone-template/icmp-v6/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
```

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```
        "msg": "Success"
    }
}
```

icmp-v6-list

icmp-v6-list is **JSON List** of *icmp-v6 attributes*

icmp-v6-list : [

{ *icmp-v6 attributes* },

{ *icmp-v6 attributes* },

...

]

icmp-v6 attributes

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/filter/{icmp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

icmp-tmpl-name

Description DDOS ICMPv6 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type/{type-number}*

type-other

Description: type-other is a **JSON Block**. Please see below for *type-other*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type-other*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

type-list

Specification	Value
Type	*list*
Block object keys	

dst-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

dst-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-other-rate-action and dst-code-other-rate-action-list-name are mutually exclusive

dst-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-other-rate-action-list-name and dst-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-type-action

Description 'drop': Reject this ICMP type; 'blacklist-src': Blacklist-src this ICMP type; 'ignore': Ignore this ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-action and icmp-type-action-list-name are mutually exclusive

icmp-type-action-list-name

Description Configure action-list to take for this ICMP type

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-action-list-name and icmp-type-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

src-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-other-rate-action and src-code-other-rate-action-list-name are mutually exclusive

src-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-other-rate-action-list-name and src-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v6-dst-code-cfg

Type: List

v6-dst-rate-cfg

Description: v6-dst-rate-cfg is a **JSON Block**. Please see below for *type-list_v6-dst-rate-cfg*

Type: Object

v6-src-code-cfg

Type: List

v6-src-rate-cfg

Description: v6-src-rate-cfg is a **JSON Block**. Please see below for *type-list_v6-src-rate-cfg*

Type: Object

type-list_v6-dst-rate-cfg

Specification	Value
Type	*object*

dst-type-rate

Description Specify the whole dst rate for this type

Type: number

Range: 1-16000000

dst-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-rate-action and dst-type-rate-action-list-name are mutually exclusive

dst-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-rate-action-list-name and dst-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-list_v6-src-rate-cfg

Specification	Value
Type	*object*

src-type-rate

Description Specify the whole src rate for this type

Type: number

Range: 1-16000000

src-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-rate-action and src-type-rate-action-list-name are mutually exclusive

src-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-rate-action-list-name and src-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-list_v6-src-code-cfg

Specification	Value
Type	*list*
Block object keys	

src-code-number

Description Specify the ICMP code for this src rate

Type: number

Range: 0-255

src-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

src-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-rate-action and src-code-rate-action-list-name are mutually exclusive

src-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-rate-action-list-name and src-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-list_v6-dst-code-cfg

Specification	Value
Type	*list*
Block object keys	

dst-code-number

Description Specify the ICMP code for this dst rate

Type: number

Range: 0-255

dst-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

dst-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-rate-action and dst-code-rate-action-list-name are mutually exclusive

dst-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-rate-action-list-name and dst-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-other

Specification	Value
Type	*object*

dst

Description: dst is a **JSON Block**. Please see below for *type-other_dst*

Type: Object

icmp-type-other-action

Description 'drop': Reject wildcard ICMP type; 'blacklist-src': Blacklist-src wildcard ICMP type; 'ignore': Ignore wildcard ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-other-action and icmp-type-other-action-list-name are mutually exclusive

icmp-type-other-action-list-name

Description Configure action-list to take for wildcard ICMP match

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-other-action-list-name and icmp-type-other-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src

Description: src is a **JSON Block**. Please see below for *type-other_src*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

type-other_src

Specification	Value
Type	*object*

src-type-other-rate

Description Specify the whole src rate for wildcard ICMP type

Type: number

Range: 1-16000000

src-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-other-rate-action and src-type-other-rate-action-list-name are mutually exclusive

src-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-other-rate-action-list-name and src-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-other_dst

Specification	Value
Type	*object*

dst-type-other-rate

Description Specify the whole dst rate for wildcard ICMP type

Type: number

Range: 1-16000000

dst-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-other-rate-action and dst-type-other-rate-action-list-name are mutually exclusive

dst-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-other-rate-action-list-name and dst-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description filter using Berkeley packet filter syntax

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

icmp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, blacklist-src

Default: drop

Mutual Exclusion: icmp-filter-action and icmp-filter-action-list-name are mutually exclusive

icmp-filter-action-list-name

Description list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-filter-action-list-name and icmp-filter-action are mutually exclusive

icmp-filter-inverse-match

Description Inverse the result of matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

icmp-filter-seq

Description sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.570 ddos zone-template icmp-v6 filter

ICMP Filter Configuration

filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*icmp-filter-name*
Collection Name	*filter-list*
Collection URI	/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/filter
Element Name	filter
Element URI	/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/filter/{icmp-filter-name}
Element Attributes	filter_attributes
Partition Visibility	shared
Schema	`filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/filter

filter attributes

Create List

POST

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/filter

filter attributes

Get Object

GET

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/filter/{icmp-filter-name}

filter attributes

Get List

GET

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/filter

filter-list

Modify Object

POST

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/filter/{icmp-filter-name}

filter attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/filter/{icmp-filter-name}

filter attributes

Replace List

PUT

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/filter

filter-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/filter/{icmp-filter-name}

filter attributes

filter-list

filter-list is **JSON List** of *filter attributes*

filter-list : [

{ *filter attributes* },

{ *filter attributes* },

...

]

filter attributes

byte-offset-filter

Description filter using Berkeley packet filter syntax

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

icmp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, blacklist-src

Default: drop

Mutual Exclusion: icmp-filter-action and icmp-filter-action-list-name are mutually exclusive

icmp-filter-action-list-name

Description list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-filter-action-list-name and icmp-filter-action are mutually exclusive

icmp-filter-inverse-match

Description Inverse the result of matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

icmp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

icmp-filter-seq

Description sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.571 ddos zone-template icmp-v6 type

Specify ICMP type

type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*type-number*
Collection Name	*type-list*
Collection URI	/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type
Element Name	type
Element URI	/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type/{type-number}
Element Attributes	type_attributes
Partition Visibility	shared
Schema	`type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type

type attributes

Create List

POST

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type

type attributes

Get Object

GET

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type/{type-number}

type attributes

Get List

GET

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type

type-list

Modify Object

POST

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type/{type-number}

type attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type/{type-number}

type attributes

Replace List

PUT

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type

type-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type/{type-number}

type attributes

type-list

type-list is **JSON List** of *type attributes*

type-list : [

{ *type attributes* },

{ *type attributes* },

...

]

type attributes

dst-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

dst-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-other-rate-action and dst-code-other-rate-action-list-name are mutually exclusive

dst-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-other-rate-action-list-name and dst-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

icmp-type-action

Description 'drop': Reject this ICMP type; 'blacklist-src': Blacklist-src this ICMP type; 'ignore': Ignore this ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-action and icmp-type-action-list-name are mutually exclusive

icmp-type-action-list-name

Description Configure action-list to take for this ICMP type

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-action-list-name and icmp-type-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src-code-other-rate

Description Specify the rate with other code

Type: number

Range: 1-16000000

src-code-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-other-rate-action and src-code-other-rate-action-list-name are mutually exclusive

src-code-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-other-rate-action-list-name and src-code-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

type-number

Description Specify ICMP type number

Type: number

Range: 0-255

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

v6-dst-code-cfg

Type: List

v6-dst-rate-cfg

Description: v6-dst-rate-cfg is a **JSON Block**. Please see below for *v6-dst-rate-cfg*

Type: Object

v6-src-code-cfg

Type: List

v6-src-rate-cfg

Description: v6-src-rate-cfg is a **JSON Block**. Please see below for *v6-src-rate-cfg*

Type: Object

v6-dst-rate-cfg

Specification	Value
Type	*object*

dst-type-rate

Description Specify the whole dst rate for this type

Type: number

Range: 1-16000000

dst-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-rate-action and dst-type-rate-action-list-name are mutually exclusive

dst-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-rate-action-list-name and dst-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

v6-src-rate-cfg

Specification	Value
Type	*object*

src-type-rate

Description Specify the whole src rate for this type

Type: number

Range: 1-16000000

src-type-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-rate-action and src-type-rate-action-list-name are mutually exclusive

src-type-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-rate-action-list-name and src-type-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

v6-src-code-cfg

Specification	Value
Type	*list*
Block object keys	

src-code-number

Description Specify the ICMP code for this src rate

Type: number

Range: 0-255

src-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

src-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-code-rate-action and src-code-rate-action-list-name are mutually exclusive

src-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-code-rate-action-list-name and src-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

v6-dst-code-cfg

Specification	Value
Type	*list*
Block object keys	

dst-code-number

Description Specify the ICMP code for this dst rate

Type: number

Range: 0-255

dst-code-rate

Description Specify the rate with the code

Type: number

Range: 1-16000000

dst-code-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-code-rate-action and dst-code-rate-action-list-name are mutually exclusive

dst-code-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-code-rate-action-list-name and dst-code-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

2.33.572 ddos zone-template icmp-v6 type-other

Specify other type

type-other Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	type-other
Element URI	/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type-other
Element Attributes	type-other_attributes
Partition Visibility	shared
Schema	`type-other schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type-other

type-other attributes

```
POST /axapi/v3/ddos/zone-template/icmp-v6/a/type-other
Payload:
{
    "type-other": {
        "icmp-type-other-action-list-name": "a"
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type-other

type-other attributes

```
GET /axapi/v3/ddos/zone-template/icmp-v6/a/type-other
Reponse:
{
    "type-other": {
        "icmp-type-other-action-list-name": "a",
        "uuid": "396f481c-088f-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-template/icmp-v6/a/type-other"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type-other

type-other attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type-other

type-other attributes

```
PUT /axapi/v3/ddos/zone-template/icmp-v6/a/type-other
Payload:
{
    "type-other": {
        "icmp-type-other-action-list-name": "abcd"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-template/icmp-v6/{icmp-tmpl-name}/type-other

type-other attributes

```
DELETE /axapi/v3/ddos/zone-template/icmp-v6/a/type-other
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

type-other attributes

dst

Description: dst is a **JSON Block**. Please see below for *dst*

Type: Object

icmp-type-other-action

Description 'drop': Reject wildcard ICMP type; 'blacklist-src': Blacklist-src wildcard ICMP type; 'ignore': Ignore wildcard ICMP type;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: icmp-type-other-action and icmp-type-other-action-list-name are mutually exclusive

icmp-type-other-action-list-name

Description Configure action-list to take for wildcard ICMP match

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: icmp-type-other-action-list-name and icmp-type-other-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src

Description: src is a **JSON Block**. Please see below for *src*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src

Specification	Value
Type	*object*

src-type-other-rate

Description Specify the whole src rate for wildcard ICMP type

Type: number

Range: 1-16000000

src-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: src-type-other-rate-action and src-type-other-rate-action-list-name are mutually exclusive

src-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-type-other-rate-action-list-name and src-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dst

Specification	Value
Type	*object*

dst-type-other-rate

Description Specify the whole dst rate for wildcard ICMP type

Type: number

Range: 1-16000000

dst-type-other-rate-action

Description 'drop': Drop packets for rate exceed (Default); 'blacklist-src': Blacklist-src for rate exceed; 'ignore': Do nothing for rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: dst-type-other-rate-action and dst-type-other-rate-action-list-name are mutually exclusive

dst-type-other-rate-action-list-name

Description Configure action-list to take for rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-type-other-rate-action-list-name and dst-type-other-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

2.33.573 ddos zone-template ip-proto

Ip-proto template configuration

ip-proto Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*ip-proto-list*
Collection URI	/axapi/v3/ddos/zone-template/ip-proto
Element Name	ip-proto
Element URI	/axapi/v3/ddos/zone-template/ip-proto/{name}
Element Attributes	ip-proto_attributes
Partition Visibility	shared
Schema	`ip-proto schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/ip-proto

ip-proto attributes

```
POST /axapi/v3/ddos/zone-template/ip-proto/
Payload:
{
    "ip-proto": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-template/ip-proto

ip-proto attributes

Get Object

GET

/axapi/v3/ddos/zone-template/ip-proto/{name}

ip-proto attributes

```
GET /axapi/v3/ddos/zone-template/ip-proto/a
Reponse:
{
    "ip-proto": {
        "name": "a",
        "filter-match-type": "default",
        "uuid": "5f44230a-088f-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/zone-template/ip-proto/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/zone-template/ip-proto

ip-proto-list

Modify Object

POST

/axapi/v3/ddos/zone-template/ip-proto/{name}

ip-proto attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/ip-proto/{name}

ip-proto attributes

```
PUT /axapi/v3/ddos/zone-template/ip-proto/a
Payload:
{
    "ip-proto": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-template/ip-proto

ip-proto-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/ip-proto/{name}

ip-proto attributes

```
DELETE /axapi/v3/ddos/zone-template/ip-proto/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ip-proto-list

ip-proto-list is **JSON List** of *ip-proto attributes*

ip-proto-list : [

{ *ip-proto attributes* },

{ *ip-proto attributes* },

...

]

ip-proto attributes

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/ip-proto/{name}/filter/{other-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

name

Description DDOS Ip-proto Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Mutual Exclusion: other-filter-action and other-filter-action-list-name are mutually exclusive

other-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: other-filter-action-list-name and other-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

other-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

other-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

other-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.574 ddos zone-template ip-proto filter

Ip-proto Filter Configuration

filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*other-filter-name*
Collection Name	*filter-list*
Collection URI	/axapi/v3/ddos/zone-template/ip-proto/{name}/filter
Element Name	filter
Element URI	/axapi/v3/ddos/zone-template/ip-proto/{name}/filter/{other-filter-name}
Element Attributes	filter_attributes
Partition Visibility	shared
Schema	`filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/ip-proto/{name}/filter

filter attributes

Create List

POST

/axapi/v3/ddos/zone-template/ip-proto/{name}/filter

filter attributes

Get Object

GET

/axapi/v3/ddos/zone-template/ip-proto/{name}/filter/{other-filter-name}

filter attributes

Get List

GET

/axapi/v3/ddos/zone-template/ip-proto/{name}/filter

filter-list

Modify Object

POST

/axapi/v3/ddos/zone-template/ip-proto/{name}/filter/{other-filter-name}

filter attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/ip-proto/{name}/filter/{other-filter-name}

filter attributes

Replace List

PUT

/axapi/v3/ddos/zone-template/ip-proto/{name}/filter

filter-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/ip-proto/{name}/filter/{other-filter-name}

filter attributes

filter-list

filter-list is **JSON List** of *filter attributes*

```
filter-list : [
        { filter attributes },
        { filter attributes },
        ...
    ]
```

filter attributes

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Mutual Exclusion: other-filter-action and other-filter-action-list-name are mutually exclusive

other-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: other-filter-action-list-name and other-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

other-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

other-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

other-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

other-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.575 ddos zone-template logging

Logging template Configuration

logging Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*logging-tmpl-name*
Collection Name	*logging-list*
Collection URI	/axapi/v3/ddos/zone-template/logging
Element Name	logging
Element URI	/axapi/v3/ddos/zone-template/logging/{logging-tmpl-name}
Element Attributes	logging_attributes
Partition Visibility	shared
Schema	`logging schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/logging

logging attributes

```
POST /axapi/v3/ddos/zone-template/logging/
Payload:
{
    "logging": {
        "logging-tmpl-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-template/logging

logging attributes

Get Object

GET

/axapi/v3/ddos/zone-template/logging/{logging-tmpl-name}

logging attributes

```
GET /axapi/v3/ddos/zone-template/logging/a
Reponse:
{
    "logging": {
        "logging-tmpl-name": "a",
        "log-format-cef": 0,
        "use-obj-name": 0,
        "enable-action-logging": 0,
        "uuid": "96dd9058-088f-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/zone-template/logging/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/zone-template/logging

logging-list

Modify Object

POST

/axapi/v3/ddos/zone-template/logging/{logging-tmpl-name}

logging attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/logging/{logging-tmpl-name}

logging attributes

```
PUT /axapi/v3/ddos/zone-template/logging/a
Payload:
{
    "logging": {
        "logging-tmpl-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-template/logging

logging-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/logging/{logging-tmpl-name}

logging attributes

```
DELETE /axapi/v3/ddos/zone-template/logging/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

logging-list

logging-list is **JSON List** of *logging attributes*

logging-list : [

{ *logging attributes* },

{ *logging attributes* },

...

]

logging attributes

enable-action-logging

Description Log action taken

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-format-cef

Description Log in CEF format

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-format-custom

Description Customize log format

Type: string

Format: string-rlx

Maximum Length: 512 characters

Maximum Length: 1 characters

logging-tmpl-name

Description DDOS Logging Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Default: default

use-obj-name

Description Show obj name instead of ip in the log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.576 ddos zone-template quic

QUIC template Configuration

quic Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*quic-tmpl-name*
Collection Name	*quic-list*
Collection URI	/axapi/v3/ddos/zone-template/quic
Element Name	quic
Element URI	/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}
Element Attributes	quic_attributes
Partition Visibility	shared
Schema	`quic schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/quic

quic attributes

Create List

POST

/axapi/v3/ddos/zone-template/quic

quic attributes

Get Object

GET

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}

quic attributes

Get List

GET

/axapi/v3/ddos/zone-template/quic

quic-list

Modify Object

POST

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}

quic attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}

quic attributes

Replace List

PUT

/axapi/v3/ddos/zone-template/quic

quic-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}

quic attributes

quic-list

quic-list is **JSON List** of *quic attributes*

```
quic-list : [
        { quic attributes },
        { quic attributes },
        ...
    ]
```

quic attributes

action-on-initial

Description: action-on-initial is a **JSON Block**. Please see below for *action-on-initial*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/action-on-initial*

create-conn-on-initial-only

Description Create connection on QUIC Initial Packets Only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fixed-bit-check-disable

Description Disable fixed-bit malform check

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pkt-rate-cfg

Description: pkt-rate-cfg is a **JSON Block**. Please see below for *pkt-rate-cfg*

Type: Object

quic-tmpl-name

Description DDOS QUIC Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

version-supported-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}*

version-supported-list

Specification	Value
Type	*list*
Block object keys	

malformed-check

Description: malformed-check is a **JSON Block**. Please see below for *version-supported-list_malformed-check*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}/malformed-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

version-action

Description 'drop': Drop packets; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: version-action and version-action-list-name are mutually exclusive

version-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: version-action-list-name and version-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

version-end

Description Version supported range end

Type: string

Format: time

Maximum Length: 4294967295 characters

Maximum Length: 1 characters

version-start

Description Configure versions supported

Type: string

Format: time

Maximum Length: 4294967295 characters

Maximum Length: 1 characters

version-supported-list_malformed-check

Specification	Value
Type	*object*

malformed-check-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: malformed-check-action and malformed-check-action-list-name are mutually exclusive

malformed-check-action-list-name

Description Configure action-list to take. Overwrites version action

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: malformed-check-action-list-name and malformed-check-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

malformed-enable

Description 'enable': Enable malformed check;

Type: string

Supported Values: enable

Default: enable

max-destination-cid-length

Description Set the maximum destination CID length

Type: number

Range: 0-255

Default: 255

max-source-cid-length

Description Set the maximum source CID length

Type: number

Range: 0-255

Default: 255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pkt-rate-cfg

Specification	Value
Type	*object*

per

Description 'aead-tag': AEAD Tag; 'dcid': Destination Connection ID;

Type: string

Supported Values: aead-tag, dcid

quic-pkt-rate

Description Limiting rate (Range: 5-16000000)

Type: number

Range: 5-16000000

quic-pkt-rate-limit

Description QUIC Packet Rate Limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-on-initial

Specification	Value
Type	*object*

retry-token-authentication-dynamic

Description 'cid-hash': Dynamic retry token based on Destination and Source CID;

Type: string

Supported Values: cid-hash

Mutual Exclusion: retry-token-authentication-dynamic and retry-token-authentication-static are mutually exclusive

retry-token-authentication-static

Description Static retry token (Maximum of 4 bytes)

Type: string

Format: time

Maximum Length: 4294967295 characters

Maximum Length: 1 characters

Mutual Exclusion: retry-token-authentication-static and retry-token-authentication-dynamic are mutually exclusive

retry-unauthenticated-initial-decrypt

Description Decrypt incoming initial packets for unauthenticated clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

scid-length

Description Set Max SCID length for SCID generation

Type: number

Range: 8-20

Default: 20

unauth-short-hdr-action

Description 'drop': Drop short header packet;

Type: string

Supported Values: drop

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.577 ddos zone-template quic action-on-initial

Configure action on initial

action-on-initial Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	action-on-initial
Element URI	/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/action-on-initial
Element Attributes	action-on-initial_attributes
Partition Visibility	shared
Schema	`action-on-initial schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/action-on-initial

action-on-initial attributes

```
POST /axapi/v3/ddos/zone-template/quic/a/action-on-initial
Payload:
{
    "action-on-initial": {
        "retry-token-authentication-static": 100,
        "scid-length": 8
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/action-on-initial

action-on-initial attributes

```
GET /axapi/v3/ddos/zone-template/quic/a/action-on-initial
Reponse:
{
    "action-on-initial": {
        "retry-token-authentication-static": 256,
        "scid-length": 8,
        "retry-unauthenticated-initial-decrypt": 0,
        "uuid": "b3b401e4-088f-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-template/quic/a/action-on-initial"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/action-on-initial

action-on-initial attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/action-on-initial

action-on-initial attributes

Delete Object

DELETE

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/action-on-initial

action-on-initial attributes

action-on-initial attributes

retry-token-authentication-dynamic

Description 'cid-hash': Dynamic retry token based on Destination and Source CID;

Type: string

Supported Values: cid-hash

Mutual Exclusion: retry-token-authentication-dynamic and retry-token-authentication-static are mutually exclusive

retry-token-authentication-static

Description Static retry token (Maximum of 4 bytes)

Type: string

Format: time

Maximum Length: 4294967295 characters

Maximum Length: 1 characters

Mutual Exclusion: retry-token-authentication-static and retry-token-authentication-dynamic are mutually exclusive

retry-unauthenticated-initial-decrypt

Description Decrypt incoming initial packets for unauthenticated clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

scid-length

Description Set Max SCID length for SCID generation

Type: number

Range: 8-20

Default: 20

unauth-short-hdr-action

Description 'drop': Drop short header packet;

Type: string

Supported Values: drop

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.578 ddos zone-template quic version-supported

Configure version support options

version-supported Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*version-start, version-end*
Collection Name	*version-supported-list*
Collection URI	/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported
Element Name	version-supported
Element URI	/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}
Element Attributes	version-supported_attributes
Partition Visibility	shared
Schema	`version-supported schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported

version-supported attributes

Create List

POST

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported

version-supported attributes

Get Object

GET

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}

version-supported attributes

Get List

GET

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported

version-supported-list

Modify Object

POST

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}

version-supported attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}

version-supported attributes

Replace List

PUT

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported

version-supported-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}

version-supported attributes

version-supported-list

version-supported-list is **JSON List** of *version-supported attributes*

```
version-supported-list : [
        { version-supported attributes },
        { version-supported attributes },
        ...
    ]
```

version-supported attributes

malformed-check

Description: malformed-check is a **JSON Block**. Please see below for *malformed-check*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}/malformed-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

version-action

Description 'drop': Drop packets; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: version-action and version-action-list-name are mutually exclusive

version-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: version-action-list-name and version-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

version-end

Description Version supported range end

Type: string

Format: time

Maximum Length: 4294967295 characters

Maximum Length: 1 characters

version-start

Description Configure versions supported

Type: string

Format: time

Maximum Length: 4294967295 characters

Maximum Length: 1 characters

malformed-check

Specification	Value
Type	*object*

malformed-check-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: malformed-check-action and malformed-check-action-list-name are mutually exclusive

malformed-check-action-list-name

Description Configure action-list to take. Overwrites version action

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: malformed-check-action-list-name and malformed-check-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

malformed-enable

Description 'enable': Enable malformed check;

Type: string

Supported Values: enable

Default: enable

max-destination-cid-length

Description Set the maximum destination CID length

Type: number

Range: 0-255

Default: 255

max-source-cid-length

Description Set the maximum source CID length

Type: number

Range: 0-255

Default: 255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.579 ddos zone-template quic version-supported malformed-check

Configure and enable malformed packet check

malformed-check Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	malformed-check
Element URI	/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}/malformed-check
Element Attributes	malformed-check_attributes
Partition Visibility	shared
Schema	`malformed-check schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}/malformed-check

malformed-check attributes

Get Object

GET

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}/malformed-check

malformed-check attributes

Modify Object

POST

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}/malformed-check

malformed-check attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}/malformed-check

malformed-check attributes

Delete Object

DELETE

/axapi/v3/ddos/zone-template/quic/{quic-tmpl-name}/version-supported/{version-start}+{version-end}/malformed-check

malformed-check attributes

malformed-check attributes

malformed-check-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: malformed-check-action and malformed-check-action-list-name are mutually exclusive

malformed-check-action-list-name

Description Configure action-list to take. Overwrites version action

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: malformed-check-action-list-name and malformed-check-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

malformed-enable

Description 'enable': Enable malformed check;

Type: string

Supported Values: enable

Default: enable

max-destination-cid-length

Description Set the maximum destination CID length

Type: number

Range: 0-255

Default: 255

max-source-cid-length

Description Set the maximum source CID length

Type: number

Range: 0-255

Default: 255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.580 ddos zone-template sip

SIP template Configuration

sip Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*sip-tmpl-name*
Collection Name	*sip-list*
Collection URI	/axapi/v3/ddos/zone-template/sip
Element Name	sip
Element URI	/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}
Element Attributes	sip_attributes
Partition Visibility	shared
Schema	`sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/sip

sip attributes

```
POST /axapi/v3/ddos/zone-template/sip/
Payload:
{
```

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```
    "sip": {
        "sip-tmpl-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-template/sip

sip attributes

Get Object

GET

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}

sip attributes

```
GET /axapi/v3/ddos/zone-template/sip/a
Reponse:
{
    "sip": {
        "sip-tmpl-name": "a",
        "src": {
            "sip-request-rate-limit": {
                "src-sip-rate-action": "drop",
                "method": {
                    "invite-cfg": {
                        "INVITE": 0
                    },
                    "register-cfg": {
                        "REGISTER": 0
                    },
                    "options-cfg": {
                        "OPTIONS": 0
                    },
                    "bye-cfg": {
                        "BYE": 0
                    },
                    "subscribe-cfg": {
                        "SUBSCRIBE": 0
                    },
                    "notify-cfg": {
                        "NOTIFY": 0
                    },
                    "refer-cfg": {
                        "REFER": 0
                    },
                    "message-cfg": {
                        "MESSAGE": 0
                    },
```

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```
                    "update-cfg": {
                        "UPDATE": 0
                    }
                }
            }
        },
        "dst": {
            "sip-request-rate-limit": {
                "dst-sip-rate-action": "drop",
                "method": {
                    "invite-cfg": {
                        "INVITE": 0
                    },
                    "register-cfg": {
                        "REGISTER": 0
                    },
                    "options-cfg": {
                        "OPTIONS": 0
                    },
                    "bye-cfg": {
                        "BYE": 0
                    },
                    "subscribe-cfg": {
                        "SUBSCRIBE": 0
                    },
                    "notify-cfg": {
                        "NOTIFY": 0
                    },
                    "refer-cfg": {
                        "REFER": 0
                    },
                    "message-cfg": {
                        "MESSAGE": 0
                    },
                    "update-cfg": {
                        "UPDATE": 0
                    }
                }
            }
        },
        "uuid": "d2556f52-088f-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/zone-template/sip/a"
    }
}
```


Get List

GET

/axapi/v3/ddos/zone-template/sip

sip-list

Modify Object

POST

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}

sip attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}

sip attributes

```
PUT /axapi/v3/ddos/zone-template/sip/a
Payload:
{
    "sip": {
        "sip-tmpl-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-template/sip

sip-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}

sip attributes

```
DELETE /axapi/v3/ddos/zone-template/sip/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

sip-list

sip-list is **JSON List** of *sip attributes*

sip-list : [

{ *sip attributes* },

{ *sip attributes* },

...

]

sip attributes

dst

Description: dst is a **JSON Block**. Please see below for *dst*

Type: Object

filter-header-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/filter-header/{sip-filter-name}*

idle-timeout

Description: idle-timeout is a **JSON Block**. Please see below for *idle-timeout*

Type: Object

malformed-sip

Description: malformed-sip is a **JSON Block**. Please see below for *malformed-sip*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/malformed-sip*

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *multi-pu-threshold-distribution*

Type: Object

sip-tmpl-name

Description DDOS SIP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

src

Description: src is a **JSON Block**. Please see below for *src*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

src

Specification	Value
Type	*object*

sip-request-rate-limit

Description: sip-request-rate-limit is a **JSON Block**. Please see below for *src_sip-request-rate-limit*

Type: Object

src_sip-request-rate-limit

Specification	Value
Type	*object*

method

Description: method is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method*

Type: Object

src-sip-rate-action

Description 'drop': Drop packets(Default); 'ignore': Take no action; 'reset': Reset (sip-tcp) client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: src-sip-rate-action and src-sip-rate-action-list-name are mutually exclusive

src-sip-rate-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-sip-rate-action-list-name and src-sip-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src_sip-request-rate-limit_method

Specification	Value
Type	*object*

bye-cfg

Description: bye-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_bye-cfg*

Type: Object

invite-cfg

Description: invite-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_invite-cfg*

Type: Object

message-cfg

Description: message-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_message-cfg*

Type: Object

notify-cfg

Description: notify-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_notify-cfg*

Type: Object

options-cfg

Description: options-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_options-cfg*

Type: Object

refer-cfg

Description: refer-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_refer-cfg*

Type: Object

register-cfg

Description: register-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_register-cfg*

Type: Object

subscribe-cfg

Description: subscribe-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_subscribe-cfg*

Type: Object

update-cfg

Description: update-cfg is a **JSON Block**. Please see below for *src_sip-request-rate-limit_method_update-cfg*

Type: Object

src_sip-request-rate-limit_method_options-cfg

Specification	Value
Type	*object*

OPTIONS

Description OPTIONS method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-options-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_refer-cfg

Specification	Value
Type	*object*

REFER

Description REFER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-refer-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_bye-cfg

Specification	Value
Type	*object*

BYE

Description BYE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-bye-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_subscribe-cfg

Specification	Value
Type	*object*

SUBSCRIBE

Description SUBSCRIBE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-subscribe-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_register-cfg

Specification	Value
Type	*object*

REGISTER

Description REGISTER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-register-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_invite-cfg

Specification	Value
Type	*object*

INVITE

Description INVITE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-invite-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_message-cfg

Specification	Value
Type	*object*

MESSAGE

Description MESSAGE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-message-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_update-cfg

Specification	Value
Type	*object*

UPDATE

Description UPDATE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-update-rate

Description

Type: number

Range: 1-16000000

src_sip-request-rate-limit_method_notify-cfg

Specification	Value
Type	*object*

NOTIFY

Description NOTIFY method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

src-sip-notify-rate

Description

Type: number

Range: 1-16000000

dst

Specification	Value
Type	*object*

sip-request-rate-limit

Description: sip-request-rate-limit is a **JSON Block**. Please see below for *dst_sip-request-rate-limit*

Type: Object

dst_sip-request-rate-limit

Specification	Value
Type	*object*

dst-sip-rate-action

Description 'drop': Drop packets(Default); 'ignore': Take no action; 'reset': Reset (sip-tcp) client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, ignore, reset, blacklist-src

Default: drop

Mutual Exclusion: dst-sip-rate-action and dst-sip-rate-action-list-name are mutually exclusive

dst-sip-rate-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-sip-rate-action-list-name and dst-sip-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

method

Description: method is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method*

Type: Object

dst_sip-request-rate-limit_method

Specification	Value
Type	*object*

bye-cfg

Description: bye-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_bye-cfg*

Type: Object

invite-cfg

Description: invite-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_invite-cfg*

Type: Object

message-cfg

Description: message-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_message-cfg*

Type: Object

notify-cfg

Description: notify-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_notify-cfg*

Type: Object

options-cfg

Description: options-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_options-cfg*

Type: Object

refer-cfg

Description: refer-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_refer-cfg*

Type: Object

register-cfg

Description: register-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_register-cfg*

Type: Object

subscribe-cfg

Description: subscribe-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_subscribe-cfg*

Type: Object

update-cfg

Description: update-cfg is a **JSON Block**. Please see below for *dst_sip-request-rate-limit_method_update-cfg*

Type: Object

dst_sip-request-rate-limit_method_options-cfg

Specification	Value
Type	*object*

OPTIONS

Description OPTIONS method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-options-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_refer-cfg

Specification	Value
Type	*object*

REFER

Description REFER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-refer-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_bye-cfg

Specification	Value
Type	*object*

BYE

Description BYE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-bye-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_subscribe-cfg

Specification	Value
Type	*object*

SUBSCRIBE

Description SUBSCRIBE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-subscribe-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_register-cfg

Specification	Value
Type	*object*

REGISTER

Description REGISTER method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-register-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_invite-cfg

Specification	Value
Type	*object*

INVITE

Description INVITE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-invite-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_message-cfg

Specification	Value
Type	*object*

MESSAGE

Description MESSAGE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-message-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_update-cfg

Specification	Value
Type	*object*

UPDATE

Description UPDATE method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-update-rate

Description

Type: number

Range: 1-16000000

dst_sip-request-rate-limit_method_notify-cfg

Specification	Value
Type	*object*

NOTIFY

Description NOTIFY method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst-sip-notify-rate

Description

Type: number

Range: 1-16000000

idle-timeout

Specification	Value
Type	*object*

idle-timeout-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset (sip-tcp) client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: idle-timeout-action and idle-timeout-action-list-name are mutually exclusive

idle-timeout-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: idle-timeout-action-list-name and idle-timeout-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

idle-timeout-value

Description Set the the idle timeout value for SIP-TCP connections

Type: number

Range: 1-63

ignore-zero-payload

Description Don't reset idle timer on packets with zero payload length from clients

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

malformed-sip

Specification	Value
Type	*object*

malformed-sip-action

Description 'drop': Drop packets (Default); 'reset': Reset (sip-tcp) client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: malformed-sip-action and malformed-sip-action-list-name are mutually exclusive

malformed-sip-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: malformed-sip-action-list-name and malformed-sip-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

malformed-sip-call-id-max-length

Description Set the maximum call-id length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-check

Description 'enable-check': Enable malformed SIP parameters;

Type: string

Supported Values: enable-check

malformed-sip-max-header-name-length

Description Set the maximum header name length. Default value is 63

Type: number

Range: 1-63

Default: 63

malformed-sip-max-header-value-length

Description Set the maximum header value length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-line-size

Description Set the maximum line size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-uri-length

Description Set the maximum uri size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-sdp-max-length

Description Set the maxinum SDP content length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

filter-header-list

Specification	Value
Type	*list*
Block object keys	

sip-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src; 'reset': Reset client connection(for sip-tcp);

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src, reset

Mutual Exclusion: sip-filter-action and sip-filter-action-list-name are mutually exclusive

sip-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip-filter-action-list-name and sip-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

sip-filter-header-seq

Description Sequence number

Type: number

Range: 1-200

sip-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip-header-cfg

Description: sip-header-cfg is a **JSON Block**. Please see below for *filter-header-list_sip-header-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

filter-header-list_sip-header-cfg

Specification	Value
Type	*object*

sip-filter-header-inverse-match

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

2.33.581 ddos zone-template sip filter-header

SIP Header Filter Configuration

filter-header Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*sip-filter-name*
Collection Name	*filter-header-list*
Collection URI	/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/filter-header
Element Name	filter-header
Element URI	/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/filter-header/{sip-filter-name}
Element Attributes	filter-header_attributes
Partition Visibility	shared
Schema	`filter-header schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/filter-header

filter-header attributes

Create List

POST

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/filter-header

filter-header attributes

Get Object

GET

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/filter-header/{sip-filter-name}

filter-header attributes

Get List

GET

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/filter-header

filter-header-list

Modify Object

POST

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/filter-header/{sip-filter-name}

filter-header attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/filter-header/{sip-filter-name}

filter-header attributes

Replace List

PUT

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/filter-header

filter-header-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/filter-header/{sip-filter-name}

filter-header attributes

filter-header-list

filter-header-list is **JSON List** of *filter-header attributes*

filter-header-list : [

{ *filter-header attributes* },

{ *filter-header attributes* },

...

]

filter-header attributes

sip-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src; 'reset': Reset client connection(for sip-tcp);

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src, reset

Mutual Exclusion: sip-filter-action and sip-filter-action-list-name are mutually exclusive

sip-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: sip-filter-action-list-name and sip-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

sip-filter-header-seq

Description Sequence number

Type: number

Range: 1-200

sip-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

sip-header-cfg

Description: sip-header-cfg is a **JSON Block**. Please see below for *sip-header-cfg*

Type: Object

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sip-header-cfg

Specification	Value
Type	*object*

sip-filter-header-inverse-match

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip-filter-header-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

2.33.582 ddos zone-template sip malformed-sip

Configure and enable malformed SIP check

malformed-sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	malformed-sip
Element URI	/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/malformed-sip
Element Attributes	malformed-sip_attributes
Partition Visibility	shared
Schema	`malformed-sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/malformed-sip

malformed-sip attributes

```
POST /axapi/v3/ddos/zone-template/sip/a/malformed-sip
Payload:
{
    "malformed-sip": {
        "malformed-sip-check": "enable-check"
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/malformed-sip

malformed-sip attributes

```
GET /axapi/v3/ddos/zone-template/sip/a/malformed-sip
Reponse:
{
    "malformed-sip": {
        "malformed-sip-check": "enable-check",
        "malformed-sip-max-line-size": 32511,
        "malformed-sip-max-uri-length": 32511,
        "malformed-sip-max-header-name-length": 63,
        "malformed-sip-max-header-value-length": 32511,
        "malformed-sip-call-id-max-length": 32511,
        "malformed-sip-sdp-max-length": 32511,
        "malformed-sip-action": "drop",
        "uuid": "79f6a32a-0890-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-template/sip/a/malformed-sip"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/malformed-sip

malformed-sip attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/malformed-sip

malformed-sip attributes

```
PUT /axapi/v3/ddos/zone-template/sip/a/malformed-sip
Payload:
{
    "malformed-sip": {
        "malformed-sip-check": "enable-check"
```

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```
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-template/sip/{sip-tmpl-name}/malformed-sip

malformed-sip attributes

```
DELETE /axapi/v3/ddos/zone-template/sip/a/malformed-sip
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

malformed-sip attributes

malformed-sip-action

Description 'drop': Drop packets (Default); 'reset': Reset (sip-tcp) client connection; 'blacklist-src': Blacklist-src;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: malformed-sip-action and malformed-sip-action-list-name are mutually exclusive

malformed-sip-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: malformed-sip-action-list-name and malformed-sip-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

malformed-sip-call-id-max-length

Description Set the maximum call-id length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-check

Description 'enable-check': Enable malformed SIP parameters;

Type: string

Supported Values: enable-check

malformed-sip-max-header-name-length

Description Set the maximum header name length. Default value is 63

Type: number

Range: 1-63

Default: 63

malformed-sip-max-header-value-length

Description Set the maximum header value length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-line-size

Description Set the maximum line size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-max-uri-length

Description Set the maximum uri size. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

malformed-sip-sdp-max-length

Description Set the maxinum SDP content length. Default value is 32511

Type: number

Range: 1-32511

Default: 32511

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.583 ddos zone-template ssl-l4

SSL-L4 template Configuration

ssl-l4 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*ssl-l4-tmpl-name*
Collection Name	*ssl-l4-list*
Collection URI	/axapi/v3/ddos/zone-template/ssl-l4
Element Name	ssl-l4
Element URI	/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}
Element Attributes	ssl-l4_attributes
Partition Visibility	shared
Schema	`ssl-l4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/ssl-l4

ssl-l4 attributes

```
POST /axapi/v3/ddos/zone-template/ssl-l4/
Payload:
{
    "ssl-l4": {
        "ssl-l4-tmpl-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-template/ssl-l4

ssl-l4 attributes

Get Object

GET

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}

ssl-l4 attributes

```
GET /axapi/v3/ddos/zone-template/ssl-l4/a
Reponse:
{
```

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```
    "ssl-l4": {
        "ssl-l4-tmpl-name": "a",
        "allow-non-tls": 0,
        "auth-handshake": {
            "auth-handshake-timeout": 5,
            "auth-handshake-trials": 5
        },
        "uuid": "a7f0dfe8-0890-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/zone-template/ssl-l4/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/zone-template/ssl-l4

ssl-l4-list

Modify Object

POST

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}

ssl-l4 attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}

ssl-l4 attributes

```
PUT /axapi/v3/ddos/zone-template/ssl-l4/a
Payload:
{
    "ssl-l4": {
        "ssl-l4-tmpl-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-template/ssl-l4

ssl-l4-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}

ssl-l4 attributes

```
DELETE /axapi/v3/ddos/zone-template/ssl-l4/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ssl-l4-list

ssl-l4-list is **JSON List** of *ssl-l4 attributes*

ssl-l4-list : [

{ *ssl-l4 attributes* },

{ *ssl-l4 attributes* },

...

]

ssl-l4 attributes

allow-non-tls

Description Allow Non-TLS (SSLv3 and lower) traffic (Warning: security may be compromised)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-handshake

Description: auth-handshake is a **JSON Block**. Please see below for *auth-handshake*

Type: Object

disable

Description Disable this template

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst

Description: dst is a **JSON Block**. Please see below for *dst*

Type: Object

multi-pu-threshold-distribution

Description: multi-pu-threshold-distribution is a **JSON Block**. Please see below for *multi-pu-threshold-distribution*

Type: Object

renegotiation

Description: renegotiation is a **JSON Block**. Please see below for *renegotiation*

Type: Object

src

Description: src is a **JSON Block**. Please see below for *src*

Type: Object

ssl-handshake-policy

Description: ssl-handshake-policy is a **JSON Block**. Please see below for *ssl-handshake-policy*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy*

ssl-l4-tmpl-name

Description DDOS SSL-L4 Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ssl-traffic-check

Description: ssl-traffic-check is a **JSON Block**. Please see below for *ssl-traffic-check*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

auth-handshake

Specification	Value
Type	*object*

auth-handshake-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: auth-handshake-fail-action and auth-handshake-fail-action-list-name are mutually exclusive

auth-handshake-fail-action-list-name

Description Configure action-list to take for failing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: auth-handshake-fail-action-list-name and auth-handshake-fail-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

auth-handshake-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: auth-handshake-pass-action and auth-handshake-pass-action-list-name are mutually exclusive

auth-handshake-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: auth-handshake-pass-action-list-name and auth-handshake-pass-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

auth-handshake-timeout

Description Connection timeout (default 5 seconds) and trials (default 5 times) (DST support only)

Type: number

Range: 1-31

Default: 5

auth-handshake-trials

Description Number of failed handshakes before entry marked black

Type: number

Range: 0-15

Default: 5

cert-cfg

Description: cert-cfg is a **JSON Block**. Please see below for *auth-handshake_cert-cfg*

Type: Object

server-name-list

Type: List

auth-handshake_cert-cfg

Specification	Value
Type	*object*

cert

Description SSL certificate

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

key

Description SSL key

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

key-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED password string)

key-passphrase

Description Password Phrase

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

auth-handshake_server-name-list

Specification	Value
Type	*list*
Block object keys	

server-cert

Description Server Certificate associated to SNI (Server Certificate Name)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED password string)

server-key

Description Server Private Key associated to SNI (Server Private Key Name)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-name

Description Server name indication in Client hello extension (Server name String)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

server-passphrase

Description Password Phrase

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *src_rate-limit*

Type: Object

src_rate-limit

Specification	Value
Type	*object*

request

Description: request is a **JSON Block**. Please see below for *src_rate-limit_request*

Type: Object

src_rate-limit_request

Specification	Value
Type	*object*

src-request-rate-limit

Description

Type: number

Range: 1-16000000

src-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, reset

Mutual Exclusion: src-request-rate-limit-action and src-request-rate-limit-action-list-name are mutually exclusive

src-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-request-rate-limit-action-list-name and src-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *dst_rate-limit*

Type: Object

dst_rate-limit

Specification	Value
Type	*object*

request

Description: request is a **JSON Block**. Please see below for *dst_rate-limit_request*

Type: Object

dst_rate-limit_request

Specification	Value
Type	*object*

dst-request-rate-limit

Description

Type: number

Range: 1-16000000

dst-request-rate-limit-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, reset

Mutual Exclusion: dst-request-rate-limit-action and dst-request-rate-limit-action-list-name are mutually exclusive

dst-request-rate-limit-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: dst-request-rate-limit-action-list-name and dst-request-rate-limit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

ssl-traffic-check

Specification	Value
Type	*object*

check-resumed-connection

Description Apply checks to SSL connections initialized by ACK packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

header-action

Description 'drop': Drop packets with bad ssl header; 'ignore': Forward packets with bad ssl header;

Type: string

Supported Values: drop, ignore

header-inspection

Description Inspect ssl header

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

multi-pu-threshold-distribution

Specification	Value
Type	*object*

multi-pu-threshold-distribution-disable

Description 'disable': Destination side rate limit only. Default: Enable;

Type: string

Supported Values: disable

Mutual Exclusion: multi-pu-threshold-distribution-disable and multi-pu-threshold-distribution-value are mutually exclusive

multi-pu-threshold-distribution-value

Description Destination side rate limit only. Default: 0

Type: number

Range: 1-16000000

Mutual Exclusion: multi-pu-threshold-distribution-value and multi-pu-threshold-distribution-disable are mutually exclusive

renegotiation

Specification	Value
Type	*object*

num-renegotiation

Description Number of renegotiation allowed

Type: number

Range: 0-7

ssl-l4-reneg-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'reset': Reset client connection;

Type: string

Supported Values: drop, ignore, blacklist-src, reset

Mutual Exclusion: ssl-l4-reneg-action and ssl-l4-reneg-action-list-name are mutually exclusive

ssl-l4-reneg-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-l4-reneg-action-list-name and ssl-l4-reneg-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

ssl-handshake-policy

Specification	Value
Type	*object*

action

Description 'drop': Drop packets (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist source IP;

Type: string

Supported Values: drop, reset, blacklist-src

Mutual Exclusion: action and ssl-handshake-policy-action-list-name are mutually exclusive

cipher-suites-limit

Description Set cipher suites limit

Type: number

Range: 1-600

client-extensions-limit

Description Set client extensions limit

Type: number

Range: 1-600

clienthello-to-appdata-timeout

Description Set maximum timeout seconds from ClientHello to App-Data

Type: number

Range: 1-600

finished-to-appdata-timeout

Description Set maximum timeout seconds from Handshake finished to App-Data

Type: number

Range: 1-600

src-handshaking-conn-limit

Description Set handshaking connection limit

Type: number

Range: 1-16000000

ssl-handshake-policy-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-handshake-policy-action-list-name and action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.584 ddos zone-template ssl-l4 ssl-handshake-policy

SSL Handshake Policy Configuration

ssl-handshake-policy Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ssl-handshake-policy
Element URI	/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy
Element Attributes	ssl-handshake-policy_attributes
Partition Visibility	shared
Schema	`ssl-handshake-policy schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy

ssl-handshake-policy attributes

```
POST /axapi/v3/ddos/zone-template/ssl-l4/a/ssl-handshake-policy
Payload:
{
    "ssl-handshake-policy": {
        "action": "drop"
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy

ssl-handshake-policy attributes

```
GET /axapi/v3/ddos/zone-template/ssl-l4/a/ssl-handshake-policy
Reponse:
{
    "ssl-handshake-policy": {
        "action": "drop",
        "uuid": "f4ac2ec8-0890-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-template/ssl-l4/a/ssl-handshake-policy"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy

ssl-handshake-policy attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy

ssl-handshake-policy attributes

```
PUT /axapi/v3/ddos/zone-template/ssl-l4/a/ssl-handshake-policy
Payload:
{
    "ssl-handshake-policy": {
        "action": "reset"
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-handshake-policy

ssl-handshake-policy attributes

```
DELETE /axapi/v3/ddos/zone-template/ssl-l4/a/ssl-handshake-policy
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

ssl-handshake-policy attributes

action

Description 'drop': Drop packets (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist source IP;

Type: string

Supported Values: drop, reset, blacklist-src

Mutual Exclusion: action and ssl-handshake-policy-action-list-name are mutually exclusive

cipher-suites-limit

Description Set cipher suites limit

Type: number

Range: 1-600

client-extensions-limit

Description Set client extensions limit

Type: number

Range: 1-600

clienthello-to-appdata-timeout

Description Set maximum timeout seconds from ClientHello to App-Data

Type: number

Range: 1-600

finished-to-appdata-timeout

Description Set maximum timeout seconds from Handshake finished to App-Data

Type: number

Range: 1-600

src-handshaking-conn-limit

Description Set handshaking connection limit

Type: number

Range: 1-16000000

ssl-handshake-policy-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ssl-handshake-policy-action-list-name and action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.585 ddos zone-template ssl-l4 ssl-traffic-check

SSL Traffic Check Configuration

ssl-traffic-check Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ssl-traffic-check
Element URI	/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check
Element Attributes	ssl-traffic-check_attributes
Partition Visibility	shared
Schema	`ssl-traffic-check schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check

ssl-traffic-check attributes

```
POST /axapi/v3/ddos/zone-template/ssl-l4/a/ssl-traffic-check
Payload:
{
    "ssl-traffic-check": {
        "header-action": "drop",
        "header-inspection": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check

ssl-traffic-check attributes

```
GET /axapi/v3/ddos/zone-template/ssl-l4/a/ssl-traffic-check
Reponse:
{
    "ssl-traffic-check": {
        "header-inspection": 1,
        "header-action": "drop",
        "check-resumed-connection": 0,
        "uuid": "132ed9c2-0891-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-template/ssl-l4/a/ssl-traffic-check"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check

ssl-traffic-check attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check

ssl-traffic-check attributes

```
PUT /axapi/v3/ddos/zone-template/ssl-l4/a/ssl-traffic-check
Payload:
{
    "ssl-traffic-check": {
        "header-action": "ignore",
        "header-inspection": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-template/ssl-l4/{ssl-l4-tmpl-name}/ssl-traffic-check

ssl-traffic-check attributes

```
DELETE /axapi/v3/ddos/zone-template/ssl-l4/a/ssl-traffic-check
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ssl-traffic-check attributes

check-resumed-connection

Description Apply checks to SSL connections initialized by ACK packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

header-action

Description 'drop': Drop packets with bad ssl header; 'ignore': Forward packets with bad ssl header;

Type: string

Supported Values: drop, ignore

header-inspection

Description Inspect ssl header

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.586 ddos zone-template tcp

TCP template Configuration

tcp Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*tcp-list*
Collection URI	/axapi/v3/ddos/zone-template/tcp
Element Name	tcp
Element URI	/axapi/v3/ddos/zone-template/tcp/{name}
Element Attributes	tcp_attributes
Partition Visibility	shared
Schema	`tcp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/tcp

tcp attributes

```
POST /axapi/v3/ddos/zone-template/tcp/
Payload:
{
    "tcp": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-template/tcp

tcp attributes

Get Object

GET

/axapi/v3/ddos/zone-template/tcp/{name}

tcp attributes

```
GET /axapi/v3/ddos/zone-template/tcp/a
Reponse:
{
    "tcp": {
        "name": "a",
        "age": 2,
        "age-out-reset-server": 0,
        "tcp-half-open-timeout": 120,
        "tcp-half-open-timeout-reset-server": 0,
        "syn-cookie": 0,
        "create-conn-on-syn-only": 0,
        "filter-match-type": "default",
        "per-conn-rate-interval": "1sec",
        "dst": {
            "rate-limit": {
                "syn-rate-limit": {
                    "dst-syn-rate-action": "drop"
                }
            }
        },
        "src": {
            "rate-limit": {
                "syn-rate-limit": {
                    "src-syn-rate-action": "drop"
```

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```
                }
            }
        },
        "allow-synack-skip-authentications": 0,
        "allow-syn-otherflags": 0,
        "allow-tcp-tfo": 0,
        "conn-rate-limit-on-syn-only": 0,
        "ack-authentication-synack-reset": 0,
        "known-resp-src-port-cfg": {
            "known-resp-src-port": 0
        },
        "syn-authentication": {
            "syn-auth-rto": 0
        },
        "ack-authentication": {
            "ack-auth-only": 0,
            "ack-auth-rto": 0
        },
        "uuid": "268bf928-0891-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/zone-template/tcp/a"
    }
}
```


Get List

GET

/axapi/v3/ddos/zone-template/tcp

tcp-list

Modify Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}

tcp attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/tcp/{name}

tcp attributes


```
PUT /axapi/v3/ddos/zone-template/tcp/a
Payload:
{
    "tcp": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-template/tcp

tcp-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/tcp/{name}

tcp attributes

```
DELETE /axapi/v3/ddos/zone-template/tcp/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

tcp-list

tcp-list is **JSON List** of *tcp attributes*

tcp-list : [

{ *tcp attributes* },

{ *tcp attributes* },

...

]

tcp attributes

ack-authentication

Description: ack-authentication is a **JSON Block**. Please see below for *ack-authentication*

Type: Object

ack-authentication-synack-reset

Description Reset client TCP SYN+ACK for authentication (DST support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

action-on-ack-rto-retry-count

Description Take action if ack-auth RTO-authentication fail over retry time(default:5)

Type: number

Range: 2-10

action-on-syn-rto-retry-count

Description Take action if syn-auth RTO-authentication fail over retry time(default:5)

Type: number

Range: 2-10

age

Description Session age in minutes

Type: number

Range: 1-63

Default: 2

Mutual Exclusion: age and age-second are mutually exclusive

age-out-reset-server

Description Send TCP reset to server if aging time has passed

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

age-second

Description Session age in seconds

Type: number

Range: 1-3600

Default: 120

Mutual Exclusion: age-second and age are mutually exclusive

allow-syn-otherflags

Description Treat TCP SYN+PSH as a TCP SYN (DST tcp ports support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-synack-skip-authentications

Description Allow create sessions on SYNACK without syn-auth and ack-auth (ASYM Mode only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

allow-tcp-tfo

Description Allow TCP Fast Open

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

concurrent

Description Enable concurrent port access for non-matching ports (DST support only)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

conn-rate-limit-on-syn-only

Description Only count SYN-initiated connections towards connection-rate tracking

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

create-conn-on-syn-only

Description Enable connection establishment on SYN only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dst

Description: dst is a **JSON Block**. Please see below for *dst*

Type: Object

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/filter/{tcp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

known-resp-src-port-cfg

Description: known-resp-src-port-cfg is a **JSON Block**. Please see below for *known-resp-src-port-cfg*

Type: Object

max-rexmit-syn-per-flow-cfg

Description: max-rexmit-syn-per-flow-cfg is a **JSON Block**. Please see below for *max-rexmit-syn-per-flow-cfg*

Type: Object

name

Description DDOS TCP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

out-of-seq-cfg

Description: out-of-seq-cfg is a **JSON Block**. Please see below for *out-of-seq-cfg*

Type: Object

per-conn-out-of-seq-rate-cfg

Description: per-conn-out-of-seq-rate-cfg is a **JSON Block**. Please see below for *per-conn-out-of-seq-rate-cfg*

Type: Object

per-conn-pkt-rate-cfg

Description: per-conn-pkt-rate-cfg is a **JSON Block**. Please see below for *per-conn-pkt-rate-cfg*

Type: Object

per-conn-rate-interval

Description '100ms': 100ms; '1sec': 1sec; '10sec': 10sec;

Type: string

Supported Values: 100ms, 1sec, 10sec

Default: 1sec

per-conn-retransmit-rate-cfg

Description: per-conn-retransmit-rate-cfg is a **JSON Block**. Please see below for *per-conn-retransmit-rate-cfg*

Type: Object

per-conn-zero-win-rate-cfg

Description: per-conn-zero-win-rate-cfg is a **JSON Block**. Please see below for *per-conn-zero-win-rate-cfg*

Type: Object

progression-tracking

Description: progression-tracking is a **JSON Block**. Please see below for *progression-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking*

retransmit-cfg

Description: retransmit-cfg is a **JSON Block**. Please see below for *retransmit-cfg*

Type: Object

small-win-cfg

Description: small-win-cfg is a **JSON Block**. Please see below for *small-win-cfg*

Type: Object

src

Description: src is a **JSON Block**. Please see below for *src*

Type: Object

syn-authentication

Description: syn-authentication is a **JSON Block**. Please see below for *syn-authentication*

Type: Object

syn-cookie

Description Enable SYN Cookie

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

synack-rate-limit

Description Config SYNACK rate limit

Type: number

Range: 1-16000000

Mutual Exclusion: synack-rate-limit and track-together-with-syn are mutually exclusive

tcp-half-open-timeout

Description TCP half-open session age in seconds

Type: number

Range: 1-3600

Default: 120

tcp-half-open-timeout-reset-server

Description Send TCP reset to server if TCP half-open session timeout

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

track-together-with-syn

Description SYNACK will be counted in Dst Syn-rate limit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: track-together-with-syn and synack-rate-limit are mutually exclusive

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zero-win-cfg

Description: zero-win-cfg is a **JSON Block**. Please see below for *zero-win-cfg*

Type: Object

syn-authentication

Specification	Value
Type	*object*

syn-auth-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Send reset to client (Applicable to retransmit-check only);

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: syn-auth-fail-action and syn-auth-fail-action-list-name are mutually exclusive

syn-auth-fail-action-list-name

Description Configure action-list to take for failing the authentication.

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: syn-auth-fail-action-list-name and syn-auth-fail-action are mutually exclusive

syn-auth-min-delay

Description Minimum delay (in 100ms intervals) between SYN retransmits for retransmit-check to pass

Type: number

Range: 1-80

Mutual Exclusion: syn-auth-min-delay and syn-auth-type are mutually exclusive

syn-auth-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: syn-auth-pass-action and syn-auth-pass-action-list-name are mutually exclusive

syn-auth-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: syn-auth-pass-action-list-name and syn-auth-pass-action are mutually exclusive

syn-auth-rto

Description Estimate the RTO and apply the exponential back-off for authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-auth-timeout

Description syn retransmit timeout in seconds(default timeout: 5 seconds)

Type: number

Range: 1-31

Mutual Exclusion: syn-auth-timeout and syn-auth-type are mutually exclusive

syn-auth-type

Description 'send-rst': Send reset to client after syn cookie check pass; 'force-rst-by-ack': Send client a bad ack after syn cookie check pass; 'force-rst-by-synack': Send client a bad synack after syn cookie check pass;

Type: string

Supported Values: send-rst, force-rst-by-ack, force-rst-by-synack, send-rst-once, hybrid

Mutual Exclusion: syn-auth-type, syn-auth-timeout, and syn-auth-min-delay are mutually exclusive

ack-authentication

Specification	Value
Type	*object*

ack-auth-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src; 'reset': Send reset to client;

Type: string

Supported Values: drop, blacklist-src, reset

Mutual Exclusion: ack-auth-fail-action and ack-auth-fail-action-list-name are mutually exclusive

ack-auth-fail-action-list-name

Description Configure action-list to take for failing the authentication.

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ack-auth-fail-action-list-name and ack-auth-fail-action are mutually exclusive

ack-auth-min-delay

Description Minimum delay (in 100ms intervals) between ACK retransmits for retransmit-check to pass

Type: number

Range: 1-80

ack-auth-only

Description Apply retransmit-check only once per source address for authentication purpose

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ack-auth-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: ack-auth-pass-action and ack-auth-pass-action-list-name are mutually exclusive

ack-auth-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ack-auth-pass-action-list-name and ack-auth-pass-action are mutually exclusive

ack-auth-rto

Description Estimate the RTO and apply the exponential back-off for authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ack-auth-timeout

Description ack retransmit timeout in seconds(default timeout: 5 seconds)

Type: number

Range: 1-31

retransmit-cfg

Specification	Value
Type	*object*

retransmit

Description Take action if retransmit pkts exceed configured threshold

Type: number

Range: 1-64000

Mutual Exclusion: retransmit and per-conn-retransmit-rate-limit are mutually exclusive

retransmit-action

Description 'drop': Drop packets for retrans exceed (Default); 'blacklist-src': help Blacklist-src for retrans exceed; 'ignore': help Ignore retrans exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: retransmit-action and retransmit-action-list-name are mutually exclusive

retransmit-action-list-name

Description Configure action-list to take for retransmit exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: retransmit-action-list-name and retransmit-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

dst

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *dst_rate-limit*

Type: Object

dst_rate-limit

Specification	Value
Type	*object*

syn-rate-limit

Description: syn-rate-limit is a **JSON Block**. Please see below for *dst_rate-limit_syn-rate-limit*

Type: Object

dst_rate-limit_syn-rate-limit

Specification	Value
Type	*object*

dst-syn-rate-action

Description 'drop': Drop packets for syn-rate exceed (Default); 'ignore': Ignore syn-rate-exceed;

Type: string

Supported Values: drop, ignore

Default: drop

dst-syn-rate-limit

Description

Type: number

Range: 1-16000000

per-conn-retransmit-rate-cfg

Specification	Value
Type	*object*

per-conn-retransmit-rate-action

Description 'drop': Drop packets for retrans rate exceed (Default); 'blacklist-src': help Blacklist-src for retrans rate exceed; 'ignore': help Ignore retrans rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-retransmit-rate-action and per-conn-retransmit-rate-action-list-name are mutually exclusive

per-conn-retransmit-rate-action-list-name

Description Configure action-list to take for retransmit rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-retransmit-rate-action-list-name and per-conn-retransmit-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-retransmit-rate-limit

Description Take action if retransmit pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-retransmit-rate-limit and retransmit are mutually exclusive

per-conn-zero-win-rate-cfg

Specification	Value
Type	*object*

per-conn-zero-win-rate-action

Description 'drop': Drop packets for zero-win rate exceed (Default); 'blacklist-src': help Blacklist-src for zero-win rate exceed; 'ignore': Ignore zero-win rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-zero-win-rate-action and per-conn-zero-win-rate-action-list-name are mutually exclusive

per-conn-zero-win-rate-action-list-name

Description Configure action-list to take for zero window rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-zero-win-rate-action-list-name and per-conn-zero-win-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-zero-win-rate-limit

Description Take action if zero window pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-zero-win-rate-limit and zero-win are mutually exclusive

per-conn-pkt-rate-cfg

Specification	Value
Type	*object*

per-conn-pkt-rate-action

Description 'drop': Drop packets for per-conn-pkt-rate exceed (Default); 'blacklist-src': help Blacklist-src for per-conn-pkt-rate exceed; 'ignore': Ignore per-conn-pkt-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-pkt-rate-action and per-conn-pkt-rate-action-list-name are mutually exclusive

per-conn-pkt-rate-action-list-name

Description Configure action-list to take for per-conn-pkt-rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-pkt-rate-action-list-name and per-conn-pkt-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-pkt-rate-limit

Description Packet rate limit per connection per rate-interval

Type: number

Range: 1-16000000

filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Default: drop

Mutual Exclusion: tcp-filter-action and tcp-filter-action-list-name are mutually exclusive

tcp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp-filter-action-list-name and tcp-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

tcp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

max-rexmit-syn-per-flow-cfg

Specification	Value
Type	*object*

max-rexmit-syn-per-flow

Description Maximum number of re-transmit SYN per flow

Type: number

Range: 1-6

max-rexmit-syn-per-flow-action

Description 'drop': Drop SYN packets for max-rexmit-syn-per-flow exceed (Default); 'blacklist-src': help Blacklist-src for max-rexmit-syn-per-flow exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

max-rexmit-syn-per-flow-action-list-name

Description Configure action-list to take for max-rexmit-syn-per-flow exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ddos/action-list*

src

Specification	Value
Type	*object*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *src_rate-limit*

Type: Object

src_rate-limit

Specification	Value
Type	*object*

syn-rate-limit

Description: syn-rate-limit is a **JSON Block**. Please see below for *src_rate-limit_syn-rate-limit*

Type: Object

src_rate-limit_syn-rate-limit

Specification	Value
Type	*object*

src-syn-rate-action

Description 'drop': Drop packets for syn-rate exceed (Default); 'blacklist-src': Blacklist-src for syn-rate exceed; 'ignore': Ignore syn-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: src-syn-rate-action and src-syn-rate-action-list-name are mutually exclusive

src-syn-rate-action-list-name

Description Configure action-list to take for syn-rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: src-syn-rate-action-list-name and src-syn-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

src-syn-rate-limit

Description

Type: number

Range: 1-16000000

progression-tracking

Specification	Value
Type	*object*

ignore-TLS-handshake

Description Ignore TLS handshake, support SSL-L4 port only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

mitigation

Description: mitigation is a **JSON Block**. Please see below for *progression-tracking_mitigation*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation*

profiling

Description: profiling is a **JSON Block**. Please see below for *progression-tracking_profiling*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/profiling*

progression-tracking-enabled

Description 'enable-check': Enable Progression Tracking Check;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

progression-tracking_mitigation

Specification	Value
Type	*object*

connection-tracking

Description: connection-tracking is a **JSON Block**. Please see below for *progression-tracking_mitigation_connection-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/connection-tracking*

request-tracking

Description: request-tracking is a **JSON Block**. Please see below for *progression-tracking_mitigation_request-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/request-tracking*

slow-attack

Description: slow-attack is a **JSON Block**. Please see below for *progression-tracking_mitigation_slow-attack*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack*

time-window-tracking

Description: time-window-tracking is a **JSON Block**. Please see below for *progression-tracking_mitigation_time-window-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/time-window-tracking*

progression-tracking_mitigation_time-window-tracking

Specification	Value
Type	*object*

progression-tracking-win-enabled

Description 'enable-check': Enable Progression Tracking per Time Window;

Type: string

Supported Values: enable-check

Default: enable-check

progression-tracking-windows-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-windows-action and progression-tracking-windows-action-list-name are mutually exclusive

progression-tracking-windows-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-windows-action-list-name and progression-tracking-windows-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

window-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

window-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

window-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

window-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

window-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking_mitigation_slow-attack

Specification	Value
Type	*object*

init-request-max-time

Description Set client query time (in unit of 100ms). Suggested value larger than 30 secs

Type: number

Range: 2-6000

init-response-max-time

Description Set server think time (in unit of 100ms). Suggested value larger than 45 secs

Type: number

Range: 2-6000

progression-tracking-slow-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-slow-action and progression-tracking-slow-action-list-name are mutually exclusive

progression-tracking-slow-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-slow-action-list-name and progression-tracking-slow-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

response-pkt-rate-max

Description Set the transferred packets per response

Type: number

Range: 1-255

slow-attack

Description 'enable-check': Enter Progression Tracking Tracking Slow Attack;

Type: string

Supported Values: enable-check

Default: enable-check

slow-attacker-identification

Description: slow-attacker-identification is a **JSON Block**. Please see below for *progression-tracking_mitigation_slow-attack_slow-attacker-identification*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack/slow-attacker-identification*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

progression-tracking_mitigation_slow-attack_slow-attacker-identification

Specification	Value
Type	*object*

active-connection

Description Set the minimum tracking active connection to start identifying slow attacker, default value is 3

Type: number

Range: 1-65535

Default: 3

bad-connection

Description Set the maximum percentage of slow connection (per source), default value is 75

Type: number

Range: 1-100

Default: 75

enable-identification

Description Progression tracking will identify slow attacker and blacklist it based on the config value

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

progression-tracking_mitigation_connection-tracking

Specification	Value
Type	*object*

conn-duration-max

Description Set the maximum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-2147483647

conn-duration-min

Description Set the minimum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-2147483647

conn-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-2147483647

conn-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of milli-, 0.001)

Type: number

Range: 1-2147483647

conn-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of milli-, 0.001)

Type: number

Range: 1-65535

conn-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-2147483647

conn-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

conn-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking-conn-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-conn-action and progression-tracking-conn-action-list-name are mutually exclusive

progression-tracking-conn-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-conn-action-list-name and progression-tracking-conn-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-conn-enabled

Description 'enable-check': Enable General Progression Tracking per Connection;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

progression-tracking_mitigation_request-tracking

Specification	Value
Type	*object*

first-request-max-time

Description Set the maximum idle time before the first request (in unit of 100ms)

Type: number

Range: 1-65535

progression-tracking-req-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-req-action and progression-tracking-req-action-list-name are mutually exclusive

progression-tracking-req-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-req-action-list-name and progression-tracking-req-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-req-enabled

Description 'enable-check': Enable General Progression Tracking per Request Response;

Type: string

Supported Values: enable-check

Default: enable-check

request-length-max

Description Set the maximum request length

Type: number

Range: 1-65535

request-length-min

Description Set the minimum request length

Type: number

Range: 1-65535

request-response-model

Description 'enable': Enable Request Response Model (Default); 'disable': Disable Request Response Model;

Type: string

Supported Values: enable, disable

Default: enable

request-to-response-max-time

Description Set the maximum request to response time (in unit of 100ms)

Type: number

Range: 1-65535

response-length-max

Description Set the maximum response length

Type: number

Range: 1-4294967295

response-length-min

Description Set the minimum response length

Type: number

Range: 1-65535

response-to-request-max-time

Description Set the maximum response to request time (in unit of 100ms)

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking_profiling

Specification	Value
Type	*object*

profiling-connection-life-model

Description Enable auto-config progression tracking learning for connection model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-request-response-model

Description Enable auto-config progression tracking learning for request response model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-time-window-model

Description Enable auto-config progression tracking learning for time window model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

known-resp-src-port-cfg

Specification	Value
Type	*object*

exclude-src-resp-port

Description Exclude src port equal to dst port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

known-resp-src-port

Description Take action if src-port is less than 1024

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

known-resp-src-port-action

Description 'drop': Drop packets from well-known src-port(Default); 'blacklist-src': Blacklist-src from well-known src-port; 'ignore': Ignore well-known src-port;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: known-resp-src-port-action and known-resp-src-port-action-list-name are mutually exclusive

known-resp-src-port-action-list-name

Description Configure action-list to take for well-known src-port

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: known-resp-src-port-action-list-name and known-resp-src-port-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

zero-win-cfg

Specification	Value
Type	*object*

zero-win

Description Take action if zero window pkts exceed configured threshold

Type: number

Range: 1-250

Mutual Exclusion: zero-win and per-conn-zero-win-rate-limit are mutually exclusive

zero-win-action

Description 'drop': Drop packets for zero-win exceed (Default); 'blacklist-src': help Blacklist-src for zero-win exceed; 'ignore': Ignore zero-win exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: zero-win-action and zero-win-action-list-name are mutually exclusive

zero-win-action-list-name

Description Configure action-list to take for zero window exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: zero-win-action-list-name and zero-win-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-out-of-seq-rate-cfg

Specification	Value
Type	*object*

per-conn-out-of-seq-rate-action

Description 'drop': Drop packets for out-of-seq rate exceed (Default); 'blacklist-src': help Blacklist-src for out-of-seq rate exceed; 'ignore': help Ignore out-of-seq rate exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-out-of-seq-rate-action and per-conn-out-of-seq-rate-action-list-name are mutually exclusive

per-conn-out-of-seq-rate-action-list-name

Description Configure action-list to take for out-of-seq rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-out-of-seq-rate-action-list-name and per-conn-out-of-seq-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-out-of-seq-rate-limit

Description Take action if out-of-seq pkt rate exceed configured threshold

Type: number

Range: 1-16000000

Mutual Exclusion: per-conn-out-of-seq-rate-limit and out-of-seq are mutually exclusive

out-of-seq-cfg

Specification	Value
Type	*object*

out-of-seq

Description Take action if out-of-seq pkts exceed configured threshold

Type: number

Range: 1-64000

Mutual Exclusion: out-of-seq and per-conn-out-of-seq-rate-limit are mutually exclusive

out-of-seq-action

Description 'drop': Drop packets for out-of-seq exceed (Default); 'blacklist-src': help Blacklist-src for out-of-seq exceed; 'ignore': help Ignore out-of-seq exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: out-of-seq-action and out-of-seq-action-list-name are mutually exclusive

out-of-seq-action-list-name

Description Configure action-list to take for out-of-seq exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: out-of-seq-action-list-name and out-of-seq-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

small-win-cfg

Specification	Value
Type	*object*

small-window

Description Smallest allowed window size

Type: number

Range: 1-65535

small-window-action

Description 'drop': Drop packets for small-window exceed (Default); 'blacklist-src': help Blacklist-src for small-window exceed; 'ignore': Ignore small-window exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: small-window-action and small-window-action-list-name are mutually exclusive

small-window-action-list-name

Description Configure action-list to take for small window exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: small-window-action-list-name and small-window-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

small-window-threshold

Description Take action if small window pkts exceed configured threshold

Type: number

Range: 1-250

2.33.587 ddos zone-template tcp filter

TCP Filter Configuration

filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*tcp-filter-name*
Collection Name	*filter-list*
Collection URI	/axapi/v3/ddos/zone-template/tcp/{name}/filter
Element Name	filter
Element URI	/axapi/v3/ddos/zone-template/tcp/{name}/filter/{tcp-filter-name}
Element Attributes	filter_attributes
Partition Visibility	shared
Schema	`filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/filter

filter attributes

Create List

POST

/axapi/v3/ddos/zone-template/tcp/{name}/filter

filter attributes

Get Object

GET

/axapi/v3/ddos/zone-template/tcp/{name}/filter/{tcp-filter-name}

filter attributes

Get List

GET

/axapi/v3/ddos/zone-template/tcp/{name}/filter

filter-list

Modify Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/filter/{tcp-filter-name}

filter attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/tcp/{name}/filter/{tcp-filter-name}

filter attributes

Replace List

PUT

/axapi/v3/ddos/zone-template/tcp/{name}/filter

filter-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/tcp/{name}/filter/{tcp-filter-name}

filter attributes

filter-list

filter-list is **JSON List** of *filter attributes*

filter-list : [

{ *filter attributes* },

{ *filter attributes* },

...

]

filter attributes

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Default: drop

Mutual Exclusion: tcp-filter-action and tcp-filter-action-list-name are mutually exclusive

tcp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: tcp-filter-action-list-name and tcp-filter-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

tcp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

tcp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.588 ddos zone-template tcp progression-tracking

Configure and enable TCP Progression Tracking

progression-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	progression-tracking
Element URI	/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking
Element Attributes	progression-tracking_attributes
Partition Visibility	shared
Schema	`progression-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking

progression-tracking attributes

```
POST /axapi/v3/ddos/zone-template/tcp/a/progression-tracking
Payload:
{
    "progression-tracking": {
        "progression-tracking-enabled": "enable-check",
        "ignore-TLS-handshake": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking

progression-tracking attributes

```
GET /axapi/v3/ddos/zone-template/tcp/a/progression-tracking
Reponse:
{
    "progression-tracking": {
        "progression-tracking-enabled": "enable-check",
        "ignore-TLS-handshake": 1,
        "uuid": "03798c7e-0892-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-template/tcp/a/progression-tracking"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking

progression-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking

progression-tracking attributes

```
PUT /axapi/v3/ddos/zone-template/tcp/a/progression-tracking
Payload:
{
    "progression-tracking": {
        "progression-tracking-enabled": "enable-check",
        "ignore-TLS-handshake": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking

progression-tracking attributes

```
DELETE /axapi/v3/ddos/zone-template/tcp/a/progression-tracking
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

progression-tracking attributes

ignore-TLS-handshake

Description Ignore TLS handshake, support SSL-L4 port only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

mitigation

Description: mitigation is a **JSON Block**. Please see below for *mitigation*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation*

profiling

Description: profiling is a **JSON Block**. Please see below for *profiling*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/profiling*

progression-tracking-enabled

Description 'enable-check': Enable Progression Tracking Check;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mitigation

Specification	Value
Type	*object*

connection-tracking

Description: connection-tracking is a **JSON Block**. Please see below for *mitigation_connection-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/connection-tracking*

request-tracking

Description: request-tracking is a **JSON Block**. Please see below for *mitigation_request-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/request-tracking*

slow-attack

Description: slow-attack is a **JSON Block**. Please see below for *mitigation_slow-attack*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack*

time-window-tracking

Description: time-window-tracking is a **JSON Block**. Please see below for *mitigation_time-window-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/time-window-tracking*

mitigation_time-window-tracking

Specification	Value
Type	*object*

progression-tracking-win-enabled

Description 'enable-check': Enable Progression Tracking per Time Window;

Type: string

Supported Values: enable-check

Default: enable-check

progression-tracking-windows-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-windows-action and progression-tracking-windows-action-list-name are mutually exclusive

progression-tracking-windows-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-windows-action-list-name and progression-tracking-windows-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

window-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

window-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

window-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

window-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

window-violation

Description Set the violation threshold

Type: number

Range: 1-255

mitigation_slow-attack

Specification	Value
Type	*object*

init-request-max-time

Description Set client query time (in unit of 100ms). Suggested value larger than 30 secs

Type: number

Range: 2-6000

init-response-max-time

Description Set server think time (in unit of 100ms). Suggested value larger than 45 secs

Type: number

Range: 2-6000

progression-tracking-slow-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-slow-action and progression-tracking-slow-action-list-name are mutually exclusive

progression-tracking-slow-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-slow-action-list-name and progression-tracking-slow-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

response-pkt-rate-max

Description Set the transferred packets per response

Type: number

Range: 1-255

slow-attack

Description 'enable-check': Enter Progression Tracking Tracking Slow Attack;

Type: string

Supported Values: enable-check

Default: enable-check

slow-attacker-identification

Description: slow-attacker-identification is a **JSON Block**. Please see below for *mitigation_slow-attack_slow-attacker-identification*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack/slow-attacker-identification*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mitigation_slow-attack_slow-attacker-identification

Specification	Value
Type	*object*

active-connection

Description Set the minimum tracking active connection to start identifying slow attacker, default value is 3

Type: number

Range: 1-65535

Default: 3

bad-connection

Description Set the maximum percentage of slow connection (per source), default value is 75

Type: number

Range: 1-100

Default: 75

enable-identification

Description Progression tracking will identify slow attacker and blacklist it based on the config value

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mitigation_connection-tracking

Specification	Value
Type	*object*

conn-duration-max

Description Set the maximum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-2147483647

conn-duration-min

Description Set the minimum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-2147483647

conn-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-2147483647

conn-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of milli-, 0.001)

Type: number

Range: 1-2147483647

conn-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of milli-, 0.001)

Type: number

Range: 1-65535

conn-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-2147483647

conn-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

conn-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking-conn-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-conn-action and progression-tracking-conn-action-list-name are mutually exclusive

progression-tracking-conn-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-conn-action-list-name and progression-tracking-conn-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-conn-enabled

Description 'enable-check': Enable General Progression Tracking per Connection;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mitigation_request-tracking

Specification	Value
Type	*object*

first-request-max-time

Description Set the maximum idle time before the first request (in unit of 100ms)

Type: number

Range: 1-65535

progression-tracking-req-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-req-action and progression-tracking-req-action-list-name are mutually exclusive

progression-tracking-req-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-req-action-list-name and progression-tracking-req-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-req-enabled

Description 'enable-check': Enable General Progression Tracking per Request Response;

Type: string

Supported Values: enable-check

Default: enable-check

request-length-max

Description Set the maximum request length

Type: number

Range: 1-65535

request-length-min

Description Set the minimum request length

Type: number

Range: 1-65535

request-response-model

Description 'enable': Enable Request Response Model (Default); 'disable': Disable Request Response Model;

Type: string

Supported Values: enable, disable

Default: enable

request-to-response-max-time

Description Set the maximum request to response time (in unit of 100ms)

Type: number

Range: 1-65535

response-length-max

Description Set the maximum response length

Type: number

Range: 1-4294967295

response-length-min

Description Set the minimum response length

Type: number

Range: 1-65535

response-to-request-max-time

Description Set the maximum response to request time (in unit of 100ms)

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation

Description Set the violation threshold

Type: number

Range: 1-255

profiling

Specification	Value
Type	*object*

profiling-connection-life-model

Description Enable auto-config progression tracking learning for connection model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-request-response-model

Description Enable auto-config progression tracking learning for request response model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-time-window-model

Description Enable auto-config progression tracking learning for time window model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.589 ddos zone-template tcp progression-tracking mitigation

Configure and enable TCP Progression Tracking Mitigation

mitigation Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	mitigation
Element URI	/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation
Element Attributes	mitigation_attributes
Partition Visibility	shared
Schema	`mitigation schema`

Operations Allowed:

Get Object

GET

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation

mitigation_attributes

```
GET /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation
Reponse:
{
    "mitigation": {
        "request-tracking": {
            "progression-tracking-req-enabled": "enable-check",
            "request-response-model": "enable",
            "progression-tracking-req-action": "drop",
            "uuid": "1ceaf8e6-0892-11f0-b674-001fa04507c0",
            "a10-url": "/axapi/v3/ddos/zone-template/tcp/a/progression-tracking/
↪mitigation/request-tracking"
        },
        "a10-url": "/axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation"
```

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```
    }
}
```

mitigation attributes

connection-tracking

Description: connection-tracking is a **JSON Block**. Please see below for *connection-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/connection-tracking*

request-tracking

Description: request-tracking is a **JSON Block**. Please see below for *request-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/request-tracking*

slow-attack

Description: slow-attack is a **JSON Block**. Please see below for *slow-attack*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack*

time-window-tracking

Description: time-window-tracking is a **JSON Block**. Please see below for *time-window-tracking*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/time-window-tracking*

time-window-tracking

Specification	Value
Type	*object*

progression-tracking-win-enabled

Description 'enable-check': Enable Progression Tracking per Time Window;

Type: string

Supported Values: enable-check

Default: enable-check

progression-tracking-windows-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-windows-action and progression-tracking-windows-action-list-name are mutually exclusive

progression-tracking-windows-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-windows-action-list-name and progression-tracking-windows-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

window-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

window-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

window-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

window-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

window-violation

Description Set the violation threshold

Type: number

Range: 1-255

slow-attack

Specification	Value
Type	*object*

init-request-max-time

Description Set client query time (in unit of 100ms). Suggested value larger than 30 secs

Type: number

Range: 2-6000

init-response-max-time

Description Set server think time (in unit of 100ms). Suggested value larger than 45 secs

Type: number

Range: 2-6000

progression-tracking-slow-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-slow-action and progression-tracking-slow-action-list-name are mutually exclusive

progression-tracking-slow-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-slow-action-list-name and progression-tracking-slow-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

response-pkt-rate-max

Description Set the transferred packets per response

Type: number

Range: 1-255

slow-attack

Description 'enable-check': Enter Progression Tracking Tracking Slow Attack;

Type: string

Supported Values: enable-check

Default: enable-check

slow-attacker-identification

Description: slow-attacker-identification is a **JSON Block**. Please see below for *slow-attack_slow-attacker-identification*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack/slow-attacker-identification*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

slow-attack_slow-attacker-identification

Specification	Value
Type	*object*

active-connection

Description Set the minimum tracking active connection to start identifying slow attacker, default value is 3

Type: number

Range: 1-65535

Default: 3

bad-connection

Description Set the maximum percentage of slow connection (per source), default value is 75

Type: number

Range: 1-100

Default: 75

enable-identification

Description Progression tracking will identify slow attacker and blacklist it based on the config value

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

connection-tracking

Specification	Value
Type	*object*

conn-duration-max

Description Set the maximum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-2147483647

conn-duration-min

Description Set the minimum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-2147483647

conn-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-2147483647

conn-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of milli-, 0.001)

Type: number

Range: 1-2147483647

conn-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of milli-, 0.001)

Type: number

Range: 1-65535

conn-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-2147483647

conn-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

conn-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking-conn-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-conn-action and progression-tracking-conn-action-list-name are mutually exclusive

progression-tracking-conn-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-conn-action-list-name and progression-tracking-conn-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-conn-enabled

Description 'enable-check': Enable General Progression Tracking per Connection;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

request-tracking

Specification	Value
Type	*object*

first-request-max-time

Description Set the maximum idle time before the first request (in unit of 100ms)

Type: number

Range: 1-65535

progression-tracking-req-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-req-action and progression-tracking-req-action-list-name are mutually exclusive

progression-tracking-req-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-req-action-list-name and progression-tracking-req-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-req-enabled

Description 'enable-check': Enable General Progression Tracking per Request Response;

Type: string

Supported Values: enable-check

Default: enable-check

request-length-max

Description Set the maximum request length

Type: number

Range: 1-65535

request-length-min

Description Set the minimum request length

Type: number

Range: 1-65535

request-response-model

Description 'enable': Enable Request Response Model; 'disable': Disable Request Response Model;

Type: string

Supported Values: enable, disable

Default: enable

request-to-response-max-time

Description Set the maximum request to response time (in unit of 100ms)

Type: number

Range: 1-65535

response-length-max

Description Set the maximum response length

Type: number

Range: 1-4294967295

response-length-min

Description Set the minimum response length

Type: number

Range: 1-65535

response-to-request-max-time

Description Set the maximum response to request time (in unit of 100ms)

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation

Description Set the violation threshold

Type: number

Range: 1-255

2.33.590 ddos zone-template tcp progression-tracking mitigation connection-tracking

Configure and enable TCP Progression Tracking Mitigation per Connection

connection-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	connection-tracking
Element URI	/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/connection-tracking
Element Attributes	connection-tracking_attributes
Partition Visibility	shared
Schema	`connection-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/connection-tracking

connection-tracking attributes

```
POST /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/connection-
↪tracking
Payload:
{
    "connection-tracking": {
        "progression-tracking-conn-enabled": "enable-check",
        "conn-sent-max": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/connection-tracking

connection-tracking attributes

```
GET /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/connection-
↪tracking
Reponse:
{
    "connection-tracking": {
        "progression-tracking-conn-enabled": "enable-check",
        "conn-sent-max": 1,
        "progression-tracking-conn-action": "drop",
        "uuid": "2f092ad4-0892-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/
↪connection-tracking"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/connection-tracking

connection-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/connection-tracking

connection-tracking attributes

```
PUT /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/connection-
↪tracking
Payload:
{
    "connection-tracking": {
        "progression-tracking-conn-enabled": "enable-check",
        "conn-sent-max": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/connection-tracking

connection-tracking attributes

```
DELETE /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/connection-
```

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```
↪tracking
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

connection-tracking attributes

conn-duration-max

Description Set the maximum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-2147483647

conn-duration-min

Description Set the minimum duration time (in unit of 100ms, up to 24 hours)

Type: number

Range: 1-864000

conn-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-2147483647

conn-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-2147483647

conn-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of milli-, 0.001)

Type: number

Range: 1-2147483647

conn-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of milli-, 0.001)

Type: number

Range: 1-65535

conn-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-2147483647

conn-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

conn-violation

Description Set the violation threshold

Type: number

Range: 1-255

progression-tracking-conn-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-conn-action and progression-tracking-conn-action-list-name are mutually exclusive

progression-tracking-conn-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-conn-action-list-name and progression-tracking-conn-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-conn-enabled

Description 'enable-check': Enable General Progression Tracking per Connection;

Type: string

Supported Values: enable-check

Default: enable-check

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.591 ddos zone-template tcp progression-tracking mitigation request-tracking

Configure and enable TCP Progression Tracking Mitigation per Request response

request-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	request-tracking
Element URI	/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/request-tracking
Element Attributes	request-tracking_attributes
Partition Visibility	shared
Schema	`request-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/request-tracking

request-tracking attributes

```
POST /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/request-tracking
Payload:
{
    "request-tracking": {
        "progression-tracking-req-enabled": "enable-check",
        "request-response-model": "enable"
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/request-tracking

request-tracking attributes

```
GET /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/request-tracking
Reponse:
{
    "request-tracking": {
        "progression-tracking-req-enabled": "enable-check",
```

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```
        "request-response-model": "enable",
        "progression-tracking-req-action": "drop",
        "uuid": "5b446294-0892-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/
↪request-tracking"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/request-tracking

request-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/request-tracking

request-tracking attributes

```
PUT /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/request-tracking
Payload:
{
    "request-tracking": {
        "progression-tracking-req-enabled": "enable-check",
        "response-length-max": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/request-tracking

request-tracking attributes

```
DELETE /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/request-
↪tracking
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

request-tracking attributes

first-request-max-time

Description Set the maximum idle time before the first request (in unit of 100ms)

Type: number

Range: 1-65535

progression-tracking-req-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-req-action and progression-tracking-req-action-list-name are mutually exclusive

progression-tracking-req-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-req-action-list-name and progression-tracking-req-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

progression-tracking-req-enabled

Description 'enable-check': Enable General Progression Tracking per Request Response;

Type: string

Supported Values: enable-check

Default: enable-check

request-length-max

Description Set the maximum request length

Type: number

Range: 1-65535

request-length-min

Description Set the minimum request length

Type: number

Range: 1-65535

request-response-model

Description 'enable': Enable Request Response Model; 'disable': Disable Request Response Model;

Type: string

Supported Values: enable, disable

Default: enable

request-to-response-max-time

Description Set the maximum request to response time (in unit of 100ms)

Type: number

Range: 1-65535

response-length-max

Description Set the maximum response length

Type: number

Range: 1-4294967295

response-length-min

Description Set the minimum response length

Type: number

Range: 1-65535

response-to-request-max-time

Description Set the maximum response to request time (in unit of 100ms)

Type: number

Range: 1-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

violation

Description Set the violation threshold

Type: number

Range: 1-255

2.33.592 ddos zone-template tcp progression-tracking mitigation slow-attack

Configure and enable TCP progression Tracking Mitigation for slow attack (identify slow attacker)

slow-attack Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	slow-attack
Element URI	/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack
Element Attributes	slow-attack_attributes
Partition Visibility	shared
Schema	`slow-attack schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack

slow-attack attributes

```
POST /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/slow-attack
Payload:
{
    "slow-attack": {
        "slow-attack": "enable-check",
        "init-response-max-time": 2
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack

slow-attack attributes

```
GET /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/slow-attack
Reponse:
{
    "slow-attack": {
        "slow-attack": "enable-check",
        "init-response-max-time": 2,
        "progression-tracking-slow-action": "drop",
        "uuid": "854c12da-0892-11f0-b674-001fa04507c0",
```

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```
        "a10-url": "/axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/
↪slow-attack"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack

slow-attack attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack

slow-attack attributes

```
PUT /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/slow-attack
Payload:
{
    "slow-attack": {
        "slow-attack": "enable-check",
        "init-response-max-time": 3
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack

slow-attack attributes

```
DELETE /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/slow-attack
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

slow-attack attributes

init-request-max-time

Description Set client query time (in unit of 100ms). Suggested value larger than 30 secs

Type: number

Range: 2-6000

init-response-max-time

Description Set server think time (in unit of 100ms). Suggested value larger than 45 secs

Type: number

Range: 2-6000

progression-tracking-slow-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'reset': Reset client connection; 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, reset, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-slow-action and progression-tracking-slow-action-list-name are mutually exclusive

progression-tracking-slow-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-slow-action-list-name and progression-tracking-slow-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

response-pkt-rate-max

Description Set the transferred packets per response

Type: number

Range: 1-255

slow-attack

Description 'enable-check': Enter Progression Tracking Tracking Slow Attack;

Type: string

Supported Values: enable-check

Default: enable-check

slow-attacker-identification

Description: slow-attacker-identification is a **JSON Block**. Please see below for *slow-attacker-identification*

Type: Object

Reference Object: */axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack/slow-attacker-identification*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

slow-attacker-identification

Specification	Value
Type	*object*

active-connection

Description Set the minimum tracking active connection to start identifying slow attacker, default value is 3

Type: number

Range: 1-65535

Default: 3

bad-connection

Description Set the maximum percentage of slow connection (per source), default value is 75

Type: number

Range: 1-100

Default: 75

enable-identification

Description Progression tracking will identify slow attacker and blacklist it based on the config value

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.593 ddos zone-template tcp progression-tracking mitigation slow-attack slow-attacker-identification

Configure and enable TCP Progression Tracking Identification for Slow Attacker

slow-attacker-identification Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	slow-attacker-identification
Element URI	/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack/slow-attacker-identification
Element Attributes	slow-attacker-identification_attributes
Partition Visibility	shared
Schema	`slow-attacker-identification schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack/slow-attacker-identification

slow-attacker-identification attributes

```
POST /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/slow-attack/slow-
↪attacker-identification
Payload:
{
    "slow-attacker-identification": {
        "enable-identification": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack/slow-attacker-identification

slow-attacker-identification attributes

```
GET /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/slow-attack/slow-
↪attacker-identification
Reponse:
{
    "slow-attacker-identification": {
        "enable-identification": 1,
```

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```
        "active-connection": 3,
        "bad-connection": 75,
        "uuid": "a1bf7d76-0892-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/
↪slow-attack/slow-attacker-identification"
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack/slow-attacker-identification

slow-attacker-identification attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack/slow-attacker-identification

slow-attacker-identification attributes

```
PUT /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/slow-attack/slow-
↪attacker-identification
Payload:
{
    "slow-attacker-identification": {
        "enable-identification": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/slow-attack/slow-attacker-identification

slow-attacker-identification attributes

```
DELETE /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/slow-attack/
↪slow-attacker-identification
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

slow-attacker-identification attributes

active-connection

Description Set the minimum tracking active connection to start identifying slow attacker, default value is 3

Type: number

Range: 1-65535

Default: 3

bad-connection

Description Set the maximum percentage of slow connection (per source), default value is 75

Type: number

Range: 1-100

Default: 75

enable-identification

Description Progression tracking will identify slow attacker and blacklist it based on the config value

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.594 ddos zone-template tcp progression-tracking mitigation time-window-tracking

Configure and enable TCP Progression Tracking Mitigation per Time Window

time-window-tracking Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	time-window-tracking
Element URI	/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/time-window-tracking
Element Attributes	time-window-tracking_attributes
Partition Visibility	shared
Schema	`time-window-tracking schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/time-window-tracking

time-window-tracking attributes

```
POST /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/time-window-
↪tracking
Payload:
{
    "time-window-tracking": {
        "progression-tracking-win-enabled": "enable-check",
        "window-sent-max": 1
    }
}
```

Get Object

GET

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/time-window-tracking

time-window-tracking attributes

```
GET /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/time-window-
↪tracking
Reponse:
{
    "time-window-tracking": {
        "progression-tracking-win-enabled": "enable-check",
        "window-sent-max": 1,
        "progression-tracking-windows-action": "drop",
        "uuid": "b7e05ed6-0892-11f0-b674-001fa04507c0",
        "a10-url": "/axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/
↪time-window-tracking"
```

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```
    }
}
```

Modify Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/time-window-tracking

time-window-tracking attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/time-window-tracking

time-window-tracking attributes

```
PUT /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/time-window-
↪tracking
Payload:
{
    "time-window-tracking": {
        "progression-tracking-win-enabled": "enable-check",
        "window-sent-max": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/mitigation/time-window-tracking

time-window-tracking attributes

```
DELETE /axapi/v3/ddos/zone-template/tcp/a/progression-tracking/mitigation/time-window-
↪tracking
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

time-window-tracking attributes

progression-tracking-win-enabled

Description 'enable-check': Enable Progression Tracking per Time Window;

Type: string

Supported Values: enable-check

Default: enable-check

progression-tracking-windows-action

Description 'drop': Drop packets for progression tracking violation exceed (Default); 'blacklist-src': Blacklist-src for progression tracking violation exceed;

Type: string

Supported Values: drop, blacklist-src

Default: drop

Mutual Exclusion: progression-tracking-windows-action and progression-tracking-windows-action-list-name are mutually exclusive

progression-tracking-windows-action-list-name

Description Configure action-list to take when progression tracking violation exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: progression-tracking-windows-action-list-name and progression-tracking-windows-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

window-rcvd-max

Description Set the maximum total received byte

Type: number

Range: 1-65535

window-rcvd-min

Description Set the minimum total received byte

Type: number

Range: 1-65535

window-rcvd-sent-ratio-max

Description Set the maximum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-rcvd-sent-ratio-min

Description Set the minimum received to sent ratio (in unit of 0.1% [1:1000])

Type: number

Range: 1-65535

window-sent-max

Description Set the maximum total sent byte

Type: number

Range: 1-65535

window-sent-min

Description Set the minimum total sent byte

Type: number

Range: 1-65535

window-violation

Description Set the violation threshold

Type: number

Range: 1-255

2.33.595 ddos zone-template tcp progression-tracking profiling

Configure and enable TCP Progression Tracking Profiling

profiling Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	profiling
Element URI	/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/profiling
Element Attributes	profiling_attributes
Partition Visibility	shared
Schema	`profiling schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/profiling

profiling attributes

Get Object

GET

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/profiling

profiling attributes

Modify Object

POST

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/profiling

profiling attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/profiling

profiling attributes

Delete Object

DELETE

/axapi/v3/ddos/zone-template/tcp/{name}/progression-tracking/profiling

profiling attributes

profiling attributes

profiling-connection-life-model

Description Enable auto-config progression tracking learning for connection model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-request-response-model

Description Enable auto-config progression tracking learning for request response model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

profiling-time-window-model

Description Enable auto-config progression tracking learning for time window model

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.33.596 ddos zone-template udp

UDP template configuration

udp Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*udp-list*
Collection URI	/axapi/v3/ddos/zone-template/udp
Element Name	udp
Element URI	/axapi/v3/ddos/zone-template/udp/{name}
Element Attributes	udp_attributes
Partition Visibility	shared
Schema	`udp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/udp

udp attributes

```
POST /axapi/v3/ddos/zone-template/udp/
Payload:
{
    "udp": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/ddos/zone-template/udp

udp attributes

Get Object

GET

/axapi/v3/ddos/zone-template/udp/{name}

udp attributes

```
GET /axapi/v3/ddos/zone-template/udp/a
Reponse:
{
    "udp": {
        "name": "a",
        "age": 2,
        "per-conn-rate-interval": "1sec",
        "filter-match-type": "default",
        "spoof-detect-min-delay-interval": "1sec",
        "token-authentication": 0,
        "token-authentication-salt-prefix": 0,
        "previous-salt-timeout": 1,
        "token-authentication-public-address": 0,
        "known-resp-src-port-cfg": {
            "known-resp-src-port": 0
        },
        "ntp-monlist-cfg": {
            "ntp-monlist": 0
        },
        "uuid": "f47e4470-0892-11f0-b674-001fa04507c0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/ddos/zone-template/udp/a"
    }
}
```

Get List

GET

/axapi/v3/ddos/zone-template/udp

udp-list

Modify Object

POST

/axapi/v3/ddos/zone-template/udp/{name}

udp attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/udp/{name}

udp attributes

```
PUT /axapi/v3/ddos/zone-template/udp/a
Payload:
{
    "udp": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/ddos/zone-template/udp

udp-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/udp/{name}

udp attributes

```
DELETE /axapi/v3/ddos/zone-template/udp/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

udp-list

udp-list is **JSON List** of *udp attributes*

udp-list : [

{ *udp attributes* },

{ *udp attributes* },

...

]

udp attributes

age

Description Configure session age(in minutes) for UDP sessions

Type: number

Range: 1-63

Default: 2

filter-list

Type: List

Reference Object: */axapi/v3/ddos/zone-template/udp/{name}/filter/{udp-filter-name}*

filter-match-type

Description 'default': Stop matching on drop/blacklist action; 'stop-on-first-match': Stop matching on first match;

Type: string

Supported Values: default, stop-on-first-match

Default: default

known-resp-src-port-cfg

Description: known-resp-src-port-cfg is a **JSON Block**. Please see below for *known-resp-src-port-cfg*

Type: Object

max-payload-size-cfg

Description: max-payload-size-cfg is a **JSON Block**. Please see below for *max-payload-size-cfg*

Type: Object

min-payload-size-cfg

Description: min-payload-size-cfg is a **JSON Block**. Please see below for *min-payload-size-cfg*

Type: Object

name

Description DDOS UDP Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ntp-monlist-cfg

Description: ntp-monlist-cfg is a **JSON Block**. Please see below for *ntp-monlist-cfg*

Type: Object

per-conn-pkt-rate-cfg

Description: per-conn-pkt-rate-cfg is a **JSON Block**. Please see below for *per-conn-pkt-rate-cfg*

Type: Object

per-conn-rate-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

previous-salt-timeout

Description Token-Authentication previous salt-prefix timeout in minutes, default is 1 min

Type: number

Range: 1-10080

Default: 1

public-ipv4-addr

Description IP address

Type: string

Format: ipv4-address

public-ipv6-addr

Description IPV6 address

Type: string

Format: ipv6-address

spoof-detect-fail-action

Description 'drop': Drop packets (Default); 'blacklist-src': Blacklist-src for spoof-detect fail;

Type: string

Supported Values: drop, blacklist-src

Mutual Exclusion: spoof-detect-fail-action and spoof-detect-fail-action-list-name are mutually exclusive

spoof-detect-fail-action-list-name

Description Configure action-list to take for failing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: spoof-detect-fail-action-list-name and spoof-detect-fail-action are mutually exclusive

spoof-detect-min-delay

Description Optional minimum delay between UDP retransmits for authentication to pass, unit is specified by min-delay-interval

Type: number

Range: 1-80

spoof-detect-min-delay-interval

Description '100ms': 100ms; '1sec': 1sec;

Type: string

Supported Values: 100ms, 1sec

Default: 1sec

spoof-detect-pass-action

Description 'authenticate-src': authenticate-src (Default);

Type: string

Supported Values: authenticate-src

Mutual Exclusion: spoof-detect-pass-action and spoof-detect-pass-action-list-name are mutually exclusive

spoof-detect-pass-action-list-name

Description Configure action-list to take for passing the authentication

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: spoof-detect-pass-action-list-name and spoof-detect-pass-action are mutually exclusive

spoof-detect-retry-timeout

Description Timeout in seconds

Type: number

Range: 1-31

token-authentication

Description Enable Token Authentication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-formula

Description 'md5_Salt-SrcIp-SrcPort-DstIp-DstPort': md5 of Salt-SrcIp-SrcPort-DstIp-DstPort; 'md5_Salt-DstIp-DstPort': md5 of Salt-DstIp-DstPort; 'md5_Salt-SrcIp-DstIp': md5 of Salt-SrcIp-DstIp; 'md5_Salt-SrcPort-DstPort': md5 of Salt-SrcPort-DstPort; 'md5_Salt-UintDstIp-DstPort': Using the uint value of IP for md5 of Salt-DstIp-DstPort; 'sha1_Salt-SrcIp-SrcPort-DstIp-DstPort': sha1 of Salt-SrcIp-SrcPort-DstIp-DstPort; 'sha1_Salt-DstIp-DstPort': sha1 of Salt-DstIp-DstPort; 'sha1_Salt-SrcIp-DstIp': sha1 of Salt-SrcIp-DstIp; 'sha1_Salt-SrcPort-DstPort': sha1 of Salt-SrcPort-DstPort; 'sha1_Salt-UintDstIp-DstPort': Using the uint value of IP for sha1 of Salt-DstIp-DstPort;

Type: string

Supported Values: md5_Salt-SrcIp-SrcPort-DstIp-DstPort, md5_Salt-DstIp-DstPort, md5_Salt-SrcIp-DstIp, md5_Salt-SrcPort-DstPort, md5_Salt-UintDstIp-DstPort, sha1_Salt-SrcIp-SrcPort-DstIp-DstPort, sha1_Salt-DstIp-DstPort, sha1_Salt-SrcIp-DstIp, sha1_Salt-SrcPort-DstPort, sha1_Salt-UintDstIp-DstPort

token-authentication-hw-assist-disable

Description token-authentication disable hardware assistance

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-public-address

Description The server public IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-salt-prefix

Description token-authentication salt-prefix

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

token-authentication-salt-prefix-curr

Description

Type: number

Range: 1-4294967295

token-authentication-salt-prefix-prev

Description

Type: number

Range: 1-4294967295

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ntp-monlist-cfg

Specification	Value
Type	*object*

ntp-monlist

Description Take action for ntp monlist request/response

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ntp-monlist-action

Description 'drop': Drop packets for ntp-monlist (Default); 'blacklist-src': Blacklist-src for ntp-monlist; 'ignore': Ignore ntp-monlist;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: ntp-monlist-action and ntp-monlist-action-list-name are mutually exclusive

ntp-monlist-action-list-name

Description Configure action-list to take for ntp-monlist

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: ntp-monlist-action-list-name and ntp-monlist-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

known-resp-src-port-cfg

Specification	Value
Type	*object*

exclude-src-resp-port

Description Exclude src port equal to dst port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

known-resp-src-port

Description Take action if src-port is less than 1024

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

known-resp-src-port-action

Description 'drop': Drop packets from well-known src-port(Default); 'blacklist-src': Blacklist-src from well-known src-port; 'ignore': Ignore well-known src-port;

Type: string

Supported Values: drop, blacklist-src, ignore

Mutual Exclusion: known-resp-src-port-action and known-resp-src-port-action-list-name are mutually exclusive

known-resp-src-port-action-list-name

Description Configure action-list to take for well-known src-port

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: known-resp-src-port-action-list-name and known-resp-src-port-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-pkt-rate-cfg

Specification	Value
Type	*object*

per-conn-pkt-rate-action

Description 'drop': Drop packets for per-conn-pkt-rate exceed (Default); 'blacklist-src': help Blacklist-src for per-conn-pkt-rate exceed; 'ignore': Ignore per-conn-pkt-rate-exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: per-conn-pkt-rate-action and per-conn-pkt-rate-action-list-name are mutually exclusive

per-conn-pkt-rate-action-list-name

Description Configure action-list to take for per-conn-pkt-rate exceed

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: per-conn-pkt-rate-action-list-name and per-conn-pkt-rate-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

per-conn-pkt-rate-limit

Description Packet rate limit per connection per rate-interval

Type: number

Range: 1-16000000

min-payload-size-cfg

Specification	Value
Type	*object*

min-payload-size

Description Minimum UDP payload size for each single packet

Type: number

Range: 1-1470

min-payload-size-action

Description 'drop': Drop packets for min-payload-size (Default); 'blacklist-src': Blacklist-src for min-payload-size; 'ignore': Do nothing for min-payload-size exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: min-payload-size-action and min-payload-size-action-list-name are mutually exclusive

min-payload-size-action-list-name

Description Configure action-list to take for min-payload-size exceed

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

Mutual Exclusion: min-payload-size-action-list-name and min-payload-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

filter-list

Specification	Value
Type	*list*
Block object keys	

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Default: drop

Mutual Exclusion: udp-filter-action and udp-filter-action-list-name are mutually exclusive

udp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp-filter-action-list-name and udp-filter-action are mutually exclusive

udp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

max-payload-size-cfg

Specification	Value
Type	*object*

max-payload-size

Description Maximum UDP payload size for each single packet

Type: number

Range: 1-1470

max-payload-size-action

Description 'drop': Drop packets for max-payload-size exceed (Default); 'blacklist-src': Blacklist-src for max-payload-size exceed; 'ignore': Do nothing for max-payload-size exceed;

Type: string

Supported Values: drop, blacklist-src, ignore

Default: drop

Mutual Exclusion: max-payload-size-action and max-payload-size-action-list-name are mutually exclusive

max-payload-size-action-list-name

Description Configure action-list to take for max-payload-size exceed

Type: string

Format: string-rlx

Maximum Length: 64 characters

Maximum Length: 1 characters

Mutual Exclusion: max-payload-size-action-list-name and max-payload-size-action are mutually exclusive

Reference Object: */axapi/v3/ddos/action-list*

2.33.597 ddos zone-template udp filter

UDP Filter Configuration

filter Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*udp-filter-name*
Collection Name	*filter-list*
Collection URI	/axapi/v3/ddos/zone-template/udp/{name}/filter
Element Name	filter
Element URI	/axapi/v3/ddos/zone-template/udp/{name}/filter/{udp-filter-name}
Element Attributes	filter_attributes
Partition Visibility	shared
Schema	`filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/ddos/zone-template/udp/{name}/filter

filter attributes

Create List

POST

/axapi/v3/ddos/zone-template/udp/{name}/filter

filter attributes

Get Object

GET

/axapi/v3/ddos/zone-template/udp/{name}/filter/{udp-filter-name}

filter attributes

Get List

GET

/axapi/v3/ddos/zone-template/udp/{name}/filter

filter-list

Modify Object

POST

/axapi/v3/ddos/zone-template/udp/{name}/filter/{udp-filter-name}

filter attributes

Replace Object

PUT

/axapi/v3/ddos/zone-template/udp/{name}/filter/{udp-filter-name}

filter attributes

Replace List

PUT

/axapi/v3/ddos/zone-template/udp/{name}/filter

filter-list

Delete Object

DELETE

/axapi/v3/ddos/zone-template/udp/{name}/filter/{udp-filter-name}

filter attributes

filter-list

filter-list is **JSON List** of *filter attributes*

```
filter-list : [
        { filter attributes },
        { filter attributes },
        ...
    ]
```

filter attributes

byte-offset-filter

Description Filter using Berkeley Packet Filter syntax

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-action

Description 'drop': Drop packets (Default); 'ignore': Take no action; 'blacklist-src': Blacklist-src; 'authenticate-src': Authenticate-src;

Type: string

Supported Values: drop, ignore, blacklist-src, authenticate-src

Default: drop

Mutual Exclusion: udp-filter-action and udp-filter-action-list-name are mutually exclusive

udp-filter-action-list-name

Description Configure action-list to take

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: udp-filter-action-list-name and udp-filter-action are mutually exclusive

udp-filter-inverse-match

Description Inverse the result of the matching

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp-filter-name

Description

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

udp-filter-regex

Description Regex Expression

Type: string

Format: string-rlx

Maximum Length: 1275 characters

Maximum Length: 1 characters

udp-filter-seq

Description Sequence number

Type: number

Range: 1-200

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.34 debug

Objects:

2.34.1 debug

Debugging functions

debug Specification

Parameter	Value
Type	*operational*
Element Name	debug
Element URI	/axapi/v3/debug
Element Attributes	debug_attributes
Partition Visibility	shared
Schema	`debug schema`

Operations Allowed:

EXECUTE Object

POST

/axapi/v3/debug

debug attributes

debug attributes

a10support

Description: a10support is a **JSON Block**. Please see below for *a10support*

Type: Object

Reference Object: */axapi/v3/debug/a10support*

aflow

Description: aflow is a **JSON Block**. Please see below for *aflow*

Type: Object

Reference Object: */axapi/v3/debug/aflow*

appcls

Description: appcls is a **JSON Block**. Please see below for *appcls*

Type: Object

Reference Object: */axapi/v3/debug/appcls*

auth

Description: auth is a **JSON Block**. Please see below for *auth*

Type: Object

Reference Object: */axapi/v3/debug/auth*

backtrace

Description: backtrace is a **JSON Block**. Please see below for *backtrace*

Type: Object

Reference Object: */axapi/v3/debug/backtrace*

bgp

Description: bgp is a **JSON Block**. Please see below for *bgp*

Type: Object

Reference Object: */axapi/v3/debug/bgp*

bridge-vlan-group

Description: bridge-vlan-group is a **JSON Block**. Please see below for *bridge-vlan-group*

Type: Object

Reference Object: */axapi/v3/debug/bridge-vlan-group*

cache

Description: cache is a **JSON Block**. Please see below for *cache*

Type: Object

Reference Object: */axapi/v3/debug/cache*

cgnv6

Description: cgnv6 is a **JSON Block**. Please see below for *cgnv6*

Type: Object

Reference Object: */axapi/v3/debug/cgnv6*

cli

Description: cli is a **JSON Block**. Please see below for *cli*

Type: Object

Reference Object: */axapi/v3/debug/cli*

conn-reuse

Description: conn-reuse is a **JSON Block**. Please see below for *conn-reuse*

Type: Object

Reference Object: */axapi/v3/debug/conn-reuse*

controller

Description: controller is a **JSON Block**. Please see below for *controller*

Type: Object

Reference Object: */axapi/v3/debug/controller*

cpu

Description: cpu is a **JSON Block**. Please see below for *cpu*

Type: Object

Reference Object: */axapi/v3/debug/cpu*

ddos

Description: ddos is a **JSON Block**. Please see below for *ddos*

Type: Object

Reference Object: */axapi/v3/debug/ddos*

diameter

Description: diameter is a **JSON Block**. Please see below for *diameter*

Type: Object

Reference Object: */axapi/v3/debug/diameter*

dns-cache

Description: dns-cache is a **JSON Block**. Please see below for *dns-cache*

Type: Object

Reference Object: */axapi/v3/debug/dns-cache*

dns-rrl

Description: dns-rrl is a **JSON Block**. Please see below for *dns-rrl*

Type: Object

Reference Object: */axapi/v3/debug/dns-rrl*

drop

Description: drop is a **JSON Block**. Please see below for *drop*

Type: Object

Reference Object: */axapi/v3/debug/drop*

dumpthread

Description: dumpthread is a **JSON Block**. Please see below for *dumpthread*

Type: Object

Reference Object: */axapi/v3/debug/dumpthread*

es

Description: es is a **JSON Block**. Please see below for *es*

Type: Object

Reference Object: */axapi/v3/debug/es*

fix

Description: fix is a **JSON Block**. Please see below for *fix*

Type: Object

Reference Object: */axapi/v3/debug/fix*

ftp

Description: ftp is a **JSON Block**. Please see below for *ftp*

Type: Object

Reference Object: */axapi/v3/debug/ftp*

ftp-proxy

Description: ftp-proxy is a **JSON Block**. Please see below for *ftp-proxy*

Type: Object

Reference Object: */axapi/v3/debug/ftp-proxy*

fw

Description: fw is a **JSON Block**. Please see below for *fw*

Type: Object

Reference Object: */axapi/v3/debug/fw*

generic-proxy

Description: generic-proxy is a **JSON Block**. Please see below for *generic-proxy*

Type: Object

Reference Object: */axapi/v3/debug/generic-proxy*

gslb

Description: gslb is a **JSON Block**. Please see below for *gslb*

Type: Object

Reference Object: */axapi/v3/debug/gslb*

gtp

Description: gtp is a **JSON Block**. Please see below for *gtp*

Type: Object

Reference Object: */axapi/v3/debug/gtp*

h323

Description: h323 is a **JSON Block**. Please see below for *h323*

Type: Object

Reference Object: */axapi/v3/debug/h323*

ha

Description: ha is a **JSON Block**. Please see below for *ha*

Type: Object

Reference Object: */axapi/v3/debug/ha*

hc

Description: hc is a **JSON Block**. Please see below for *hc*

Type: Object

Reference Object: */axapi/v3/debug/hc*

hm

Description: hm is a **JSON Block**. Please see below for *hm*

Type: Object

Reference Object: */axapi/v3/debug/hm*

hm-dplane

Description: hm-dplane is a **JSON Block**. Please see below for *hm-dplane*

Type: Object

Reference Object: */axapi/v3/debug/hm-dplane*

http-proxy

Description: http-proxy is a **JSON Block**. Please see below for *http-proxy*

Type: Object

Reference Object: */axapi/v3/debug/http-proxy*

http2

Description: http2 is a **JSON Block**. Please see below for *http2*

Type: Object

Reference Object: */axapi/v3/debug/http2*

hw-accelerate

Description: hw-accelerate is a **JSON Block**. Please see below for *hw-accelerate*

Type: Object

Reference Object: */axapi/v3/debug/hw-accelerate*

hw-compression

Description: hw-compression is a **JSON Block**. Please see below for *hw-compression*

Type: Object

Reference Object: */axapi/v3/debug/hw-compression*

imap-proxy

Description: imap-proxy is a **JSON Block**. Please see below for *imap-proxy*

Type: Object

Reference Object: */axapi/v3/debug/imap-proxy*

imish

Description: imish is a **JSON Block**. Please see below for *imish*

Type: Object

Reference Object: */axapi/v3/debug/imish*

imish-profile

Description: imish-profile is a **JSON Block**. Please see below for *imish-profile*

Type: Object

Reference Object: */axapi/v3/debug/imish-profile*

ip

Description: ip is a **JSON Block**. Please see below for *ip*

Type: Object

Reference Object: */axapi/v3/debug/ip*

ipv6

Description: ipv6 is a **JSON Block**. Please see below for *ipv6*

Type: Object

Reference Object: */axapi/v3/debug/ipv6*

isis

Description: isis is a **JSON Block**. Please see below for *isis*

Type: Object

Reference Object: */axapi/v3/debug/isis*

l2

Description: l2 is a **JSON Block**. Please see below for *l2*

Type: Object

Reference Object: */axapi/v3/debug/l2*

l2-redirect

Description: l2-redirect is a **JSON Block**. Please see below for *l2-redirect*

Type: Object

Reference Object: */axapi/v3/debug/l2-redirect*

l3

Description: l3 is a **JSON Block**. Please see below for *l3*

Type: Object

Reference Object: */axapi/v3/debug/l3*

l4

Description: l4 is a **JSON Block**. Please see below for *l4*

Type: Object

Reference Object: */axapi/v3/debug/l4*

l7

Description: l7 is a **JSON Block**. Please see below for *l7*

Type: Object

Reference Object: */axapi/v3/debug/l7*

l7session

Description: l7session is a **JSON Block**. Please see below for *l7session*

Type: Object

Reference Object: */axapi/v3/debug/l7session*

lacp

Description: lacp is a **JSON Block**. Please see below for *lacp*

Type: Object

Reference Object: */axapi/v3/debug/lacp*

layer2

Description: layer2 is a **JSON Block**. Please see below for *layer2*

Type: Object

Reference Object: */axapi/v3/debug/layer2*

lb

Description: lb is a **JSON Block**. Please see below for *lb*

Type: Object

Reference Object: */axapi/v3/debug/lb*

link-probe

Description: link-probe is a **JSON Block**. Please see below for *link-probe*

Type: Object

Reference Object: */axapi/v3/debug/link-probe*

list_all_cli

Description: list_all_cli is a **JSON Block**. Please see below for *list_all_cli*

Type: Object

Reference Object: */axapi/v3/debug/list_all_cli*

local-log

Description: local-log is a **JSON Block**. Please see below for *local-log*

Type: Object

Reference Object: */axapi/v3/debug/local-log*

logging

Description: logging is a **JSON Block**. Please see below for *logging*

Type: Object

Reference Object: */axapi/v3/debug/logging*

lsn

Description: lsn is a **JSON Block**. Please see below for *lsn*

Type: Object

Reference Object: */axapi/v3/debug/lsn*

management

Description: management is a **JSON Block**. Please see below for *management*

Type: Object

Reference Object: */axapi/v3/debug/management*

mgcp

Description: mgcp is a **JSON Block**. Please see below for *mgcp*

Type: Object

Reference Object: */axapi/v3/debug/mgcp*

migration

Description: migration is a **JSON Block**. Please see below for *migration*

Type: Object

Reference Object: */axapi/v3/debug/migration*

mlb

Description: mlb is a **JSON Block**. Please see below for *mlb*

Type: Object

Reference Object: */axapi/v3/debug/mlb*

monitor

Description: monitor is a **JSON Block**. Please see below for *monitor*

Type: Object

Reference Object: */axapi/v3/debug/monitor*

mqtt

Description: mqtt is a **JSON Block**. Please see below for *mqtt*

Type: Object

Reference Object: */axapi/v3/debug/mqtt*

msg-proxy

Description: msg-proxy is a **JSON Block**. Please see below for *msg-proxy*

Type: Object

Reference Object: */axapi/v3/debug/msg-proxy*

ospf

Description: ospf is a **JSON Block**. Please see below for *ospf*

Type: Object

Reference Object: */axapi/v3/debug/ospf*

packet

Description: packet is a **JSON Block**. Please see below for *packet*

Type: Object

Reference Object: */axapi/v3/debug/packet*

packet-capture

Description: packet-capture is a **JSON Block**. Please see below for *packet-capture*

Type: Object

Reference Object: */axapi/v3/debug/packet-capture*

polltech-enable

Description: polltech-enable is a **JSON Block**. Please see below for *polltech-enable*

Type: Object

Reference Object: */axapi/v3/debug/polltech-enable*

pop3-proxy

Description: pop3-proxy is a **JSON Block**. Please see below for *pop3-proxy*

Type: Object

Reference Object: */axapi/v3/debug/pop3-proxy*

proxy

Description: proxy is a **JSON Block**. Please see below for *proxy*

Type: Object

Reference Object: */axapi/v3/debug/proxy*

quic

Description: quic is a **JSON Block**. Please see below for *quic*

Type: Object

Reference Object: */axapi/v3/debug/quic*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *rate-limit*

Type: Object

Reference Object: */axapi/v3/debug/rate-limit*

rip

Description: rip is a **JSON Block**. Please see below for *rip*

Type: Object

Reference Object: */axapi/v3/debug/rip*

rt

Description: rt is a **JSON Block**. Please see below for *rt*

Type: Object

Reference Object: */axapi/v3/debug/rt*

scaleout

Description: scaleout is a **JSON Block**. Please see below for *scaleout*

Type: Object

Reference Object: */axapi/v3/debug/scaleout*

sctp

Description: sctp is a **JSON Block**. Please see below for *sctp*

Type: Object

Reference Object: */axapi/v3/debug/sctp*

sess

Description: sess is a **JSON Block**. Please see below for *sess*

Type: Object

Reference Object: */axapi/v3/debug/sess*

sip

Description: sip is a **JSON Block**. Please see below for *sip*

Type: Object

Reference Object: */axapi/v3/debug/sip*

smpp

Description: smpp is a **JSON Block**. Please see below for *smpp*

Type: Object

Reference Object: */axapi/v3/debug/smpp*

smtp

Description: smtp is a **JSON Block**. Please see below for *smtp*

Type: Object

Reference Object: */axapi/v3/debug/smtp*

snmp

Description: snmp is a **JSON Block**. Please see below for *snmp*

Type: Object

Reference Object: */axapi/v3/debug/snmp*

ssl

Description: ssl is a **JSON Block**. Please see below for *ssl*

Type: Object

Reference Object: */axapi/v3/debug/ssl*

ssli

Description: ssli is a **JSON Block**. Please see below for *ssli*

Type: Object

Reference Object: */axapi/v3/debug/ssli*

system

Description: system is a **JSON Block**. Please see below for *system*

Type: Object

Reference Object: */axapi/v3/debug/system*

table-sync-event

Description: table-sync-event is a **JSON Block**. Please see below for *table-sync-event*

Type: Object

Reference Object: */axapi/v3/debug/table-sync-event*

tcp

Description: tcp is a **JSON Block**. Please see below for *tcp*

Type: Object

Reference Object: */axapi/v3/debug/tcp*

threat-intel

Description: threat-intel is a **JSON Block**. Please see below for *threat-intel*

Type: Object

Reference Object: */axapi/v3/debug/threat-intel*

tunnel

Description: tunnel is a **JSON Block**. Please see below for *tunnel*

Type: Object

Reference Object: */axapi/v3/debug/tunnel*

vector

Description: vector is a **JSON Block**. Please see below for *vector*

Type: Object

Reference Object: */axapi/v3/debug/vector*

visibility

Description: visibility is a **JSON Block**. Please see below for *visibility*

Type: Object

Reference Object: */axapi/v3/debug/visibility*

vpn

Description: vpn is a **JSON Block**. Please see below for *vpn*

Type: Object

Reference Object: */axapi/v3/debug/vpn*

vtep-error

Description: vtep-error is a **JSON Block**. Please see below for *vtep-error*

Type: Object

Reference Object: */axapi/v3/debug/vtep-error*

vtep-event

Description: vtep-event is a **JSON Block**. Please see below for *vtep-event*

Type: Object

Reference Object: */axapi/v3/debug/vtep-event*

vtep-packet

Description: vtep-packet is a **JSON Block**. Please see below for *vtep-packet*

Type: Object

Reference Object: */axapi/v3/debug/vtep-packet*

waf

Description: waf is a **JSON Block**. Please see below for *waf*

Type: Object

Reference Object: */axapi/v3/debug/waf*

web-category

Description: web-category is a **JSON Block**. Please see below for *web-category*

Type: Object

Reference Object: */axapi/v3/debug/web-category*

lsn

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vtep-error

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

h323

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

imap-proxy

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cgnv6

Specification	Value
Type	*object*

dummy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vpn

Specification	Value
Type	*object*

ike-gateway

Description Specify IKE gateway name (gateway filter name)

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/vpn/ike-gateway*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

strict

Description Only record the logs that can match Ike-gateway name

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lb

Specification	Value
Type	*object*

all

Description Load Balancing debug all switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cfg

Description Load Balancing configuration debug switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

clb

Description Cache Load Balancing debug switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

flow

Description Packet flow debug switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fwlb

Description Firewall Load Balancing debug switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

llb

Description Link Load Balancing debug switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

slb

Description Server Load Balancing debug switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cli

Specification	Value
Type	*object*

all

Description CLI all debug switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

io

Description CLI debug input-output switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

parser

Description CLI debug parser switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

bridge-vlan-group

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fix

Specification	Value
Type	*object*

dummy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cache

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dumpthread

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

gtp

Specification	Value
Type	*object*

level

Description Debug level (Level 1: Errors Level 2: Minimal_info Level 3: Detailed_info)

Type: number

Range: 1-3

Default: 1

packet

Description Debug GTP packet

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mqtt

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

imish-profile

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

appcls

Specification	Value
Type	*object*

level

Description '1': Display critical errors only; '2': Display all unusual results; '3': Display all appcls engine information;

Type: string

Supported Values: 1, 2, 3

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

generic-proxy

Specification	Value
Type	*object*

debug-level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

http-proxy

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

auth

Specification	Value
Type	*object*

authd

Description enable detail authd log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

client-addr

Description Filter SAML logs by client IP address

Type: string

Format: ipv4-address

level

Description '1': Diagnose Problems; '2': Detail packet flow;

Type: string

Supported Values: 1, 2

saml

Description Enable debug SAML authentication logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

saml-sp

Description Filter SAML logs by SAML service provider name (SAML SP name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

username

Description Show the logs of specific username (User name)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

virtual-server

Description Show the logs of specific virtual-server (Virtual-server name)

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

ssl

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

stack

Description Debug TCP stack

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

layer2

Specification	Value
Type	*object*

all

Description Layer2 all debug switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

arp

Description Layer2 debug arp switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

interface

Description Layer2 debug interface switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

misc

Description Layer2 debug misc switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

trace

Description Layer2 debug trace switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vlan

Description Layer2 debug vlan switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

drop

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l7

Specification	Value
Type	*object*

http3

Description: http3 is a **JSON Block**. Please see below for *l7_http3*

Type: Object

Reference Object: */axapi/v3/debug/l7/http3*

l7_http3

Specification	Value
Type	*object*

level

Description Debug level (Level 1-5)

Type: number

Range: 1-5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l4

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vector

Specification	Value
Type	*object*

error

Description Debug logs for vector errors

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

packet

Description Debug logs for vector packet flow

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

trace

Description Debug logs for vector callbacks

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l2

Specification	Value
Type	*object*

mac

Description Debug mac learned packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l3

Specification	Value
Type	*object*

icmp

Description Debug icmp packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

imish

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

msg-proxy

Specification	Value
Type	*object*

dummy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

backtrace

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packet

Specification	Value
Type	*object*

all-ipv4

Description All

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

all-ipv6

Description All

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

all-sctp-ports

Description All

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

all-tcp-ports

Description All

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

all-udp-ports

Description All

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

arp

Description ARP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

count

Description Maximum packets to capture. Default is 3000 (Specify maximum packet number. For unlimited, specify 0)

Type: number

Range: 0-65535

detail

Description Print packet content

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ethernet

Description Ethernet interface number

Type: number

Format: interface

icmp

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

icmpv6

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

interface

Description Interface to debug

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip

Description IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4ad

Description IP Address

Type: string

Format: ipv4-address

ipv6

Description IPV6

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6ad

Description IPV6 Address

Type: string

Format: ipv6-address

l3-protocol

Description Layer 3 protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

l4-protocol

Description Layer 4 protocol

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

neighbor

Description IPv6 Neighbor/Router

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

port-range

Description Port Number

Type: number

Range: 1-65535

sctp

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timestamp

Description Print timestamp instead of jiffies

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

udp

Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve

Description ve number

Type: number

Range: 2-4094

migration

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

es

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

aflow

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ftp

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rate-limit

Specification	Value
Type	*object*

cpu-id

Description Starting From 0

Type: number

Range: 0-60

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

entry-ip

Description Source Address

Type: string

Format: ipv4-address

life-cycle-log

Description Print entry life cycle info

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

metric

Description CPS 0 Uplink 1 Downlink 2 Total 3

Type: number

Range: 0-3

per-pkt-log

Description Print entry info based on code path of each pkt

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

raw-log

Description Print entry info per second

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tpl-id

Description Template ID

Type: number

Range: 0-2147483647

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l2-redirect

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sctp

Specification	Value
Type	*object*

level

Description Debug level (Level 1: Errors Level 2: Minimal_info Level 3: Detailed_info)

Type: number

Range: 1-3

Default: 1

packet

Description Debug SCTP packet

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

link-probe

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vtep-packet

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

proxy

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rt

Specification	Value
Type	*object*

all

Description Routing all debug switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

check

Description ROUTING debug check switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

command

Description Routing debug command switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

monitor

Specification	Value
Type	*object*

all-slots

Description Display debug output of both Master and Blade

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cpuid

Description CPU id to debug (0,1,...)

Type: number

Range: 0-65535

filename

Description Filename to save debug output

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

filesize

Description maximum file size to save debug messages (MB)

Type: number

Range: 1-300

Default: 1

no-stop

Description Donot spawn another rimacli

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timeout

Description timeout to stop debug monitor in minutes

Type: number

Range: 1-9999

Default: 5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging

Specification	Value
Type	*object*

all

Description Logging all debug switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

command

Description Logging debug command switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

error

Description Logging debug error switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

hm-dplane

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

bgp

Specification	Value
Type	*object*

all

Description all debugging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

bfd

Description Bidirectional Forwarding Detection (BFD)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dampening

Description BGP Dampening

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

events

Description BGP events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

filters

Description BGP filters

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fsm

Description BGP Finite State Machine

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

in

Description Inbound updates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

keepalives

Description BGP keepalives

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

nht

Description NHT message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

nsm

Description NSM message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

out

Description Outbound updates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

updates

Description BGP updates

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

web-category

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ospf

Specification	Value
Type	*object*

all

Description: all is a **JSON Block**. Please see below for *ospf_all*

Type: Object

Reference Object: */axapi/v3/debug/ospf/all*

bfd

Description: bfd is a **JSON Block**. Please see below for *ospf_bfd*

Type: Object

Reference Object: */axapi/v3/debug/ospf/bfd*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

events

Description: events is a **JSON Block**. Please see below for *ospf_events*

Type: Object

Reference Object: */axapi/v3/debug/ospf/events*

ifsm

Description: ifsm is a **JSON Block**. Please see below for *ospf_ifsm*

Type: Object

Reference Object: */axapi/v3/debug/ospf/ifsm*

lsa

Description: lsa is a **JSON Block**. Please see below for *ospf_lsa*

Type: Object

Reference Object: */axapi/v3/debug/ospf/lsa*

nfsm

Description: nfsm is a **JSON Block**. Please see below for *ospf_nfsm*

Type: Object

Reference Object: */axapi/v3/debug/ospf/nfsm*

nsm

Description: nsm is a **JSON Block**. Please see below for *ospf_nsm*

Type: Object

Reference Object: */axapi/v3/debug/ospf/nsm*

packet

Description: packet is a **JSON Block**. Please see below for *ospf_packet*

Type: Object

Reference Object: */axapi/v3/debug/ospf/packet*

route

Description: route is a **JSON Block**. Please see below for *ospf_route*

Type: Object

Reference Object: */axapi/v3/debug/ospf/route*

ospf_all

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ospf_ifsm

Specification	Value
Type	*object*

events

Description IFSM Event Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

status

Description IFSM Status Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timers

Description IFSM Timer Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ospf_lsa

Specification	Value
Type	*object*

flooding

Description LSA Flooding

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

gererate

Description LSA Generation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

install

Description LSA Installation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

maxage

Description LSA MaxAge processing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

refresh

Description LSA Refreshment

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ospf_route

Specification	Value
Type	*object*

ase

Description External route calculation information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ia

Description Inter-Area route calculation information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

install

Description Route installation information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

spf

Description SPF calculation information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ospf_bfd

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ospf_nfsm

Specification	Value
Type	*object*

events

Description NFSM Event Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

status

Description NFSM Status Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timers

Description NFSM Timer Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ospf_packet

Specification	Value
Type	*object*

dd

Description OSPFv3 Database Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detail

Description Detail information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

hello

Description OSPFv3 Hello

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ls-ack

Description OSPFv3 Link State Acknowledgment

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ls-request

Description OSPFv3 Link State Request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ls-update

Description OSPFv3 Link State Update

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

recv

Description Packet received

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

send

Description Packet sent

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ospf_events

Specification	Value
Type	*object*

abr

Description OSPF ABR events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

asbr

Description OSPF ASBR events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

os

Description OS events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

router

Description Other router events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vlink

Description Virtual-Link event

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ospf_nsm

Specification	Value
Type	*object*

interface

Description NSM interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

redistribute

Description NSM redistribute

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

diameter

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

table-sync-event

Specification	Value
Type	*object*

all

Description all Event Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: all,mac, arp, nd6, fibv4, and fibv6 are mutually exclusive

arp

Description ARP Event Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: arp,all, mac, nd6, fibv4, and fibv6 are mutually exclusive

fibv4

Description IPv4 FIB Event Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: fibv4,all, mac, arp, nd6, and fibv6 are mutually exclusive

fibv6

Description IPv6 FIB Event Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: fibv6,all, mac, arp, nd6, and fibv4 are mutually exclusive

mac

Description MAC Event Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: mac,all, arp, nd6, fibv4, and fibv6 are mutually exclusive

nd6

Description ND6 Event Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: nd6,all, mac, arp, fibv4, and fibv6 are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

a10support

Specification	Value
Type	*object*

duration

Description Duration in minutes

Type: number

Range: 1-10080

Default: 2

password

Description Password to be set

Type: string

Format: password

Maximum Length: 24 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssli

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

gslb

Specification	Value
Type	*object*

extended

Description Debug for additional info

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

glname

Description Debug for matched Geo-location

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

group

Description: group is a **JSON Block**. Please see below for *gslb_group*

Type: Object

Reference Object: */axapi/v3/debug/gslb/group*

id

Description Specify ID

Type: number

Range: 0-128

Default: 0

ip-addr

Description Debug for matched IP address

Type: string

Format: ipv4-address

ipv6-addr

Description Debug for matched IPv6 address

Type: string

Format: ipv6-address

memory

Description Debug GSLB memory

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

one-shot

Description Stop after get 64 states

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

protocol

Description: protocol is a **JSON Block**. Please see below for *gslb_protocol*

Type: Object

Reference Object: */axapi/v3/debug/gslb/protocol*

state

Description Keep GSLB state information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

gslb_group

Specification	Value
Type	*object*

all

Description All trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cache

Description Cache trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

event

Description EVENTS trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fsm

Description FSM trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip

Description Remote IP address of GSLB controller of the group

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipc

Description IPC trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

keep-alive

Description KEEPALIVE trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message

Description Debug GSLB group message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-all

Description All messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-control

Description GMP control messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-group

Description GMP group messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-keepalive

Description GMP keepalive messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-notify

Description GMP notify messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-open

Description GMP open messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-query

Description GMP query messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Name of GSLB group

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

normal

Description Normal trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

peer-ipv4

Description Specify remote IPv4 Address

Type: string

Format: ipv4-address

peer-ipv6

Description Specify remote IPv6 Address

Type: string

Format: ipv6-address

timer

Description Timer trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

update

Description Update trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

gslb_protocol

Specification	Value
Type	*object*

active-rdt

Description ARDT trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

all

Description All trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cache

Description Cache trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

event

Description EVENTS trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fsm

Description FSM trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip

Description Specify the remote IP address

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipc

Description IPC trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

keep-alive

Description KEEPALIVE trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message

Description Debug GSLB protocol message

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-all

Description All messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-ardt-query

Description GMP ardt-query messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-ardt-report

Description GMP ardt-report messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-control

Description GMP control messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-keepalive

Description GMP keepalive messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-notify

Description GMP notify messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-open

Description GMP open messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-query

Description GMP query messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

message-update

Description GMP update messages

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Specify the slb device name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

normal

Description Normal trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

peer-ipv4

Description Specify remote IPv4 Address

Type: string

Format: ipv4-address

peer-ipv6

Description Specify remote IPv6 Address

Type: string

Format: ipv6-address

timer

Description Timer trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

update

Description Update trace information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

hw-compression

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sess

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

management

Specification	Value
Type	*object*

all

Description management all debug switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

system

Description management system debug switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

waf

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

snmp

Specification	Value
Type	*object*

all

Description SNMP all debug switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

error

Description SNMP debug error switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

event

Description SNMP debug event switch

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

system

Specification	Value
Type	*object*

debug_system_enum

Description 'all': System all debug switch; 'aaa': System debug aaa switch; 'import-export': System debug import or export switch; 'ssl': System debug ssl switch;

Type: string

Supported Values: all, aaa, import-export, ssl

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

quic

Specification	Value
Type	*object*

dummy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

level

Description Debug level (Level 1-5)

Type: number

Range: 1-5

tls

Description QUIC TLS

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tls-level

Description Debug level (Level 1-5)

Type: number

Range: 1-5

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6

Specification	Value
Type	*object*

ospf

Description: ospf is a **JSON Block**. Please see below for *ipv6_ospf*

Type: Object

Reference Object: */axapi/v3/debug/ipv6/ospf*

rip

Description: rip is a **JSON Block**. Please see below for *ipv6_rip*

Type: Object

Reference Object: */axapi/v3/debug/ipv6/rip*

ipv6_ospf

Specification	Value
Type	*object*

all

Description: all is a **JSON Block**. Please see below for *ipv6_ospf_all*

Type: Object

Reference Object: */axapi/v3/debug/ipv6/ospf/all*

bfd

Description: bfd is a **JSON Block**. Please see below for *ipv6_ospf_bfd*

Type: Object

Reference Object: */axapi/v3/debug/ipv6/ospf/bfd*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

events

Description: events is a **JSON Block**. Please see below for *ipv6_ospf_events*

Type: Object

Reference Object: */axapi/v3/debug/ipv6/ospf/events*

ifsm

Description: ifsm is a **JSON Block**. Please see below for *ipv6_ospf_ifsm*

Type: Object

Reference Object: */axapi/v3/debug/ipv6/ospf/ifsm*

lsa

Description: lsa is a **JSON Block**. Please see below for *ipv6_ospf_lsa*

Type: Object

Reference Object: */axapi/v3/debug/ipv6/ospf/lsa*

nfsm

Description: nfsm is a **JSON Block**. Please see below for *ipv6_ospf_nfsm*

Type: Object

Reference Object: */axapi/v3/debug/ipv6/ospf/nfsm*

nsm

Description: nsm is a **JSON Block**. Please see below for *ipv6_ospf_nsm*

Type: Object

Reference Object: */axapi/v3/debug/ipv6/ospf/nsm*

packet

Description: packet is a **JSON Block**. Please see below for *ipv6_ospf_packet*

Type: Object

Reference Object: */axapi/v3/debug/ipv6/ospf/packet*

route

Description: route is a **JSON Block**. Please see below for *ipv6_ospf_route*

Type: Object

Reference Object: */axapi/v3/debug/ipv6/ospf/route*

ipv6_ospf_all

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6_ospf_ifsm

Specification	Value
Type	*object*

events

Description IFSM Event Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

status

Description IFSM Status Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timers

Description IFSM Timer Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6_ospf_lsa

Specification	Value
Type	*object*

flooding

Description LSA Flooding

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

gererate

Description LSA Generation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

install

Description LSA Installation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

maxage

Description LSA MaxAge processing

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

refresh

Description LSA Refreshment

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6_ospf_route

Specification	Value
Type	*object*

ase

Description External route calculation information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ia

Description Inter-Area route calculation information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

install

Description Route installation information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

spf

Description SPF calculation information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6_ospf_bfd

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6_ospf_nfsm

Specification	Value
Type	*object*

events

Description NFSM Event Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

status

Description NFSM Status Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timers

Description NFSM Timer Information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6_ospf_packet

Specification	Value
Type	*object*

dd

Description OSPFv3 Database Description

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detail

Description Detail information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

hello

Description OSPFv3 Hello

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ls-ack

Description OSPFv3 Link State Acknowledgment

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ls-request

Description OSPFv3 Link State Request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ls-update

Description OSPFv3 Link State Update

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

recv

Description Packet received

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

send

Description Packet sent

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6_ospf_events

Specification	Value
Type	*object*

abr

Description OSPF ABR events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

asbr

Description OSPF ASBR events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

os

Description OS events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

router

Description Other router events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vlink

Description Virtual-Link event

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6_ospf_nsm

Specification	Value
Type	*object*

interface

Description NSM interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

redistribute

Description NSM redistribute

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ipv6_rip

Specification	Value
Type	*object*

all

Description Enable all debugging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detail

Description Detailed information display

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

events

Description RIPng events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

nsm

Description RIPng and NSM communication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

packet

Description RIPng packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

recv

Description RIPng receive packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

send

Description RIPng send packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

http2

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ftp-proxy

Specification	Value
Type	*object*

dummy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

smtp

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

visibility

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

xflow

Description debug xflow monitoring

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

controller

Specification	Value
Type	*object*

anomaly

Description Dump per-request in anomaly cases only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

app-svc-id

Description Application service id (virtual-server_port_protocol)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

error

Description Debug logs for controller (error)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logd-audit-export

Description Debug logs for controller (logd-audit-export)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logd-syslog-export

Description Debug logs for controller (logd-syslog-export)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

metrics

Description Debug logs for controller (metrics)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

object-uuid

Description UUID of the object to filter

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

per-connection

Description Debug logs for controller (per-connection)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per-request

Description Debug logs for controller (per-request)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

registration

Description Debug logs for controller (registration)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uri

Description URI of the object to filter

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pop3-proxy

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

hm

Specification	Value
Type	*object*

level

Description Debug level (Level 1-3)

Type: number

Range: 1-3

method-type

Description 'icmp': ICMP type; 'tcp': TCP type; 'udp': UDP type; 'ftp': FTP type; 'http': HTTP type; 'snmp': SNMP type; 'smtp': SMTP type; 'dns': DNS type; 'dns-tcp': DNS TCP type; 'pop3': POP3 type; 'imap': IMAP type; 'sip': SIP type; 'sip-tcp': SIP TCP type; 'radius': RADIUS type; 'ldap': LDAP type; 'rtsp': RTSP type; 'kerberos-kdc': Kerberos KDC type; 'database': DATABASE type; 'external': EXTERNAL type; 'https': HTTPS type; 'ntp': NTP type; 'compound': Compound type;

Type: string

Supported Values: icmp, tcp, udp, ftp, http, snmp, smtp, dns, dns-tcp, pop3, imap, sip, sip-tcp, radius, ldap, rtsp, kerberos-kdc, database, external, https, ntp, compound

pin-uid

Description Debug Pin Unique Id

Type: number

Range: 1-2000000000

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

hc

Specification	Value
Type	*object*

anomaly

Description Dump per-request in anomaly cases only

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

app-svc-id

Description Application service id (virtual-server_port_protocol)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

error

Description Debug logs for harmony controller (error)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logd-audit-export

Description Debug logs for harmony controller (logd-audit-export)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

logd-syslog-export

Description Debug logs for harmony controller (logd-syslog-export)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

metrics

Description Debug logs for harmony controller (metrics)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

object-uuid

Description UUID of the object to filter

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

per-connection

Description Debug logs for harmony controller (per-connection)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

per-request

Description Debug logs for harmony controller (per-request)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

registration

Description Debug logs for harmony controller (registration)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uri

Description URI of the object to filter

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

scaleout

Specification	Value
Type	*object*

config

Description Debug logs for scaleout config change

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

debug-level

Description Debug level (Level 1-3)

Type: number

Range: 1-3

event

Description Debug logs for scaleout events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

packet

Description Debug logs for scaleout packet flow

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

session-sync

Description Debug logs for scaleout session sync events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ha

Specification	Value
Type	*object*

debug-level

Description Debug level (Level 1-7)

Type: number

Range: 1-7

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mlb

Specification	Value
Type	*object*

dummy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

isis

Specification	Value
Type	*object*

all

Description Enable all debugging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

bfd

Description Bidirectional Forwarding Detection (BFD)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

events

Description IS-IS Events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ifsm

Description IS-IS Interface Finite State Machine

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

lsp

Description IS-IS Link State PDU

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

nfsm

Description IS-IS Neighbor Finite State Machine

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

nsm

Description IS-IS NSM information

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

pdu

Description IS-IS Protocol Data Unit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

spf

Description IS-IS SPF Calculation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

lacp

Specification	Value
Type	*object*

all

Description all - turn on all debugging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

cli

Description cli - echo commands to console

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detail

Description detail - echo timer start/stop to console

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

event

Description event - echo events to console

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ha

Description ha - echo High availability events to console

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

packet

Description packet - echo packet contents to console

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sync

Description sync - echo synchronization to console

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

timer

Description timer - echo timer expiry to console

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tunnel

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

hw-accelerate

Specification	Value
Type	*object*

dummy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

smpp

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

threat-intel

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

polltech-enable

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ip

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vtep-event

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rip

Specification	Value
Type	*object*

all

Description Enable all debugging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

detail

Description Detailed information display

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

events

Description RIPng events

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

nsm

Description RIPng and NSM communication

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

packet

Description RIPng packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

recv

Description RIPng receive packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

send

Description RIPng send packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ddos

Specification	Value
Type	*object*

control-var

Description Debug DDOS Control Var

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dns-cache

Description Debug DDOS DNS Cache

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

event

Description Debug DDOS event

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

event-filter

Description Set debug DDOS event filter

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

flow-based-detection

Description Debug flow samples based DDOS detection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

progression-tracking-source

Description Debug DDOS Progression Tracking Slow Attacker Identification Event

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

zbar

Description Debug DDOS zbar event

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sip

Specification	Value
Type	*object*

ACK

Description Method ACK

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

BYE

Description SIP Method BYE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

CANCEL

Description SIP Method CANCEL

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

INFO

Description SIP Method INFO

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

INVITE

Description Method INVITE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

MESSAGE

Description SIP Method MESSAGE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

NOTIFY

Description SIP Method NOTIFY

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

OPTIONS

Description SIP Method OPTIONS

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

PRACK

Description SIP Method PRACK

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

PUBLISH

Description SIP Method PUBLISH

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

REFER

Description SIP Method REFER

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

REGISTER

Description SIP Method REGISTER

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

SUBSCRIBE

Description SIP Method SUBSCRIBE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

UPDATE

Description SIP Method UPDATE

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

method

Description Set filter with SIP method types

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-rrl

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-capture

Specification	Value
Type	*object*

capture-config

Description Specify capture-config. Default all (Capture config)

Type: string

Maximum Length: 255 characters

Maximum Length: 1 characters

count

Description Maximum packets to capture. Default is 10 (Specify maximum packet number. For unlimited, specify 0)

Type: number

Range: 0-1000

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

conn-reuse

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

l7session

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dns-cache

Specification	Value
Type	*object*

level

Description Debug level (Level 1-4)

Type: number

Range: 1-4

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fw

Specification	Value
Type	*object*

ddos

Description FW DDoS detection/mitigation logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

local-log

Specification	Value
Type	*object*

group

Description 'query': Debug local log query (axapi).; 'db-mgr': Debug local log database management.; 'db-write': Debug local log insert local log into database.; 'queue': Debug local log generate and inqueue/dequeue.;

Type: string

Supported Values: query, db-mgr, db-write, queue

level

Description Debug level (Level 1-3. 1:error, 2:notice, 3:Info)

Type: number

Range: 1-3

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

list_all_cli

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

mgcp

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

cpu

Specification	Value
Type	*object*

dumy

Description Dummy

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.34.2 debug aflex

aFleX Script module parameters

aflex Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	aflex
Element URI	/axapi/v3/debug/aflex
Element Attributes	aflex_attributes
Partition Visibility	None
Schema	`aflex schema`

Operations Allowed:

Create Object

POST

/axapi/v3/debug/aflex

aflex attributes

Get Object

GET

/axapi/v3/debug/aflex

aflex attributes

Modify Object

POST

/axapi/v3/debug/aflex

aflex attributes

Delete Object

DELETE

/axapi/v3/debug/aflex

aflex attributes

aflex attributes

2.35 debug-traffic-capture

Objects:

2.35.1 debug-traffic-capture

Debug Traffic Capture Configuration

debug-traffic-capture Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	debug-traffic-capture
Element URI	/axapi/v3/debug-traffic-capture
Element Attributes	debug-traffic-capture_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/debug-traffic-capture/oper
Schema	`debug-traffic-capture schema`

Operations Allowed:

Create Object

POST

/axapi/v3/debug-traffic-capture

debug-traffic-capture attributes

```
POST /axapi/v3/debug-traffic-capture
Payload:
{
    "debug-traffic-capture": {
        "maximum-file-size": 1
    }
}
```

Get Object

GET

/axapi/v3/debug-traffic-capture

debug-traffic-capture attributes

Modify Object

POST

/axapi/v3/debug-traffic-capture

debug-traffic-capture attributes

Replace Object

PUT

/axapi/v3/debug-traffic-capture

debug-traffic-capture attributes

Delete Object

DELETE

/axapi/v3/debug-traffic-capture

debug-traffic-capture attributes

debug-traffic-capture attributes

enable

Description Enable Debug Traffic Capture

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

maximum-file-size

Description Specify pcapng filesize in MB (default 100)

Type: number

Range: 1-150

maximum-history-recordings

Description Number of crashed samples (default 5)

Type: number

Range: 1-10

record-direction-type

Description 'ingress-only': Record all ingress traffic; 'all-direction': Record all ingress and egress traffic;

Type: string

Supported Values: ingress-only, all-direction

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.35.2 debug-traffic-capture oper

Operational Status for the object debug-traffic-capture

debug-traffic-capture Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	debug-traffic-capture
Element URI	/axapi/v3/debug-traffic-capture/oper
Element Attributes	debug-traffic-capture_attributes
Partition Visibility	None
Schema	`debug-traffic-capture schema`

Operations Allowed:

Create Object

POST

/axapi/v3/debug-traffic-capture/oper

debug-traffic-capture attributes

Get Object

GET

/axapi/v3/debug-traffic-capture/oper

debug-traffic-capture attributes

Modify Object

POST

/axapi/v3/debug-traffic-capture/oper

debug-traffic-capture attributes

Replace Object

PUT

/axapi/v3/debug-traffic-capture/oper

debug-traffic-capture attributes

Delete Object

DELETE

/axapi/v3/debug-traffic-capture/oper

debug-traffic-capture attributes

debug-traffic-capture attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

status-info

Type: List

oper_status-info

Specification	Value
Type	*list*
Block object keys	

disk_size

Description

Type: number

end_reason

Description

Type: string

Supported Values: Disabled, Reboot, Crash

end_time

Description

Type: string

name

Description

Type: string

pkt_count

Description

Type: number

pkt_dropped

Description

Type: number

status

Description

Type: string

Supported Values: Done, Capturing

2.36 delete

Objects:

2.36.1 delete

Delete Configuration file

delete Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	delete
Element URI	/axapi/v3/delete
Element Attributes	delete_attributes
Partition Visibility	shared
Schema	`delete schema`

Operations Allowed:

Get Object

GET

/axapi/v3/delete

delete_attributes

delete attributes

auth-jwks

Description: auth-jwks is a **JSON Block**. Please see below for *auth-jwks*

Type: Object

Reference Object: */axapi/v3/delete/auth-jwks*

auth-portal

Description: auth-portal is a **JSON Block**. Please see below for *auth-portal*

Type: Object

Reference Object: */axapi/v3/delete/auth-portal*

auth-portal-image

Description: auth-portal-image is a **JSON Block**. Please see below for *auth-portal-image*

Type: Object

Reference Object: */axapi/v3/delete/auth-portal-image*

auth-saml-idp

Description: auth-saml-idp is a **JSON Block**. Please see below for *auth-saml-idp*

Type: Object

Reference Object: */axapi/v3/delete/auth-saml-idp*

bw-list

Description: bw-list is a **JSON Block**. Please see below for *bw-list*

Type: Object

Reference Object: */axapi/v3/delete/bw-list*

cgnv6

Description: cgnv6 is a **JSON Block**. Please see below for *cgnv6*

Type: Object

Reference Object: */axapi/v3/delete/cgnv6*

ddos

Description: ddos is a **JSON Block**. Please see below for *ddos*

Type: Object

Reference Object: */axapi/v3/delete/ddos*

debug-monitor

Description: debug-monitor is a **JSON Block**. Please see below for *debug-monitor*

Type: Object

Reference Object: */axapi/v3/delete/debug-monitor*

domain-list

Description: domain-list is a **JSON Block**. Please see below for *domain-list*

Type: Object

Reference Object: */axapi/v3/delete/domain-list*

geo-location

Description: geo-location is a **JSON Block**. Please see below for *geo-location*

Type: Object

Reference Object: */axapi/v3/delete/geo-location*

glm-license

Description: glm-license is a **JSON Block**. Please see below for *glm-license*

Type: Object

Reference Object: */axapi/v3/delete/glm-license*

guest-file

Description: guest-file is a **JSON Block**. Please see below for *guest-file*

Type: Object

Reference Object: */axapi/v3/delete/guest-file*

health-external

Description: health-external is a **JSON Block**. Please see below for *health-external*

Type: Object

Reference Object: */axapi/v3/delete/health-external*

health-postfile

Description: health-postfile is a **JSON Block**. Please see below for *health-postfile*

Type: Object

Reference Object: */axapi/v3/delete/health-postfile*

local-uri-file

Description: local-uri-file is a **JSON Block**. Please see below for *local-uri-file*

Type: Object

Reference Object: */axapi/v3/delete/local-uri-file*

ng-waf-custom-page

Description: ng-waf-custom-page is a **JSON Block**. Please see below for *ng-waf-custom-page*

Type: Object

Reference Object: */axapi/v3/delete/ng-waf-custom-page*

partition

Description: partition is a **JSON Block**. Please see below for *partition*

Type: Object

Reference Object: */axapi/v3/delete/partition*

rpz

Description: rpz is a **JSON Block**. Please see below for *rpz*

Type: Object

Reference Object: */axapi/v3/delete/rpz*

service-partition

Description: service-partition is a **JSON Block**. Please see below for *service-partition*

Type: Object

Reference Object: */axapi/v3/delete/service-partition*

startup-config

Description: startup-config is a **JSON Block**. Please see below for *startup-config*

Type: Object

Reference Object: */axapi/v3/delete/startup-config*

threat-intel

Description: threat-intel is a **JSON Block**. Please see below for *threat-intel*

Type: Object

Reference Object: */axapi/v3/delete/threat-intel*

tsig

Description: tsig is a **JSON Block**. Please see below for *tsig*

Type: Object

Reference Object: */axapi/v3/delete/tsig*

web-category

Description: web-category is a **JSON Block**. Please see below for *web-category*

Type: Object

Reference Object: */axapi/v3/delete/web-category*

geo-location

Specification	Value
Type	*object*

all

Description Delete all files

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: all and filename are mutually exclusive

filename

Description Specify file to be deleted

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: filename and all are mutually exclusive

domain-list

Specification	Value
Type	*object*

domain-list-name

Description Specify file to be deleted

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

bw-list

Specification	Value
Type	*object*

file-name

Description Blacklist/whitelist Name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

rpz

Specification	Value
Type	*object*

file-name

Description Response Policy Zone File

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

tsig

Specification	Value
Type	*object*

file-name

Description Transaction SIGnatures Key File

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ddos

Specification	Value
Type	*object*

ddos-script

Description Specify file to be deleted

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

health-external

Specification	Value
Type	*object*

file-name

Description Specify the Program Name

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

auth-portal

Specification	Value
Type	*object*

portal-name

Description Local File Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

local-uri-file

Specification	Value
Type	*object*

file-name

Description Local File Name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

guest-file

Specification	Value
Type	*object*

file-name

Description Guest-File Name

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

ng-waf-custom-page

Specification	Value
Type	*object*

page-name

Description Local File Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

cgnv6

Specification	Value
Type	*object*

filename

Description Specify the port-mapping-file to be deleted

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

fixed-nat

Description Delete fixed-nat port-mapping-file

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

lw-4o6-binding-table-validation-log

Description LW-4O6 Binding Table validation log File

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

lw-filename

Description LW-4O6 Binding Table Validation Log File Name

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

health-postfile

Specification	Value
Type	*object*

file-name

Description Specify the File Name

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

debug-monitor

Specification	Value
Type	*object*

file-name

Description Local File Name

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

auth-portal-image

Specification	Value
Type	*object*

image-name

Description Local File Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

glm-license

Specification	Value
Type	*object*

a10-ti

Description only remove A10 Threat Intel license

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipsec-vpn

Description only remove IPSEC VPN license

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ngwaf

Description only remove NGWAF license

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

qosmos

Description only remove QOSMOS license

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secure-gaming

Description only remove Secure gaming license

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

threatstop

Description only remove ThreatSTOP license

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

webroot

Description only remove Webroot license

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

webroot-ti

Description only remove Webroot Threat Intel license

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

auth-jwks

Specification	Value
Type	*object*

jwk-name

Description Local File Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

partition

Specification	Value
Type	*object*

id

Description Specify unique Partition id

Type: number

partition-name

Description Object partition name

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/partition*

web-category

Specification	Value
Type	*object*

database

Description Delete web-category database

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

threat-intel

Specification	Value
Type	*object*

database

Description 'webroot': Delete webroot module database;

Type: string

Supported Values: webroot

startup-config

Specification	Value
Type	*object*

file-name

Description Local Configuration Profile Name

Type: string

Format: string-rlx

Maximum Length: 31 characters

Maximum Length: 1 characters

service-partition

Specification	Value
Type	*object*

id

Description Specify unique service partition id

Type: number

partition-name

Description Object service partition name

Type: string

Maximum Length: 14 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/service-partition*

auth-saml-idp

Specification	Value
Type	*object*

saml-idp-name

Description Local IDP metadata name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

2.36.2 delete license

Remove softax license

license Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	license
Element URI	/axapi/v3/delete/license
Element Attributes	license_attributes
Partition Visibility	None
Schema	`license schema`

Operations Allowed:

Create Object

POST

/axapi/v3/delete/license

license attributes

Get Object

GET

/axapi/v3/delete/license

license attributes

Modify Object

POST

/axapi/v3/delete/license

license attributes

Delete Object

DELETE

/axapi/v3/delete/license

license attributes

license attributes

2.37 disable-management

Objects:

2.37.1 disable-management

Disable management services

disable-management Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	disable-management
Element URI	/axapi/v3/disable-management
Element Attributes	disable-management_attributes
Partition Visibility	shared
Schema	`disable-management schema`

Operations Allowed:

Get Object

GET

/axapi/v3/disable-management

disable-management_attributes

disable-management attributes

service

Description: service is a **JSON Block**. Please see below for *service*

Type: Object

Reference Object: */axapi/v3/disable-management/service*

service

Specification	Value
Type	*object*

http

Description: http is a **JSON Block**. Please see below for *service_http*

Type: Object

Reference Object: */axapi/v3/disable-management/service/http*

https

Description: https is a **JSON Block**. Please see below for *service_https*

Type: Object

Reference Object: */axapi/v3/disable-management/service/https*

ntp

Description: ntp is a **JSON Block**. Please see below for *service_ntp*

Type: Object

Reference Object: */axapi/v3/disable-management/service/ntp*

ping

Description: ping is a **JSON Block**. Please see below for *service_ping*

Type: Object

Reference Object: */axapi/v3/disable-management/service/ping*

snmp

Description: snmp is a **JSON Block**. Please see below for *service_snmp*

Type: Object

Reference Object: */axapi/v3/disable-management/service/snmp*

ssh

Description: ssh is a **JSON Block**. Please see below for *service_ssh*

Type: Object

Reference Object: */axapi/v3/disable-management/service/ssh*

service_http

Specification	Value
Type	*object*

management

Description Management port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service_snmp

Specification	Value
Type	*object*

management

Description Management port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service_ntp

Specification	Value
Type	*object*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_ntp_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_ntp_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_ntp_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_ping

Specification	Value
Type	*object*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_ping_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_ping_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_ping_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_ssh

Specification	Value
Type	*object*

management

Description Management port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service_https

Specification	Value
Type	*object*

management

Description Management port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.37.2 disable-management service

Disable management services

service Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	service
Element URI	/axapi/v3/disable-management/service
Element Attributes	service_attributes
Partition Visibility	shared
Schema	`service schema`

Operations Allowed:

Get Object

GET

/axapi/v3/disable-management/service

service_attributes

service attributes

http

Description: http is a **JSON Block**. Please see below for *http*

Type: Object

Reference Object: */axapi/v3/disable-management/service/http*

https

Description: https is a **JSON Block**. Please see below for *https*

Type: Object

Reference Object: */axapi/v3/disable-management/service/https*

ntp

Description: ntp is a **JSON Block**. Please see below for *ntp*

Type: Object

Reference Object: */axapi/v3/disable-management/service/ntp*

ping

Description: ping is a **JSON Block**. Please see below for *ping*

Type: Object

Reference Object: */axapi/v3/disable-management/service/ping*

snmp

Description: snmp is a **JSON Block**. Please see below for *snmp*

Type: Object

Reference Object: */axapi/v3/disable-management/service/snmp*

ssh

Description: ssh is a **JSON Block**. Please see below for *ssh*

Type: Object

Reference Object: */axapi/v3/disable-management/service/ssh*

http

Specification	Value
Type	*object*

management

Description Management port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

snmp

Specification	Value
Type	*object*

management

Description Management port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ntp

Specification	Value
Type	*object*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

ntp_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ntp_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

ntp_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ping

Specification	Value
Type	*object*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

ping_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ping_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

ping_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ssh

Specification	Value
Type	*object*

management

Description Management port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

https

Specification	Value
Type	*object*

management

Description Management port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.37.3 disable-management service http

HTTP service

http Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	http
Element URI	/axapi/v3/disable-management/service/http
Element Attributes	http_attributes
Partition Visibility	shared
Schema	`http schema`

Operations Allowed:

Create Object

POST

/axapi/v3/disable-management/service/http

http attributes

Get Object

GET

/axapi/v3/disable-management/service/http

http attributes

Modify Object

POST

/axapi/v3/disable-management/service/http

http attributes

Replace Object

PUT

/axapi/v3/disable-management/service/http

http attributes

Delete Object

DELETE

/axapi/v3/disable-management/service/http

http attributes

http attributes

management

Description Management port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.37.4 disable-management service https

HTTPS service

https Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	https
Element URI	/axapi/v3/disable-management/service/https
Element Attributes	https_attributes
Partition Visibility	shared
Schema	`https schema`

Operations Allowed:

Create Object

POST

/axapi/v3/disable-management/service/https

https attributes

Get Object

GET

/axapi/v3/disable-management/service/https

https attributes

Modify Object

POST

/axapi/v3/disable-management/service/https

https attributes

Replace Object

PUT

/axapi/v3/disable-management/service/https

https attributes

Delete Object

DELETE

/axapi/v3/disable-management/service/https

https attributes

https attributes

management

Description Management port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.37.5 disable-management service ntp

NTP service

ntp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ntp
Element URI	/axapi/v3/disable-management/service/ntp
Element Attributes	ntp_attributes
Partition Visibility	shared
Schema	`ntp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/disable-management/service/ntp

ntp attributes

```
POST /axapi/v3/disable-management/service/ntp
Payload:
{
    "ntp": {
        "management": 1
    }
}
```

Get Object

GET

/axapi/v3/disable-management/service/ntp

ntp attributes

```
GET /axapi/v3/disable-management/service/ntp
Reponse:
{
    "ntp": {
        "management": 1,
        "all-data-intf": 0,
        "uuid": "db3df620-b6be-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/disable-management/service/ntp"
    }
}
```

Modify Object

POST

/axapi/v3/disable-management/service/ntp

ntp attributes

Replace Object

PUT

/axapi/v3/disable-management/service/ntp

ntp attributes

```
PUT /axapi/v3/disable-management/service/ntp
Payload:
{
    "ntp": {
        "management": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/disable-management/service/ntp

ntp attributes

```
DELETE /axapi/v3/disable-management/service/ntp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ntp attributes

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.37.6 disable-management service ping

Ping service

ping Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ping
Element URI	/axapi/v3/disable-management/service/ping
Element Attributes	ping_attributes
Partition Visibility	shared
Schema	`ping schema`

Operations Allowed:

Create Object

POST

/axapi/v3/disable-management/service/ping

ping attributes

Get Object

GET

/axapi/v3/disable-management/service/ping

ping attributes

Modify Object

POST

/axapi/v3/disable-management/service/ping

ping attributes

Replace Object

PUT

/axapi/v3/disable-management/service/ping

ping attributes

Delete Object

DELETE

/axapi/v3/disable-management/service/ping

ping attributes

ping attributes

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.37.7 disable-management service snmp

SNMP service

snmp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	snmp
Element URI	/axapi/v3/disable-management/service/snmp
Element Attributes	snmp_attributes
Partition Visibility	shared
Schema	`snmp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/disable-management/service/snmp

snmp attributes

Get Object

GET

/axapi/v3/disable-management/service/snmp

snmp attributes

Modify Object

POST

/axapi/v3/disable-management/service/snmp

snmp attributes

Replace Object

PUT

/axapi/v3/disable-management/service/snmp

snmp attributes

Delete Object

DELETE

/axapi/v3/disable-management/service/snmp

snmp attributes

snmp attributes

management

Description Management port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.37.8 disable-management service ssh

SSH service

ssh Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ssh
Element URI	/axapi/v3/disable-management/service/ssh
Element Attributes	ssh_attributes
Partition Visibility	shared
Schema	`ssh schema`

Operations Allowed:

Create Object

POST

/axapi/v3/disable-management/service/ssh

ssh attributes

Get Object

GET

/axapi/v3/disable-management/service/ssh

ssh attributes

Modify Object

POST

/axapi/v3/disable-management/service/ssh

ssh attributes

Replace Object

PUT

/axapi/v3/disable-management/service/ssh

ssh attributes

Delete Object

DELETE

/axapi/v3/disable-management/service/ssh

ssh attributes

ssh attributes

management

Description Management port

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.38 dnssec

Objects:

2.38.1 dnssec

Domain Name System Security Extensions commands

dnssec Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dnssec
Element URI	/axapi/v3/dnssec
Element Attributes	dnssec_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/dnssec/oper
Schema	`dnssec schema`

Operations Allowed:

Create Object

POST

/axapi/v3/dnssec

dnssec attributes

```
POST /axapi/v3/dnssec
Payload:
{
```

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```
    "dnssec": {
        "standalone": 1
    }
}
```

Get Object

GET

/axapi/v3/dnssec

dnssec attributes

```
GET /axapi/v3/dnssec
Reponse:
{
    "dnssec": {
        "standalone": 1,
        "uuid": "9e48f212-0905-11f0-84e1-815a0f7f8297",
        "a10-url": "/axapi/v3/dnssec"
    }
}
```

Modify Object

POST

/axapi/v3/dnssec

dnssec attributes

Replace Object

PUT

/axapi/v3/dnssec

dnssec attributes

```
PUT /axapi/v3/dnssec
Payload:
{
    "dnssec": {
        "standalone": 1
    }
}
```

Delete Object

DELETE

/axapi/v3/dnssec

dnssec attributes

```
DELETE /axapi/v3/dnssec
```

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```
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

dnssec attributes

dnskey

Description: dnskey is a **JSON Block**. Please see below for *dnskey*

Type: Object

Reference Object: */axapi/v3/dnssec/dnskey*

ds

Description: ds is a **JSON Block**. Please see below for *ds*

Type: Object

Reference Object: */axapi/v3/dnssec/ds*

key-rollover

Description: key-rollover is a **JSON Block**. Please see below for *key-rollover*

Type: Object

Reference Object: */axapi/v3/dnssec/key-rollover*

sign-zone-now

Description: sign-zone-now is a **JSON Block**. Please see below for *sign-zone-now*

Type: Object

Reference Object: */axapi/v3/dnssec/sign-zone-now*

standalone

Description Run DNSSEC in standalone mode, in GSLB group mode by default

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template-list

Type: List

Reference Object: */axapi/v3/dnssec/template/{dnssec-temp-name}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

key-rollover

Specification	Value
Type	*object*

dnssec-key-type

Description 'ZSK': Zone Signing Key; 'KSK': Key Signing Key;

Type: string

Supported Values: ZSK, KSK

ds-ready-in-parent-zone

Description DS RR is already ready in the parent zone

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ksk-start

Description start KSK rollover in emergency mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-name

Description Specify the name for the DNS zone

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

zsk-start

Description start ZSK rollover in emergency mode

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sign-zone-now

Specification	Value
Type	*object*

zone-name

Description Specify the name for the DNS zone, empty means sign all zones

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

dnskey

Specification	Value
Type	*object*

key-delete

Description Delete the DNSKEY file

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-name

Description DNS zone name of the child zone

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

template-list

Specification	Value
Type	*list*
Block object keys	

algorithm

Description 'RSASHA1': RSASHA1 algorithm; 'RSASHA256': RSASHA256 algorithm; 'RSASHA512': RSASHA512 algorithm;

Type: string

Supported Values: RSASHA1, RSASHA256, RSASHA512

combinations-limit

Description the max number of combinations per RRset (Default value is 31)

Type: number

Range: 1-65535

dnskey-ttl-k

Description The TTL value of DNSKEY RR

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dnskey-ttl-v

Description in seconds, 14400 seconds by default

Type: number

Range: 1-864000

Default: 14400

dnssec-temp-name

Description DNSSEC Template Name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

dnssec-template-ksk

Description: dnssec-template-ksk is a **JSON Block**. Please see below for *template-list_dnssec-template-ksk*

Type: Object

dnssec-template-zsk

Description: dnssec-template-zsk is a **JSON Block**. Please see below for *template-list_dnssec-template-zsk*

Type: Object

enable-nsec3

Description enable NSEC3 support. disabled by default

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

hsm

Description specify the HSM template

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/hsm/template*

return-nsec-on-failure

Description return NSEC/NSEC3 or not on failure case. return by default

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

signature-validity-period-k

Description The period that a signature is valid

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

signature-validity-period-v

Description in days, 10 days by default

Type: number

Range: 5-30

Default: 10

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template-list_dnssec-template-ksk

Specification	Value
Type	*object*

ksk-keysize-k

Description Specify the number of bits in the DNSSEC KSK keys

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ksk-keysize-v

Description Default size is 2048 and must be an exact multiple of 64

Type: number

Range: 1024-4096

ksk-lifetime-k

Description Set the lifetime for DNSSEC KSK keys in days

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ksk-lifetime-v

Description Default value is 365 days

Type: number

Range: 2-3650

ksk-rollover-time-k

Description Set the rollover time in days

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zsk-rollover-time-v

Description 7 days less than the lifetime by default

Type: number

Range: 1-3650

Default: 358

template-list_dnssec-template-zsk

Specification	Value
Type	*object*

zsk-keysize-k

Description Specify the number of bits in the DNSSEC ZSK keys

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zsk-keysize-v

Description Default size is 2048 and must be an exact multiple of 64

Type: number

Range: 1024-4096

zsk-lifetime-k

Description Set the lifetime for DNSSEC ZSK keys in days

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zsk-lifetime-v

Description Default value is 90 days

Type: number

Range: 2-3650

Default: 90

zsk-rollover-time-k

Description Set the rollover time in days

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zsk-rollover-time-v

Description 7 days less than the lifetime by default

Type: number

Range: 1-3650

Default: 83

ds

Specification	Value
Type	*object*

ds-delete

Description Delete the DS file

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zone-name

Description DNS zone name of the child zone

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

2.38.2 dnssec oper

Operational Status for the object dnssec

dnssec Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dnssec
Element URI	/axapi/v3/dnssec/oper
Element Attributes	dnssec_attributes
Partition Visibility	None
Schema	`dnssec schema`

Operations Allowed:

Create Object

POST

/axapi/v3/dnssec/oper

dnssec attributes

Get Object

GET

/axapi/v3/dnssec/oper

dnssec attributes

Modify Object

POST

/axapi/v3/dnssec/oper

dnssec attributes

Replace Object

PUT

/axapi/v3/dnssec/oper

dnssec attributes

Delete Object

DELETE

/axapi/v3/dnssec/oper

dnssec attributes

dnssec attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

a_memory

Description

Type: number

a_objects

Description

Type: number

aaaa_memory

Description

Type: number

aaaa_objects

Description

Type: number

array_memory

Description

Type: number

array_objects

Description

Type: number

cname_memory

Description

Type: number

cname_objects

Description

Type: number

dnskey_memory

Description

Type: number

dnskey_objects

Description

Type: number

domain_memory

Description

Type: number

domain_objects

Description

Type: number

ds_memory

Description

Type: number

ds_objects

Description

Type: number

mx_memory

Description

Type: number

mx_objects

Description

Type: number

ns_memory

Description

Type: number

ns_objects

Description

Type: number

nsec3_memory

Description

Type: number

nsec3_objects

Description

Type: number

nsec3param_memory

Description

Type: number

nsec3param_objects

Description

Type: number

nsec_memory

Description

Type: number

nsec_objects

Description

Type: number

ptr_memory

Description

Type: number

ptr_objects

Description

Type: number

reference_memory

Description

Type: number

reference_objects

Description

Type: number

rrsig2_memory

Description

Type: number

rrsig2_objects

Description

Type: number

rrsig_memory

Description

Type: number

rrsig_objects

Description

Type: number

soa_memory

Description

Type: number

soa_objects

Description

Type: number

srv_memory

Description

Type: number

srv_objects

Description

Type: number

table_memory

Description

Type: number

table_objects

Description

Type: number

total_memory

Description

Type: number

total_objects

Description

Type: number

txt_memory

Description

Type: number

txt_objects

Description

Type: number

zone_memory

Description

Type: number

zone_objects

Description

Type: number

2.38.3 dnssec template

template Settings

template Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dnssec-temp-name*
Collection Name	*template-list*
Collection URI	/axapi/v3/dnssec/template
Element Name	template
Element URI	/axapi/v3/dnssec/template/{dnssec-temp-name}
Element Attributes	template_attributes
Partition Visibility	shared
Schema	`template schema`

Operations Allowed:

Create Object

POST

/axapi/v3/dnssec/template

template attributes

```
POST /axapi/v3/dnssec/template/
Payload:
{
    "template": {
        "dnssec-temp-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/dnssec/template

template attributes

Get Object

GET

/axapi/v3/dnssec/template/{dnssec-temp-name}

template attributes

```
GET /axapi/v3/dnssec/template/a
Reponse:
{
```

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```
    "template": {
        "dnssec-temp-name": "a",
        "dnskey-ttl-k": 0,
        "enable-nsec3": 0,
        "return-nsec-on-failure": 1,
        "signature-validity-period-k": 0,
        "dnssec-template-zsk": {
            "zsk-keysize-k": 0,
            "zsk-lifetime-k": 0
        },
        "dnssec-template-ksk": {
            "ksk-keysize-k": 0,
            "ksk-lifetime-k": 0
        },
        "uuid": "e32dff1e-0908-11f0-9794-815a0f7f8297",
        "user-tag": "a",
        "a10-url": "/axapi/v3/dnssec/template/a"
    }
}
```


Get List

GET

/axapi/v3/dnssec/template

template-list

Modify Object

POST

/axapi/v3/dnssec/template/{dnssec-temp-name}

template attributes

Replace Object

PUT

/axapi/v3/dnssec/template/{dnssec-temp-name}

template attributes

```
PUT /axapi/v3/dnssec/template/a
Payload:
{
    "template": {
        "dnssec-temp-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/dnssec/template

template-list

Delete Object

DELETE

/axapi/v3/dnssec/template/{dnssec-temp-name}

template attributes

```
DELETE /axapi/v3/dnssec/template/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

template-list

template-list is **JSON List** of *template attributes*

template-list : [

{ *template attributes* },

{ *template attributes* },

...

]

template attributes

algorithm

Description 'RSASHA1': RSASHA1 algorithm; 'RSASHA256': RSASHA256 algorithm; 'RSASHA512': RSASHA512 algorithm;

Type: string

Supported Values: RSASHA1, RSASHA256, RSASHA512

combinations-limit

Description the max number of combinations per RRset (Default value is 31)

Type: number

Range: 1-65535

dnskey-ttl-k

Description The TTL value of DNSKEY RR

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dnskey-ttl-v

Description in seconds, 14400 seconds by default

Type: number

Range: 1-864000

Default: 14400

dnssec-temp-name

Description DNSSEC Template Name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

dnssec-template-ksk

Description: dnssec-template-ksk is a **JSON Block**. Please see below for *dnssec-template-ksk*

Type: Object

dnssec-template-zsk

Description: dnssec-template-zsk is a **JSON Block**. Please see below for *dnssec-template-zsk*

Type: Object

enable-nsec3

Description enable NSEC3 support. disabled by default

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

hsm

Description specify the HSM template

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/hsm/template*

return-nsec-on-failure

Description return NSEC/NSEC3 or not on failure case. return by default

Type: boolean

Supported Values: true, false, 1, 0

Default: 1

signature-validity-period-k

Description The period that a signature is valid

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

signature-validity-period-v

Description in days, 10 days by default

Type: number

Range: 5-30

Default: 10

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dnssec-template-ksk

Specification	Value
Type	*object*

ksk-keysize-k

Description Specify the number of bits in the DNSSEC KSK keys

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ksk-keysize-v

Description Default size is 2048 and must be an exact multiple of 64

Type: number

Range: 1024-4096

ksk-lifetime-k

Description Set the lifetime for DNSSEC KSK keys in days

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ksk-lifetime-v

Description Default value is 365 days

Type: number

Range: 2-3650

ksk-rollover-time-k

Description Set the rollover time in days

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zsk-rollover-time-v

Description 7 days less than the lifetime by default

Type: number

Range: 1-3650

Default: 358

dnssec-template-zsk

Specification	Value
Type	*object*

zsk-keysize-k

Description Specify the number of bits in the DNSSEC ZSK keys

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zsk-keysize-v

Description Default size is 2048 and must be an exact multiple of 64

Type: number

Range: 1024-4096

zsk-lifetime-k

Description Set the lifetime for DNSSEC ZSK keys in days

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zsk-lifetime-v

Description Default value is 90 days

Type: number

Range: 2-3650

Default: 90

zsk-rollover-time-k

Description Set the rollover time in days

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

zsk-rollover-time-v

Description 7 days less than the lifetime by default

Type: number

Range: 1-3650

Default: 83

2.39 domain-group

Objects:

2.39.1 domain-group

Configure Domain group consisting of domain-lists

domain-group Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*domain-group-list*
Collection URI	/axapi/v3/domain-group
Element Name	domain-group
Element URI	/axapi/v3/domain-group/{name}
Element Attributes	domain-group_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/domain-group/{name}/oper
Schema	`domain-group schema`

Operations Allowed:

Create Object

POST

/axapi/v3/domain-group

domain-group attributes

```
POST /axapi/v3/domain-group/
Payload:
{
    "domain-group": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/domain-group

domain-group attributes

Get Object

GET

/axapi/v3/domain-group/{name}

domain-group attributes

Get List

GET

/axapi/v3/domain-group

domain-group-list

Modify Object

POST

/axapi/v3/domain-group/{name}

domain-group attributes

Replace Object

PUT

/axapi/v3/domain-group/{name}

domain-group attributes

Replace List

PUT

/axapi/v3/domain-group

domain-group-list

Delete Object

DELETE

/axapi/v3/domain-group/{name}

domain-group attributes

domain-group-list

domain-group-list is **JSON List** of *domain-group attributes*

domain-group-list : [

{ *domain-group attributes* },

{ *domain-group attributes* },

...

]

domain-group attributes

domain-group-list

Type: List

domain-rate-list

Type: List

Reference Object: */axapi/v3/domain-group/{name}/domain-rate/{dummy-name}*

name

Description Specify name of the domain group

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-group-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'permit': permit; 'deny': deny;

Type: string

Supported Values: permit, deny

Default: permit

domain-list-name

Description Specify domain-list

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

domain-rate-list

Specification	Value
Type	*list*
Block object keys	

domain-list-list

Type: List

Reference Object: */axapi/v3/domain-group/{name}/domain-rate/{dummy-name}/domain-list/{name}*

dummy-name

Description 'configuration': Configure domain group rate limit;

Type: string

Supported Values: configuration

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-rate-list_domain-list-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify name of the domain list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

per-suffix-rate

Description Per suffix domain rate limit

Type: number

Range: 1-16000000

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.39.2 domain-group domain-rate

Configure Domain group per domain rate

domain-rate Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dummy-name*
Collection Name	*domain-rate-list*
Collection URI	/axapi/v3/domain-group/{name}/domain-rate
Element Name	domain-rate
Element URI	/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}
Element Attributes	domain-rate_attributes
Partition Visibility	shared
Schema	`domain-rate schema`

Operations Allowed:

Create Object

POST

/axapi/v3/domain-group/{name}/domain-rate

domain-rate attributes

Create List

POST

/axapi/v3/domain-group/{name}/domain-rate

domain-rate attributes

Get Object

GET

/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}

domain-rate attributes

Get List

GET

/axapi/v3/domain-group/{name}/domain-rate

domain-rate-list

Modify Object

POST

/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}

domain-rate attributes

Replace Object

PUT

/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}

domain-rate attributes

Replace List

PUT

/axapi/v3/domain-group/{name}/domain-rate

domain-rate-list

Delete Object

DELETE

/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}

domain-rate attributes

domain-rate-list

domain-rate-list is **JSON List** of *domain-rate attributes*

domain-rate-list : [

{ *domain-rate attributes* },

{ *domain-rate attributes* },

...

]

domain-rate attributes

domain-list-list

Type: List

Reference Object: */axapi/v3/domain-group/{name}/domain-rate/{dummy-name}/domain-list/{name}*

dummy-name

Description 'configuration': Configure domain group rate limit;

Type: string

Supported Values: configuration

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list-list

Specification	Value
Type	*list*
Block object keys	

name

Description Specify name of the domain list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

per-suffix-rate

Description Per suffix domain rate limit

Type: number

Range: 1-16000000

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.39.3 domain-group domain-rate domain-list

Per domain list domain rate configuration

domain-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*domain-list-list*
Collection URI	/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}/domain-list
Element Name	domain-list
Element URI	/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}/domain-list/{name}
Element Attributes	domain-list_attributes
Partition Visibility	shared
Schema	`domain-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}/domain-list

domain-list attributes

Create List

POST

/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}/domain-list

domain-list attributes

Get Object

GET

/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}/domain-list/{name}

domain-list attributes

Get List

GET

/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}/domain-list

domain-list-list

Modify Object

POST

/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}/domain-list/{name}

domain-list attributes

Replace Object

PUT

/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}/domain-list/{name}

domain-list attributes

Replace List

PUT

/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}/domain-list

domain-list-list

Delete Object

DELETE

/axapi/v3/domain-group/{name}/domain-rate/{dummy-name}/domain-list/{name}

domain-list attributes

domain-list-list

domain-list-list is **JSON List** of *domain-list attributes*

domain-list-list : [

{ *domain-list attributes* },

{ *domain-list attributes* },

...

]

domain-list attributes

name

Description Specify name of the domain list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

per-suffix-rate

Description Per suffix domain rate limit

Type: number

Range: 1-16000000

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.40 domain-group-oper

Objects:

2.40.1 domain-group-oper

Show domain group

domain-group-oper Specification

Parameter	Value
Type	*operational*
Element Name	domain-group-oper
Element URI	/axapi/v3/domain-group-oper
Element Attributes	domain-group-oper_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/domain-group-oper/oper
Schema	`domain-group-oper schema`

Operations Allowed:

EXECUTE Object

POST

/axapi/v3/domain-group-oper

domain-group-oper attributes

domain-group-oper attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.40.2 domain-group-oper oper

Operational Status for the object domain-group-oper

domain-group-oper Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	domain-group-oper
Element URI	/axapi/v3/domain-group-oper/oper
Element Attributes	domain-group-oper_attributes
Partition Visibility	None
Schema	`domain-group-oper schema`

Operations Allowed:

Create Object

POST

/axapi/v3/domain-group-oper/oper

domain-group-oper attributes

Get Object

GET

/axapi/v3/domain-group-oper/oper

domain-group-oper attributes

Modify Object

POST

/axapi/v3/domain-group-oper/oper

domain-group-oper attributes

Replace Object

PUT

/axapi/v3/domain-group-oper/oper

domain-group-oper attributes

Delete Object

DELETE

/axapi/v3/domain-group-oper/oper

domain-group-oper attributes

domain-group-oper attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

displayed-count

Description

Type: number

domain-group-entries

Type: List

domain-group-name-filter

Description

Type: string

domain-groups

Type: List

domain-name-filter

Description

Type: string

oper_domain-groups

Specification	Value
Type	*list*
Block object keys	

binding-num

Description

Type: number

domain-group-name

Description

Type: string

total-entry-num

Description

Type: number

oper_domain-group-entries

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

domain-list-name

Description

Type: string

domain-match-type

Description

Type: string

Supported Values: Equals, Suffix, Zone-transfer

domain-name

Description

Type: string

hit-count

Description

Type: number

2.41 domain-list

Objects:

2.41.1 domain-list

Configure Domain classification list

domain-list Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*domain-list-list*
Collection URI	/axapi/v3/domain-list
Element Name	domain-list
Element URI	/axapi/v3/domain-list/{name}
Element Attributes	domain-list_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/domain-list/{name}/oper
Schema	`domain-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/domain-list

domain-list attributes

```
POST /axapi/v3/domain-list/
Payload:
{
    "domain-list": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/domain-list

domain-list attributes

Get Object

GET

/axapi/v3/domain-list/{name}

domain-list attributes

```
GET /axapi/v3/domain-list/a
Reponse:
{
    "domain-list": {
        "name": "a",
        "uuid": "ad4df8a4-b6bf-11ef-8f5a-ae71681635d0",
        "user-tag": "a",
```

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```
        "a10-url": "/axapi/v3/domain-list/a"
    }
}
```

Get List

GET

/axapi/v3/domain-list

domain-list-list

Modify Object

POST

/axapi/v3/domain-list/{name}

domain-list attributes

Replace Object

PUT

/axapi/v3/domain-list/{name}

domain-list attributes

```
PUT /axapi/v3/domain-list/a
Payload:
{
    "domain-list": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/domain-list

domain-list-list

Delete Object

DELETE

/axapi/v3/domain-list/{name}

domain-list attributes

```
DELETE /axapi/v3/domain-list/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
```

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```
        "msg": "Success"
    }
}
```

domain-list-list

domain-list-list is **JSON List** of *domain-list attributes*

domain-list-list : [

{ *domain-list attributes* },

{ *domain-list attributes* },

...

]

domain-list attributes

domain-name-list

Type: List

file

Description Create/Edit a domain-list stored as a file

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

match-type-axfr

Type: List

match-type-equals

Type: List

match-type-suffix

Type: List

name

Description Specify name of the domain list

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

match-type-suffix

Specification	Value
Type	*list*
Block object keys	

suffix

Description Specify suffix matching the Domain Name

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

match-type-equals

Specification	Value
Type	*list*
Block object keys	

equals

Description Specify exact match for the Domain Name

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

match-type-axfr

Specification	Value
Type	*list*
Block object keys	

axfr-domain

Description Import the list of domains via zone-transfer

Type: string

Format: string-rlx

Maximum Length: 253 characters

Maximum Length: 1 characters

axfr-ip-address

Description IP address of the listening DNS server

Type: string

Format: ipv4-address

axfr-ipv6-address

Description IPv6 address of the listening DNS server

Type: string

Format: ipv6-address

ip-axfr-port-num

Description Port Number

Type: number

Range: 1-65535

Default: 53

ip-refresh-intvl

Description Poll every x minutes to check for an Updated axfr default

Type: number

Range: 30-255

Default: 30

ipv6-axfr-port-num

Description Port Number

Type: number

Range: 1-65535

Default: 53

ipv6-refresh-intvl

Description Poll every x minutes to check for an Updated axfr default

Type: number

Range: 30-255

Default: 30

domain-name-list

Specification	Value
Type	*list*
Block object keys	

domain-name

Description Domain name to be added to this domain list

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

fail-interval

Description Set up the failure interval in second for the DNS resolution. (default is 30-second)

Type: number

Range: 3-600

Default: 30

interval

Description DNS query interval (in minute, default is 10)

Type: number

Range: 1-1440

Default: 10

2.42 domain-list-oper

Objects:

2.42.1 domain-list-oper

Show domain list

domain-list-oper Specification

Parameter	Value
Type	*operational*
Element Name	domain-list-oper
Element URI	/axapi/v3/domain-list-oper
Element Attributes	domain-list-oper_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/domain-list-oper/oper
Schema	`domain-list-oper schema`

Operations Allowed:

EXECUTE Object

POST

/axapi/v3/domain-list-oper

domain-list-oper attributes

domain-list-oper attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.42.2 domain-list-oper oper

Operational Status for the object domain-list-oper

domain-list-oper Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	domain-list-oper
Element URI	/axapi/v3/domain-list-oper/oper
Element Attributes	domain-list-oper_attributes
Partition Visibility	None
Schema	`domain-list-oper schema`

Operations Allowed:

Create Object

POST

/axapi/v3/domain-list-oper/oper

domain-list-oper attributes

Get Object

GET

/axapi/v3/domain-list-oper/oper

domain-list-oper attributes

Modify Object

POST

/axapi/v3/domain-list-oper/oper

domain-list-oper attributes

Replace Object

PUT

/axapi/v3/domain-list-oper/oper

domain-list-oper attributes

Delete Object

DELETE

/axapi/v3/domain-list-oper/oper

domain-list-oper attributes

domain-list-oper attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

binding-info

Description

Type: boolean

Supported Values: true, false, 1, 0

displayed-count

Description

Type: number

domain-entries

Type: List

domain-list

Type: List

domain-list-name-filter

Description

Type: string

domain-list-type

Description

Type: string

match-type

Description

Type: string

oper_domain-list

Specification	Value
Type	*list*
Block object keys	

binding-info-list

Type: List

binding-num

Description

Type: number

config-type

Description

Type: string

Supported Values: FILE, CLI

domain-list-name

Description

Type: string

total-entry-num

Description

Type: number

oper_domain-list_binding-info-list

Specification	Value
Type	*list*
Block object keys	

domain-group-name

Description

Type: string

oper_domain-entries

Specification	Value
Type	*list*
Block object keys	

domain-match-type

Description

Type: string

Supported Values: Equals, Suffix, Zone-transfer

domain-name

Description

Type: string

zone-transfer-interval

Description

Type: string

zone-transfer-ip

Description

Type: string

zone-transfer-port

Description

Type: string

2.43 enable-core

Objects:

2.43.1 enable-core

Enable system coredump switch

enable-core Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	enable-core
Element URI	/axapi/v3/enable-core
Element Attributes	enable-core_attributes
Partition Visibility	shared
Schema	`enable-core schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-core

enable-core attributes

```
POST /axapi/v3/enable-core
Payload:
{
    "enable-core": {
        "core-level": "a10"
    }
}
```

Get Object

GET

/axapi/v3/enable-core

enable-core attributes

```
GET /axapi/v3/enable-core
Reponse:
{
    "enable-core": {
        "core-level": "a10",
        "uuid": "b8e5d244-b6a7-11ef-9616-ae71681635d0",
        "a10-url": "/axapi/v3/enable-core"
```

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```
    }
}
```

Modify Object

POST

/axapi/v3/enable-core

enable-core attributes

Replace Object

PUT

/axapi/v3/enable-core

enable-core attributes

```
PUT /axapi/v3/enable-core
Payload:
{
    "enable-core": {
        "core-level": "a10"
    }
}
```

Delete Object

DELETE

/axapi/v3/enable-core

enable-core attributes

```
DELETE /axapi/v3/enable-core
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Enable A10 coredump."
    }
}
```

enable-core attributes

core-level

Description 'a10': Enable A10 core dump, by default; 'system': Enable system coredump;

Type: string

Supported Values: a10, system

Default: a10

Mutual Exclusion: core-level and full are mutually exclusive

full

Description Enable full system core dump

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: full and core-level are mutually exclusive

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.44 enable-management

Objects:

2.44.1 enable-management

Enable management services

enable-management Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	enable-management
Element URI	/axapi/v3/enable-management
Element Attributes	enable-management_attributes
Partition Visibility	shared
Schema	`enable-management schema`

Operations Allowed:

Get Object

GET

/axapi/v3/enable-management

enable-management_attributes

enable-management attributes

acl-ipv4

Description: acl-ipv4 is a **JSON Block**. Please see below for *acl-ipv4*

Type: Object

Reference Object: */axapi/v3/enable-management/acl-ipv4*

acl-ipv6

Description: acl-ipv6 is a **JSON Block**. Please see below for *acl-ipv6*

Type: Object

Reference Object: */axapi/v3/enable-management/acl-ipv6*

http

Description: http is a **JSON Block**. Please see below for *http*

Type: Object

Reference Object: */axapi/v3/enable-management/http*

https

Description: https is a **JSON Block**. Please see below for *https*

Type: Object

Reference Object: */axapi/v3/enable-management/https*

ntp

Description: ntp is a **JSON Block**. Please see below for *ntp*

Type: Object

Reference Object: */axapi/v3/enable-management/ntp*

ping

Description: ping is a **JSON Block**. Please see below for *ping*

Type: Object

Reference Object: */axapi/v3/enable-management/ping*

service

Description: service is a **JSON Block**. Please see below for *service*

Type: Object

Reference Object: */axapi/v3/enable-management/service*

snmp

Description: snmp is a **JSON Block**. Please see below for *snmp*

Type: Object

Reference Object: */axapi/v3/enable-management/snmp*

ssh

Description: ssh is a **JSON Block**. Please see below for *ssh*

Type: Object

Reference Object: */axapi/v3/enable-management/ssh*

telnet

Description: telnet is a **JSON Block**. Please see below for *telnet*

Type: Object

Reference Object: */axapi/v3/enable-management/telnet*

http

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/acl-v6/{acl-name}*

http

Description: http is a **JSON Block**. Please see below for *service_http*

Type: Object

Reference Object: */axapi/v3/enable-management/service/http*

https

Description: https is a **JSON Block**. Please see below for *service_https*

Type: Object

Reference Object: */axapi/v3/enable-management/service/https*

ntp

Description: ntp is a **JSON Block**. Please see below for *service_ntp*

Type: Object

Reference Object: */axapi/v3/enable-management/service/ntp*

ping

Description: ping is a **JSON Block**. Please see below for *service_ping*

Type: Object

Reference Object: */axapi/v3/enable-management/service/ping*

snmp

Description: snmp is a **JSON Block**. Please see below for *service_snmp*

Type: Object

Reference Object: */axapi/v3/enable-management/service/snmp*

ssh

Description: ssh is a **JSON Block**. Please see below for *service_ssh*

Type: Object

Reference Object: */axapi/v3/enable-management/service/ssh*

telnet

Description: telnet is a **JSON Block**. Please see below for *service_telnet*

Type: Object

Reference Object: */axapi/v3/enable-management/service/telnet*

service_http

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/http/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/http/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_http_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_http_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_http_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_http_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_http_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_http_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_http_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_http_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_http_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_http_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_http_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_ping

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ping/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ping/acl-v6/{acl-name}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service_ping_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_ping_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_ping_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_ping_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_ping_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_ping_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_ping_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_ping_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_ntp

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ntp/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ntp/acl-v6/{acl-name}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service_ntp_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_ntp_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_ntp_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_ntp_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_ntp_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_ntp_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_ntp_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_ntp_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_snmp

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/snmp/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/snmp/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_snmp_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_snmp_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_snmp_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_snmp_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_snmp_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_snmp_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_snmp_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_snmp_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_snmp_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_snmp_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_snmp_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_telnet

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/telnet/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/telnet/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_telnet_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_telnet_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_telnet_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_telnet_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_telnet_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_telnet_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_telnet_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_telnet_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_telnet_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_telnet_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_telnet_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

priority

Description High Priority

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_ssh

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ssh/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ssh/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_ssh_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_ssh_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_ssh_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_ssh_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_ssh_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_ssh_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_ssh_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_ssh_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_ssh_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_ssh_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_ssh_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_https

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/https/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/https/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_https_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_https_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_https_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_https_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_https_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_https_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_https_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_https_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_https_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_https_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_https_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

service_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

priority

Description High Priority

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

service_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

service_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

service_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

snmp

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ping

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

telnet

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

acl-ipv4

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

acl-ipv6

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssh

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

https

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ntp

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.44.2 enable-management acl-ipv4

acl-ipv4 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	acl-ipv4
Element URI	/axapi/v3/enable-management/acl-ipv4
Element Attributes	acl-ipv4_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/enable-management/acl-ipv4/oper
Schema	`acl-ipv4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/acl-ipv4

acl-ipv4 attributes

Get Object

GET

/axapi/v3/enable-management/acl-ipv4

acl-ipv4 attributes

Modify Object

POST

/axapi/v3/enable-management/acl-ipv4

acl-ipv4 attributes

Replace Object

PUT

/axapi/v3/enable-management/acl-ipv4

acl-ipv4 attributes

Delete Object

DELETE

/axapi/v3/enable-management/acl-ipv4

acl-ipv4 attributes

acl-ipv4 attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.44.3 enable-management acl-ipv4 oper

Operational Status for the object acl-ipv4

acl-ipv4 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	acl-ipv4
Element URI	/axapi/v3/enable-management/acl-ipv4/oper
Element Attributes	acl-ipv4_attributes
Partition Visibility	None
Schema	`acl-ipv4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/acl-ipv4/oper

acl-ipv4 attributes

Get Object

GET

/axapi/v3/enable-management/acl-ipv4/oper

acl-ipv4 attributes

Modify Object

POST

/axapi/v3/enable-management/acl-ipv4/oper

acl-ipv4 attributes

Replace Object

PUT

/axapi/v3/enable-management/acl-ipv4/oper

acl-ipv4 attributes

Delete Object

DELETE

/axapi/v3/enable-management/acl-ipv4/oper

acl-ipv4 attributes

acl-ipv4 attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

port-list

Type: List

oper_port-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

ethernet

Description

Type: number

management

Description

Type: number

tunnel

Description

Type: number

ve

Description

Type: number

2.44.4 enable-management acl-ipv6

acl-ipv6 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	acl-ipv6
Element URI	/axapi/v3/enable-management/acl-ipv6
Element Attributes	acl-ipv6_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/enable-management/acl-ipv6/oper
Schema	`acl-ipv6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/acl-ipv6

acl-ipv6 attributes

Get Object

GET

/axapi/v3/enable-management/acl-ipv6

acl-ipv6 attributes

Modify Object

POST

/axapi/v3/enable-management/acl-ipv6

acl-ipv6 attributes

Replace Object

PUT

/axapi/v3/enable-management/acl-ipv6

acl-ipv6 attributes

Delete Object

DELETE

/axapi/v3/enable-management/acl-ipv6

acl-ipv6 attributes

acl-ipv6 attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.44.5 enable-management acl-ipv6 oper

Operational Status for the object acl-ipv6

acl-ipv6 Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	acl-ipv6
Element URI	/axapi/v3/enable-management/acl-ipv6/oper
Element Attributes	acl-ipv6_attributes
Partition Visibility	None
Schema	`acl-ipv6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/acl-ipv6/oper

acl-ipv6 attributes

Get Object

GET

/axapi/v3/enable-management/acl-ipv6/oper

acl-ipv6 attributes

Modify Object

POST

/axapi/v3/enable-management/acl-ipv6/oper

acl-ipv6 attributes

Replace Object

PUT

/axapi/v3/enable-management/acl-ipv6/oper

acl-ipv6 attributes

Delete Object

DELETE

/axapi/v3/enable-management/acl-ipv6/oper

acl-ipv6 attributes

acl-ipv6 attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

port-list

Type: List

oper_port-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

ethernet

Description

Type: number

management

Description

Type: number

tunnel

Description

Type: number

ve

Description

Type: number

2.44.6 enable-management http

http Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	http
Element URI	/axapi/v3/enable-management/http
Element Attributes	http_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/enable-management/http/oper
Schema	`http schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/http

http attributes

Get Object

GET

/axapi/v3/enable-management/http

http attributes

Modify Object

POST

/axapi/v3/enable-management/http

http attributes

Replace Object

PUT

/axapi/v3/enable-management/http

http attributes

Delete Object

DELETE

/axapi/v3/enable-management/http

http attributes

http attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.44.7 enable-management http oper

Operational Status for the object http

http Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	http
Element URI	/axapi/v3/enable-management/http/oper
Element Attributes	http_attributes
Partition Visibility	None
Schema	`http schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/http/oper

http attributes

Get Object

GET

/axapi/v3/enable-management/http/oper

http attributes

Modify Object

POST

/axapi/v3/enable-management/http/oper

http attributes

Replace Object

PUT

/axapi/v3/enable-management/http/oper

http attributes

Delete Object

DELETE

/axapi/v3/enable-management/http/oper

http attributes

http attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

port-list

Type: List

oper_port-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

ethernet

Description

Type: number

ipv4-acl

Description

Type: string

ipv6-acl

Description

Type: string

management

Description

Type: number

tunnel

Description

Type: number

ve

Description

Type: number

2.44.8 enable-management https

https Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	https
Element URI	/axapi/v3/enable-management/https
Element Attributes	https_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/enable-management/https/oper
Schema	`https schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/https

https attributes

Get Object

GET

/axapi/v3/enable-management/https

https attributes

Modify Object

POST

/axapi/v3/enable-management/https

https attributes

Replace Object

PUT

/axapi/v3/enable-management/https

https attributes

Delete Object

DELETE

/axapi/v3/enable-management/https

https attributes

https attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.44.9 enable-management https oper

Operational Status for the object https

https Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	https
Element URI	/axapi/v3/enable-management/https/oper
Element Attributes	https_attributes
Partition Visibility	None
Schema	`https schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/https/oper

https attributes

Get Object

GET

/axapi/v3/enable-management/https/oper

https attributes

Modify Object

POST

/axapi/v3/enable-management/https/oper

https attributes

Replace Object

PUT

/axapi/v3/enable-management/https/oper

https attributes

Delete Object

DELETE

/axapi/v3/enable-management/https/oper

https attributes

https attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

port-list

Type: List

oper_port-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

ethernet

Description

Type: number

ipv4-acl

Description

Type: string

ipv6-acl

Description

Type: string

management

Description

Type: number

tunnel

Description

Type: number

ve

Description

Type: number

2.44.10 enable-management ntp

ntp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ntp
Element URI	/axapi/v3/enable-management/ntp
Element Attributes	ntp_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/enable-management/ntp/oper
Schema	`ntp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/ntp

ntp attributes

Get Object

GET

/axapi/v3/enable-management/ntp

ntp attributes

Modify Object

POST

/axapi/v3/enable-management/ntp

ntp attributes

Replace Object

PUT

/axapi/v3/enable-management/ntp

ntp attributes

Delete Object

DELETE

/axapi/v3/enable-management/ntp

ntp attributes

ntp attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.44.11 enable-management ntp oper

Operational Status for the object ntp

ntp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ntp
Element URI	/axapi/v3/enable-management/ntp/oper
Element Attributes	ntp_attributes
Partition Visibility	None
Schema	`ntp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/ntp/oper

ntp attributes

Get Object

GET

/axapi/v3/enable-management/ntp/oper

ntp attributes

Modify Object

POST

/axapi/v3/enable-management/ntp/oper

ntp attributes

Replace Object

PUT

/axapi/v3/enable-management/ntp/oper

ntp attributes

Delete Object

DELETE

/axapi/v3/enable-management/ntp/oper

ntp attributes

ntp attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

port-list

Type: List

oper_port-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

ethernet

Description

Type: number

ipv4-acl

Description

Type: string

ipv6-acl

Description

Type: string

management

Description

Type: number

tunnel

Description

Type: number

ve

Description

Type: number

2.44.12 enable-management ping

ping Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ping
Element URI	/axapi/v3/enable-management/ping
Element Attributes	ping_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/enable-management/ping/oper
Schema	`ping schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/ping

ping attributes

Get Object

GET

/axapi/v3/enable-management/ping

ping attributes

Modify Object

POST

/axapi/v3/enable-management/ping

ping attributes

Replace Object

PUT

/axapi/v3/enable-management/ping

ping attributes

Delete Object

DELETE

/axapi/v3/enable-management/ping

ping attributes

ping attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.44.13 enable-management ping oper

Operational Status for the object ping

ping Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ping
Element URI	/axapi/v3/enable-management/ping/oper
Element Attributes	ping_attributes
Partition Visibility	None
Schema	`ping schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/ping/oper

ping attributes

Get Object

GET

/axapi/v3/enable-management/ping/oper

ping attributes

Modify Object

POST

/axapi/v3/enable-management/ping/oper

ping attributes

Replace Object

PUT

/axapi/v3/enable-management/ping/oper

ping attributes

Delete Object

DELETE

/axapi/v3/enable-management/ping/oper

ping attributes

ping attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

port-list

Type: List

oper_port-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

ethernet

Description

Type: number

ipv4-acl

Description

Type: string

ipv6-acl

Description

Type: string

management

Description

Type: number

tunnel

Description

Type: number

ve

Description

Type: number

2.44.14 enable-management service

Enable management services

service Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	service
Element URI	/axapi/v3/enable-management/service
Element Attributes	service_attributes
Partition Visibility	shared
Schema	`service schema`

Operations Allowed:

Get Object

GET

/axapi/v3/enable-management/service

service_attributes

service attributes

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/acl-v6/{acl-name}*

http

Description: http is a **JSON Block**. Please see below for *http*

Type: Object

Reference Object: */axapi/v3/enable-management/service/http*

https

Description: https is a **JSON Block**. Please see below for *https*

Type: Object

Reference Object: */axapi/v3/enable-management/service/https*

ntp

Description: ntp is a **JSON Block**. Please see below for *ntp*

Type: Object

Reference Object: */axapi/v3/enable-management/service/ntp*

ping

Description: ping is a **JSON Block**. Please see below for *ping*

Type: Object

Reference Object: */axapi/v3/enable-management/service/ping*

snmp

Description: snmp is a **JSON Block**. Please see below for *snmp*

Type: Object

Reference Object: */axapi/v3/enable-management/service/snmp*

ssh

Description: ssh is a **JSON Block**. Please see below for *ssh*

Type: Object

Reference Object: */axapi/v3/enable-management/service/ssh*

telnet

Description: telnet is a **JSON Block**. Please see below for *telnet*

Type: Object

Reference Object: */axapi/v3/enable-management/service/telnet*

http

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/http/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/http/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

http_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

http_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

http_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

http_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

http_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

http_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

http_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

http_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

http_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

http_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

http_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ping

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ping/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ping/acl-v6/{acl-name}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ping_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

ping_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ping_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

ping_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ping_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

ping_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ping_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

ping_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ntp

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ntp/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ntp/acl-v6/{acl-name}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ntp_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

ntp_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ntp_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

ntp_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ntp_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

ntp_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ntp_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

ntp_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

snmp

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/snmp/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/snmp/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

snmp_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

snmp_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

snmp_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

snmp_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

snmp_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

snmp_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

snmp_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

snmp_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

snmp_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

snmp_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

snmp_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

telnet

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/telnet/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/telnet/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

telnet_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

telnet_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

telnet_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

telnet_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

telnet_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

telnet_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

telnet_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

telnet_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

telnet_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

telnet_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

telnet_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

priority

Description High Priority

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ssh

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ssh/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ssh/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

ssh_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ssh_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

ssh_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ssh_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

ssh_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ssh_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

ssh_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

ssh_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ssh_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

ssh_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ssh_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

https

Specification	Value
Type	*object*

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/https/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/https/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

https_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

https_acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

https_acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

https_acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

https_acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

https_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

https_acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

https_acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

https_acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

https_acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

https_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

priority

Description High Priority

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.15 enable-management service acl-v4

IPv4 ACL service

acl-v4 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-id*
Collection Name	*acl-v4-list*
Collection URI	/axapi/v3/enable-management/service/acl-v4
Element Name	acl-v4
Element URI	/axapi/v3/enable-management/service/acl-v4/{acl-id}
Element Attributes	acl-v4_attributes
Partition Visibility	shared
Schema	`acl-v4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/acl-v4

acl-v4 attributes

Create List

POST

/axapi/v3/enable-management/service/acl-v4

acl-v4 attributes

Get Object

GET

/axapi/v3/enable-management/service/acl-v4/{acl-id}

acl-v4 attributes

Get List

GET

/axapi/v3/enable-management/service/acl-v4

acl-v4-list

Modify Object

POST

/axapi/v3/enable-management/service/acl-v4/{acl-id}

acl-v4 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/acl-v4/{acl-id}

acl-v4 attributes

Replace List

PUT

/axapi/v3/enable-management/service/acl-v4

acl-v4-list

Delete Object

DELETE

/axapi/v3/enable-management/service/acl-v4/{acl-id}

acl-v4 attributes

acl-v4-list

acl-v4-list is **JSON List** of *acl-v4 attributes*

```
acl-v4-list : [
        { acl-v4 attributes },
        { acl-v4 attributes },
        ...
    ]
```

acl-v4 attributes

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

priority

Description High Priority

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.16 enable-management service acl-v6

IPv6 ACL service

acl-v6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-name*
Collection Name	*acl-v6-list*
Collection URI	/axapi/v3/enable-management/service/acl-v6
Element Name	acl-v6
Element URI	/axapi/v3/enable-management/service/acl-v6/{acl-name}
Element Attributes	acl-v6_attributes
Partition Visibility	shared
Schema	`acl-v6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/acl-v6

acl-v6 attributes

Create List

POST

/axapi/v3/enable-management/service/acl-v6

acl-v6 attributes

Get Object

GET

/axapi/v3/enable-management/service/acl-v6/{acl-name}

acl-v6 attributes

Get List

GET

/axapi/v3/enable-management/service/acl-v6

acl-v6-list

Modify Object

POST

/axapi/v3/enable-management/service/acl-v6/{acl-name}

acl-v6 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/acl-v6/{acl-name}

acl-v6 attributes

Replace List

PUT

/axapi/v3/enable-management/service/acl-v6

acl-v6-list

Delete Object

DELETE

/axapi/v3/enable-management/service/acl-v6/{acl-name}

acl-v6 attributes

acl-v6-list

acl-v6-list is **JSON List** of *acl-v6 attributes*

```
acl-v6-list : [
        { acl-v6 attributes },
        { acl-v6 attributes },
        ...
    ]
```

acl-v6 attributes

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

priority

Description High Priority

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.17 enable-management service http

HTTP service

http Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	http
Element URI	/axapi/v3/enable-management/service/http
Element Attributes	http_attributes
Partition Visibility	shared
Schema	`http schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/http

http attributes

Get Object

GET

/axapi/v3/enable-management/service/http

http attributes

Modify Object

POST

/axapi/v3/enable-management/service/http

http attributes

Replace Object

PUT

/axapi/v3/enable-management/service/http

http attributes

http attributes

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/http/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/http/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.18 enable-management service http acl-v4

IPv4 ACL for HTTP service

acl-v4 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-id*
Collection Name	*acl-v4-list*
Collection URI	/axapi/v3/enable-management/service/http/acl-v4
Element Name	acl-v4
Element URI	/axapi/v3/enable-management/service/http/acl-v4/{acl-id}
Element Attributes	acl-v4_attributes
Partition Visibility	shared
Schema	`acl-v4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/http/acl-v4

acl-v4 attributes

Create List

POST

/axapi/v3/enable-management/service/http/acl-v4

acl-v4 attributes

Get Object

GET

/axapi/v3/enable-management/service/http/acl-v4/{acl-id}

acl-v4 attributes

Get List

GET

/axapi/v3/enable-management/service/http/acl-v4

acl-v4-list

Modify Object

POST

/axapi/v3/enable-management/service/http/acl-v4/{acl-id}

acl-v4 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/http/acl-v4/{acl-id}

acl-v4 attributes

Replace List

PUT

/axapi/v3/enable-management/service/http/acl-v4

acl-v4-list

Delete Object

DELETE

/axapi/v3/enable-management/service/http/acl-v4/{acl-id}

acl-v4 attributes

acl-v4-list

acl-v4-list is **JSON List** of *acl-v4 attributes*

acl-v4-list : [

{ *acl-v4 attributes* },

{ *acl-v4 attributes* },

…

]

acl-v4 attributes

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.19 enable-management service http acl-v6

IPv6 ACL for HTTP service

acl-v6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-name*
Collection Name	*acl-v6-list*
Collection URI	/axapi/v3/enable-management/service/http/acl-v6
Element Name	acl-v6
Element URI	/axapi/v3/enable-management/service/http/acl-v6/{acl-name}
Element Attributes	acl-v6_attributes
Partition Visibility	shared
Schema	`acl-v6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/http/acl-v6

acl-v6 attributes

Create List

POST

/axapi/v3/enable-management/service/http/acl-v6

acl-v6 attributes

Get Object

GET

/axapi/v3/enable-management/service/http/acl-v6/{acl-name}

acl-v6 attributes

Get List

GET

/axapi/v3/enable-management/service/http/acl-v6

acl-v6-list

Modify Object

POST

/axapi/v3/enable-management/service/http/acl-v6/{acl-name}

acl-v6 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/http/acl-v6/{acl-name}

acl-v6 attributes

Replace List

PUT

/axapi/v3/enable-management/service/http/acl-v6

acl-v6-list

Delete Object

DELETE

/axapi/v3/enable-management/service/http/acl-v6/{acl-name}

acl-v6 attributes

acl-v6-list

acl-v6-list is **JSON List** of *acl-v6 attributes*

```
acl-v6-list : [
        { acl-v6 attributes },
        { acl-v6 attributes },
        ...
    ]
```

acl-v6 attributes

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.20 enable-management service https

HTTPS service

https Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	https
Element URI	/axapi/v3/enable-management/service/https
Element Attributes	https_attributes
Partition Visibility	shared
Schema	`https schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/https

https attributes

Get Object

GET

/axapi/v3/enable-management/service/https

https attributes

Modify Object

POST

/axapi/v3/enable-management/service/https

https attributes

Replace Object

PUT

/axapi/v3/enable-management/service/https

https attributes

https attributes

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/https/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/https/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.21 enable-management service https acl-v4

IPv4 ACL for HTTPS service

acl-v4 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-id*
Collection Name	*acl-v4-list*
Collection URI	/axapi/v3/enable-management/service/https/acl-v4
Element Name	acl-v4
Element URI	/axapi/v3/enable-management/service/https/acl-v4/{acl-id}
Element Attributes	acl-v4_attributes
Partition Visibility	shared
Schema	`acl-v4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/https/acl-v4

acl-v4 attributes

Create List

POST

/axapi/v3/enable-management/service/https/acl-v4

acl-v4 attributes

Get Object

GET

/axapi/v3/enable-management/service/https/acl-v4/{acl-id}

acl-v4 attributes

Get List

GET

/axapi/v3/enable-management/service/https/acl-v4

acl-v4-list

Modify Object

POST

/axapi/v3/enable-management/service/https/acl-v4/{acl-id}

acl-v4 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/https/acl-v4/{acl-id}

acl-v4 attributes

Replace List

PUT

/axapi/v3/enable-management/service/https/acl-v4

acl-v4-list

Delete Object

DELETE

/axapi/v3/enable-management/service/https/acl-v4/{acl-id}

acl-v4 attributes

acl-v4-list

acl-v4-list is **JSON List** of *acl-v4 attributes*

acl-v4-list : [

{ *acl-v4 attributes* },

{ *acl-v4 attributes* },

…

]

acl-v4 attributes

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.22 enable-management service https acl-v6

IPv6 ACL for HTTPS service

acl-v6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-name*
Collection Name	*acl-v6-list*
Collection URI	/axapi/v3/enable-management/service/https/acl-v6
Element Name	acl-v6
Element URI	/axapi/v3/enable-management/service/https/acl-v6/{acl-name}
Element Attributes	acl-v6_attributes
Partition Visibility	shared
Schema	`acl-v6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/https/acl-v6

acl-v6 attributes

Create List

POST

/axapi/v3/enable-management/service/https/acl-v6

acl-v6 attributes

Get Object

GET

/axapi/v3/enable-management/service/https/acl-v6/{acl-name}

acl-v6 attributes

Get List

GET

/axapi/v3/enable-management/service/https/acl-v6

acl-v6-list

Modify Object

POST

/axapi/v3/enable-management/service/https/acl-v6/{acl-name}

acl-v6 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/https/acl-v6/{acl-name}

acl-v6 attributes

Replace List

PUT

/axapi/v3/enable-management/service/https/acl-v6

acl-v6-list

Delete Object

DELETE

/axapi/v3/enable-management/service/https/acl-v6/{acl-name}

acl-v6 attributes

acl-v6-list

acl-v6-list is **JSON List** of *acl-v6 attributes*

```
acl-v6-list : [
        { acl-v6 attributes },
        { acl-v6 attributes },
        ...
    ]
```

acl-v6 attributes

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.23 enable-management service ntp

NTP service

ntp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ntp
Element URI	/axapi/v3/enable-management/service/ntp
Element Attributes	ntp_attributes
Partition Visibility	shared
Schema	`ntp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/ntp

ntp attributes

```
POST /axapi/v3/enable-management/service/ntp
Payload:
{
    "ntp": {
        "acl-v4-list": [
            {
                "acl-id": 1,
                "user-tag": "a"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/enable-management/service/ntp

ntp attributes

```
GET /axapi/v3/enable-management/service/ntp
Reponse:
{
    "ntp": {
        "uuid": "898a8216-b6a6-11ef-b71b-ae71681635d0",
        "acl-v4-list": [
            {
                "acl-id": 1,
```

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```
                "management": 0,
                "all-data-intf": 0,
                "uuid": "82904aee-b6c0-11ef-8f5a-ae71681635d0",
                "user-tag": "a",
                "a10-url": "/axapi/v3/enable-management/service/ntp/acl-v4/1"
            }
        ],
        "a10-url": "/axapi/v3/enable-management/service/ntp"
    }
}
```

Modify Object

POST

/axapi/v3/enable-management/service/ntp

ntp attributes

Replace Object

PUT

/axapi/v3/enable-management/service/ntp

ntp attributes

ntp attributes

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ntp/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ntp/acl-v6/{acl-name}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.24 enable-management service ntp acl-v4

IPv4 ACL for NTP service

acl-v4 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-id*
Collection Name	*acl-v4-list*
Collection URI	/axapi/v3/enable-management/service/ntp/acl-v4
Element Name	acl-v4
Element URI	/axapi/v3/enable-management/service/ntp/acl-v4/{acl-id}
Element Attributes	acl-v4_attributes
Partition Visibility	shared
Schema	`acl-v4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/ntp/acl-v4

acl-v4 attributes

```
POST /axapi/v3/enable-management/service/ntp/acl-v4/
Payload:
{
    "acl-v4": {
        "acl-id": 1,
```

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```
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/enable-management/service/ntp/acl-v4

acl-v4 attributes

Get Object

GET

/axapi/v3/enable-management/service/ntp/acl-v4/{acl-id}

acl-v4 attributes

```
GET /axapi/v3/enable-management/service/ntp/acl-v4/1
Reponse:
{
    "acl-v4": {
        "acl-id": 1,
        "management": 0,
        "all-data-intf": 0,
        "uuid": "ae627566-b6c0-11ef-8f5a-ae71681635d0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/enable-management/service/ntp/acl-v4/1"
    }
}
```

Get List

GET

/axapi/v3/enable-management/service/ntp/acl-v4

acl-v4-list

Modify Object

POST

/axapi/v3/enable-management/service/ntp/acl-v4/{acl-id}

acl-v4 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/ntp/acl-v4/{acl-id}

acl-v4 attributes

```
PUT /axapi/v3/enable-management/service/ntp/acl-v4/1
Payload:
```

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```
{
    "acl-v4": {
        "acl-id": 1,
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/enable-management/service/ntp/acl-v4

acl-v4-list

Delete Object

DELETE

/axapi/v3/enable-management/service/ntp/acl-v4/{acl-id}

acl-v4 attributes

```
DELETE /axapi/v3/enable-management/service/ntp/acl-v4/1
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

acl-v4-list

acl-v4-list is **JSON List** of *acl-v4 attributes*

acl-v4-list : [

{ *acl-v4 attributes* },

{ *acl-v4 attributes* },

...

]

acl-v4 attributes

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.25 enable-management service ntp acl-v6

IPv6 ACL for NTP service

acl-v6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-name*
Collection Name	*acl-v6-list*
Collection URI	/axapi/v3/enable-management/service/ntp/acl-v6
Element Name	acl-v6
Element URI	/axapi/v3/enable-management/service/ntp/acl-v6/{acl-name}
Element Attributes	acl-v6_attributes
Partition Visibility	shared
Schema	`acl-v6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/ntp/acl-v6

acl-v6 attributes

```
POST /axapi/v3/enable-management/service/ntp/acl-v6/
Payload:
{
    "acl-v6": {
        "acl-name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/enable-management/service/ntp/acl-v6

acl-v6 attributes

Get Object

GET

/axapi/v3/enable-management/service/ntp/acl-v6/{acl-name}

acl-v6 attributes

```
GET /axapi/v3/enable-management/service/ntp/acl-v6/a
Reponse:
{
```

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```
    "acl-v6": {
        "acl-name": "a",
        "management": 0,
        "all-data-intf": 0,
        "uuid": "083da1c8-b6c1-11ef-8f5a-ae71681635d0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/enable-management/service/ntp/acl-v6/a"
    }
}
```

Get List

GET

/axapi/v3/enable-management/service/ntp/acl-v6

acl-v6-list

Modify Object

POST

/axapi/v3/enable-management/service/ntp/acl-v6/{acl-name}

acl-v6 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/ntp/acl-v6/{acl-name}

acl-v6 attributes

```
PUT /axapi/v3/enable-management/service/ntp/acl-v6/a
Payload:
{
    "acl-v6": {
        "acl-name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/enable-management/service/ntp/acl-v6

acl-v6-list

Delete Object

DELETE

/axapi/v3/enable-management/service/ntp/acl-v6/{acl-name}

acl-v6 attributes

```
DELETE /axapi/v3/enable-management/service/ntp/acl-v6/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

acl-v6-list

acl-v6-list is **JSON List** of *acl-v6 attributes*

acl-v6-list : [

{ *acl-v6 attributes* },

{ *acl-v6 attributes* },

...

]

acl-v6 attributes

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.26 enable-management service ping

Ping service

ping Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ping
Element URI	/axapi/v3/enable-management/service/ping
Element Attributes	ping_attributes
Partition Visibility	shared
Schema	`ping schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/ping

ping attributes

Get Object

GET

/axapi/v3/enable-management/service/ping

ping attributes

Modify Object

POST

/axapi/v3/enable-management/service/ping

ping attributes

Replace Object

PUT

/axapi/v3/enable-management/service/ping

ping attributes

ping attributes

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ping/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ping/acl-v6/{acl-name}*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.27 enable-management service ping acl-v4

IPv4 ACL for Ping service

acl-v4 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-id*
Collection Name	*acl-v4-list*
Collection URI	/axapi/v3/enable-management/service/ping/acl-v4
Element Name	acl-v4
Element URI	/axapi/v3/enable-management/service/ping/acl-v4/{acl-id}
Element Attributes	acl-v4_attributes
Partition Visibility	shared
Schema	`acl-v4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/ping/acl-v4

acl-v4 attributes

Create List

POST

/axapi/v3/enable-management/service/ping/acl-v4

acl-v4 attributes

Get Object

GET

/axapi/v3/enable-management/service/ping/acl-v4/{acl-id}

acl-v4 attributes

Get List

GET

/axapi/v3/enable-management/service/ping/acl-v4

acl-v4-list

Modify Object

POST

/axapi/v3/enable-management/service/ping/acl-v4/{acl-id}

acl-v4 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/ping/acl-v4/{acl-id}

acl-v4 attributes

Replace List

PUT

/axapi/v3/enable-management/service/ping/acl-v4

acl-v4-list

Delete Object

DELETE

/axapi/v3/enable-management/service/ping/acl-v4/{acl-id}

acl-v4 attributes

acl-v4-list

acl-v4-list is **JSON List** of *acl-v4 attributes*

acl-v4-list : [

{ *acl-v4 attributes* },

{ *acl-v4 attributes* },

...

]

acl-v4 attributes

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.28 enable-management service ping acl-v6

IPv6 ACL for Ping service

acl-v6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-name*
Collection Name	*acl-v6-list*
Collection URI	/axapi/v3/enable-management/service/ping/acl-v6
Element Name	acl-v6
Element URI	/axapi/v3/enable-management/service/ping/acl-v6/{acl-name}
Element Attributes	acl-v6_attributes
Partition Visibility	shared
Schema	`acl-v6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/ping/acl-v6

acl-v6 attributes

Create List

POST

/axapi/v3/enable-management/service/ping/acl-v6

acl-v6 attributes

Get Object

GET

/axapi/v3/enable-management/service/ping/acl-v6/{acl-name}

acl-v6 attributes

Get List

GET

/axapi/v3/enable-management/service/ping/acl-v6

acl-v6-list

Modify Object

POST

/axapi/v3/enable-management/service/ping/acl-v6/{acl-name}

acl-v6 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/ping/acl-v6/{acl-name}

acl-v6 attributes

Replace List

PUT

/axapi/v3/enable-management/service/ping/acl-v6

acl-v6-list

Delete Object

DELETE

/axapi/v3/enable-management/service/ping/acl-v6/{acl-name}

acl-v6 attributes

acl-v6-list

acl-v6-list is **JSON List** of *acl-v6 attributes*

```
acl-v6-list : [
        { acl-v6 attributes },
        { acl-v6 attributes },
        ...
    ]
```

acl-v6 attributes

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.29 enable-management service snmp

SNMP service

snmp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	snmp
Element URI	/axapi/v3/enable-management/service/snmp
Element Attributes	snmp_attributes
Partition Visibility	shared
Schema	`snmp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/snmp

snmp attributes

Get Object

GET

/axapi/v3/enable-management/service/snmp

snmp attributes

Modify Object

POST

/axapi/v3/enable-management/service/snmp

snmp attributes

Replace Object

PUT

/axapi/v3/enable-management/service/snmp

snmp attributes

snmp attributes

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/snmp/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/snmp/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.30 enable-management service snmp acl-v4

IPv4 ACL for SNMP service

acl-v4 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-id*
Collection Name	*acl-v4-list*
Collection URI	/axapi/v3/enable-management/service/snmp/acl-v4
Element Name	acl-v4
Element URI	/axapi/v3/enable-management/service/snmp/acl-v4/{acl-id}
Element Attributes	acl-v4_attributes
Partition Visibility	shared
Schema	`acl-v4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/snmp/acl-v4

acl-v4 attributes

Create List

POST

/axapi/v3/enable-management/service/snmp/acl-v4

acl-v4 attributes

Get Object

GET

/axapi/v3/enable-management/service/snmp/acl-v4/{acl-id}

acl-v4 attributes

Get List

GET

/axapi/v3/enable-management/service/snmp/acl-v4

acl-v4-list

Modify Object

POST

/axapi/v3/enable-management/service/snmp/acl-v4/{acl-id}

acl-v4 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/snmp/acl-v4/{acl-id}

acl-v4 attributes

Replace List

PUT

/axapi/v3/enable-management/service/snmp/acl-v4

acl-v4-list

Delete Object

DELETE

/axapi/v3/enable-management/service/snmp/acl-v4/{acl-id}

acl-v4 attributes

acl-v4-list

acl-v4-list is **JSON List** of *acl-v4 attributes*

```
acl-v4-list : [
        { acl-v4 attributes },
        { acl-v4 attributes },
        ...
    ]
```

acl-v4 attributes

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.31 enable-management service snmp acl-v6

IPv6 ACL for SNMP service

acl-v6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-name*
Collection Name	*acl-v6-list*
Collection URI	/axapi/v3/enable-management/service/snmp/acl-v6
Element Name	acl-v6
Element URI	/axapi/v3/enable-management/service/snmp/acl-v6/{acl-name}
Element Attributes	acl-v6_attributes
Partition Visibility	shared
Schema	`acl-v6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/snmp/acl-v6

acl-v6 attributes

Create List

POST

/axapi/v3/enable-management/service/snmp/acl-v6

acl-v6 attributes

Get Object

GET

/axapi/v3/enable-management/service/snmp/acl-v6/{acl-name}

acl-v6 attributes

Get List

GET

/axapi/v3/enable-management/service/snmp/acl-v6

acl-v6-list

Modify Object

POST

/axapi/v3/enable-management/service/snmp/acl-v6/{acl-name}

acl-v6 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/snmp/acl-v6/{acl-name}

acl-v6 attributes

Replace List

PUT

/axapi/v3/enable-management/service/snmp/acl-v6

acl-v6-list

Delete Object

DELETE

/axapi/v3/enable-management/service/snmp/acl-v6/{acl-name}

acl-v6 attributes

acl-v6-list

acl-v6-list is **JSON List** of *acl-v6 attributes*

```
acl-v6-list : [
        { acl-v6 attributes },
        { acl-v6 attributes },
        ...
    ]
```

acl-v6 attributes

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.32 enable-management service ssh

SSH service

ssh Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ssh
Element URI	/axapi/v3/enable-management/service/ssh
Element Attributes	ssh_attributes
Partition Visibility	shared
Schema	`ssh schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/ssh

ssh attributes

Get Object

GET

/axapi/v3/enable-management/service/ssh

ssh attributes

Modify Object

POST

/axapi/v3/enable-management/service/ssh

ssh attributes

Replace Object

PUT

/axapi/v3/enable-management/service/ssh

ssh attributes

ssh attributes

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ssh/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/ssh/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.33 enable-management service ssh acl-v4

IPv4 ACL for SSH service

acl-v4 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-id*
Collection Name	*acl-v4-list*
Collection URI	/axapi/v3/enable-management/service/ssh/acl-v4
Element Name	acl-v4
Element URI	/axapi/v3/enable-management/service/ssh/acl-v4/{acl-id}
Element Attributes	acl-v4_attributes
Partition Visibility	shared
Schema	`acl-v4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/ssh/acl-v4

acl-v4 attributes

Create List

POST

/axapi/v3/enable-management/service/ssh/acl-v4

acl-v4 attributes

Get Object

GET

/axapi/v3/enable-management/service/ssh/acl-v4/{acl-id}

acl-v4 attributes

Get List

GET

/axapi/v3/enable-management/service/ssh/acl-v4

acl-v4-list

Modify Object

POST

/axapi/v3/enable-management/service/ssh/acl-v4/{acl-id}

acl-v4 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/ssh/acl-v4/{acl-id}

acl-v4 attributes

Replace List

PUT

/axapi/v3/enable-management/service/ssh/acl-v4

acl-v4-list

Delete Object

DELETE

/axapi/v3/enable-management/service/ssh/acl-v4/{acl-id}

acl-v4 attributes

acl-v4-list

acl-v4-list is **JSON List** of *acl-v4 attributes*

acl-v4-list : [

{ *acl-v4 attributes* },

{ *acl-v4 attributes* },

…

]

acl-v4 attributes

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.34 enable-management service ssh acl-v6

IPv6 ACL for SSH service

acl-v6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-name*
Collection Name	*acl-v6-list*
Collection URI	/axapi/v3/enable-management/service/ssh/acl-v6
Element Name	acl-v6
Element URI	/axapi/v3/enable-management/service/ssh/acl-v6/{acl-name}
Element Attributes	acl-v6_attributes
Partition Visibility	shared
Schema	`acl-v6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/ssh/acl-v6

acl-v6 attributes

Create List

POST

/axapi/v3/enable-management/service/ssh/acl-v6

acl-v6 attributes

Get Object

GET

/axapi/v3/enable-management/service/ssh/acl-v6/{acl-name}

acl-v6 attributes

Get List

GET

/axapi/v3/enable-management/service/ssh/acl-v6

acl-v6-list

Modify Object

POST

/axapi/v3/enable-management/service/ssh/acl-v6/{acl-name}

acl-v6 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/ssh/acl-v6/{acl-name}

acl-v6 attributes

Replace List

PUT

/axapi/v3/enable-management/service/ssh/acl-v6

acl-v6-list

Delete Object

DELETE

/axapi/v3/enable-management/service/ssh/acl-v6/{acl-name}

acl-v6 attributes

acl-v6-list

acl-v6-list is **JSON List** of *acl-v6 attributes*

```
acl-v6-list : [
        { acl-v6 attributes },
        { acl-v6 attributes },
        ...
    ]
```

acl-v6 attributes

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.35 enable-management service telnet

Telnet service

telnet Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	telnet
Element URI	/axapi/v3/enable-management/service/telnet
Element Attributes	telnet_attributes
Partition Visibility	shared
Schema	`telnet schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/telnet

telnet attributes

Get Object

GET

/axapi/v3/enable-management/service/telnet

telnet attributes

Modify Object

POST

/axapi/v3/enable-management/service/telnet

telnet attributes

Replace Object

PUT

/axapi/v3/enable-management/service/telnet

telnet attributes

telnet attributes

acl-v4-list

Type: List

Reference Object: */axapi/v3/enable-management/service/telnet/acl-v4/{acl-id}*

acl-v6-list

Type: List

Reference Object: */axapi/v3/enable-management/service/telnet/acl-v6/{acl-name}*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v6-list

Specification	Value
Type	*list*
Block object keys	

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v6-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v6-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v6-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v4-list

Specification	Value
Type	*list*
Block object keys	

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

acl-v4-list_tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

acl-v4-list_ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

acl-v4-list_eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.36 enable-management service telnet acl-v4

IPv4 ACL for Telnet service

acl-v4 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-id*
Collection Name	*acl-v4-list*
Collection URI	/axapi/v3/enable-management/service/telnet/acl-v4
Element Name	acl-v4
Element URI	/axapi/v3/enable-management/service/telnet/acl-v4/{acl-id}
Element Attributes	acl-v4_attributes
Partition Visibility	shared
Schema	`acl-v4 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/telnet/acl-v4

acl-v4 attributes

Create List

POST

/axapi/v3/enable-management/service/telnet/acl-v4

acl-v4 attributes

Get Object

GET

/axapi/v3/enable-management/service/telnet/acl-v4/{acl-id}

acl-v4 attributes

Get List

GET

/axapi/v3/enable-management/service/telnet/acl-v4

acl-v4-list

Modify Object

POST

/axapi/v3/enable-management/service/telnet/acl-v4/{acl-id}

acl-v4 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/telnet/acl-v4/{acl-id}

acl-v4 attributes

Replace List

PUT

/axapi/v3/enable-management/service/telnet/acl-v4

acl-v4-list

Delete Object

DELETE

/axapi/v3/enable-management/service/telnet/acl-v4/{acl-id}

acl-v4 attributes

acl-v4-list

acl-v4-list is **JSON List** of *acl-v4 attributes*

```
acl-v4-list : [
        { acl-v4 attributes },
        { acl-v4 attributes },
        ...
    ]
```

acl-v4 attributes

acl-id

Description ACL id

Type: number

Range: 1-199

Reference Object: */axapi/v3/access-list/standard*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.37 enable-management service telnet acl-v6

IPv6 ACL for Telnet service

acl-v6 Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*acl-name*
Collection Name	*acl-v6-list*
Collection URI	/axapi/v3/enable-management/service/telnet/acl-v6
Element Name	acl-v6
Element URI	/axapi/v3/enable-management/service/telnet/acl-v6/{acl-name}
Element Attributes	acl-v6_attributes
Partition Visibility	shared
Schema	`acl-v6 schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/service/telnet/acl-v6

acl-v6 attributes

Create List

POST

/axapi/v3/enable-management/service/telnet/acl-v6

acl-v6 attributes

Get Object

GET

/axapi/v3/enable-management/service/telnet/acl-v6/{acl-name}

acl-v6 attributes

Get List

GET

/axapi/v3/enable-management/service/telnet/acl-v6

acl-v6-list

Modify Object

POST

/axapi/v3/enable-management/service/telnet/acl-v6/{acl-name}

acl-v6 attributes

Replace Object

PUT

/axapi/v3/enable-management/service/telnet/acl-v6/{acl-name}

acl-v6 attributes

Replace List

PUT

/axapi/v3/enable-management/service/telnet/acl-v6

acl-v6-list

Delete Object

DELETE

/axapi/v3/enable-management/service/telnet/acl-v6/{acl-name}

acl-v6 attributes

acl-v6-list

acl-v6-list is **JSON List** of *acl-v6 attributes*

```
acl-v6-list : [
        { acl-v6 attributes },
        { acl-v6 attributes },
        ...
    ]
```

acl-v6 attributes

acl-name

Description ACL name

Type: string

Maximum Length: 16 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/ipv6/access-list*

all-data-intf

Description All Data Interfaces

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

eth-cfg

Type: List

management

Description Management Interface

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tunnel-cfg

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ve-cfg

Type: List

tunnel-cfg

Specification	Value
Type	*list*
Block object keys	

tunnel-end

Description tunnel port

Type: number

tunnel-start

Description tunnel port (tunnel Interface number)

Type: number

ve-cfg

Specification	Value
Type	*list*
Block object keys	

ve-end

Description VE port

Type: number

ve-start

Description VE port (VE Interface number)

Type: number

eth-cfg

Specification	Value
Type	*list*
Block object keys	

ethernet-end

Description Ethernet port

Type: number

Format: interface

ethernet-start

Description Ethernet port (Ethernet Interface number)

Type: number

Format: interface

2.44.38 enable-management snmp

snmp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	snmp
Element URI	/axapi/v3/enable-management/snmp
Element Attributes	snmp_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/enable-management/snmp/oper
Schema	`snmp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/snmp

snmp attributes

Get Object

GET

/axapi/v3/enable-management/snmp

snmp attributes

Modify Object

POST

/axapi/v3/enable-management/snmp

snmp attributes

Replace Object

PUT

/axapi/v3/enable-management/snmp

snmp attributes

Delete Object

DELETE

/axapi/v3/enable-management/snmp

snmp attributes

snmp attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.44.39 enable-management snmp oper

Operational Status for the object snmp

snmp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	snmp
Element URI	/axapi/v3/enable-management/snmp/oper
Element Attributes	snmp_attributes
Partition Visibility	None
Schema	`snmp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/snmp/oper

snmp attributes

Get Object

GET

/axapi/v3/enable-management/snmp/oper

snmp attributes

Modify Object

POST

/axapi/v3/enable-management/snmp/oper

snmp attributes

Replace Object

PUT

/axapi/v3/enable-management/snmp/oper

snmp attributes

Delete Object

DELETE

/axapi/v3/enable-management/snmp/oper

snmp attributes

snmp attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

port-list

Type: List

oper_port-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

ethernet

Description

Type: number

ipv4-acl

Description

Type: string

ipv6-acl

Description

Type: string

management

Description

Type: number

tunnel

Description

Type: number

ve

Description

Type: number

2.44.40 enable-management ssh

ssh Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ssh
Element URI	/axapi/v3/enable-management/ssh
Element Attributes	ssh_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/enable-management/ssh/oper
Schema	`ssh schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/ssh

ssh attributes

Get Object

GET

/axapi/v3/enable-management/ssh

ssh attributes

Modify Object

POST

/axapi/v3/enable-management/ssh

ssh attributes

Replace Object

PUT

/axapi/v3/enable-management/ssh

ssh attributes

Delete Object

DELETE

/axapi/v3/enable-management/ssh

ssh attributes

ssh attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.44.41 enable-management ssh oper

Operational Status for the object ssh

ssh Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ssh
Element URI	/axapi/v3/enable-management/ssh/oper
Element Attributes	ssh_attributes
Partition Visibility	None
Schema	`ssh schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/ssh/oper

ssh attributes

Get Object

GET

/axapi/v3/enable-management/ssh/oper

ssh attributes

Modify Object

POST

/axapi/v3/enable-management/ssh/oper

ssh attributes

Replace Object

PUT

/axapi/v3/enable-management/ssh/oper

ssh attributes

Delete Object

DELETE

/axapi/v3/enable-management/ssh/oper

ssh attributes

ssh attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

port-list

Type: List

oper_port-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

ethernet

Description

Type: number

ipv4-acl

Description

Type: string

ipv6-acl

Description

Type: string

management

Description

Type: number

tunnel

Description

Type: number

ve

Description

Type: number

2.44.42 enable-management telnet

telnet Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	telnet
Element URI	/axapi/v3/enable-management/telnet
Element Attributes	telnet_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/enable-management/telnet/oper
Schema	`telnet schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/telnet

telnet attributes

Get Object

GET

/axapi/v3/enable-management/telnet

telnet attributes

Modify Object

POST

/axapi/v3/enable-management/telnet

telnet attributes

Replace Object

PUT

/axapi/v3/enable-management/telnet

telnet attributes

Delete Object

DELETE

/axapi/v3/enable-management/telnet

telnet attributes

telnet attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.44.43 enable-management telnet oper

Operational Status for the object telnet

telnet Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	telnet
Element URI	/axapi/v3/enable-management/telnet/oper
Element Attributes	telnet_attributes
Partition Visibility	None
Schema	`telnet schema`

Operations Allowed:

Create Object

POST

/axapi/v3/enable-management/telnet/oper

telnet attributes

Get Object

GET

/axapi/v3/enable-management/telnet/oper

telnet attributes

Modify Object

POST

/axapi/v3/enable-management/telnet/oper

telnet attributes

Replace Object

PUT

/axapi/v3/enable-management/telnet/oper

telnet attributes

Delete Object

DELETE

/axapi/v3/enable-management/telnet/oper

telnet attributes

telnet attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

port-list

Type: List

oper_port-list

Specification	Value
Type	*list*
Block object keys	

action

Description

Type: string

ethernet

Description

Type: number

ipv4-acl

Description

Type: string

ipv6-acl

Description

Type: string

management

Description

Type: number

tunnel

Description

Type: number

ve

Description

Type: number

2.45 environment

Objects:

2.45.1 environment

environment status colletion parameters

environment Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	environment
Element URI	/axapi/v3/environment
Element Attributes	environment_attributes
Partition Visibility	shared
Schema	`environment schema`

Operations Allowed:

Create Object

POST

/axapi/v3/environment

environment attributes

```
POST /axapi/v3/environment
Payload:
{
    "environment": {
        "update-interval": {
```

(continues on next page)

(continued from previous page)

```
            "interval": 1
        }
    }
}
```

Get Object

GET

/axapi/v3/environment

environment attributes

Modify Object

POST

/axapi/v3/environment

environment attributes

Replace Object

PUT

/axapi/v3/environment

environment attributes

Delete Object

DELETE

/axapi/v3/environment

environment attributes

environment attributes

threshold-cfg

Description: threshold-cfg is a **JSON Block**. Please see below for *threshold-cfg*

Type: Object

update-interval

Description: update-interval is a **JSON Block**. Please see below for *update-interval*

Type: Object

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

update-interval

Specification	Value
Type	*object*

interval

Description Interval

Type: number

Range: 1-60

Default: 30

threshold-cfg

Specification	Value
Type	*object*

high

Description High threshold value in Celsius - default 1

Type: number

low

Description Low threshold value in Celsius - default 1

Type: number

medium

Description Medium threshold value in Celsius - default 1

Type: number

2.46 event

Objects:

2.46.1 event

configure event actions

event Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	event
Element URI	/axapi/v3/event
Element Attributes	event_attributes
Partition Visibility	shared
Schema	`event schema`

Operations Allowed:

Get Object

GET

/axapi/v3/event

event_attributes

event attributes

partition-list

Type: List

Reference Object: */axapi/v3/event/partition/{vnp-events}*

partition-list

Specification	Value
Type	*list*
Block object keys	

email

Description 'on': enable this action; 'off': disable this action;

Type: string

Supported Values: on, off

logging

Description 'on': enable this action; 'off': disable this action;

Type: string

Supported Values: on, off

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vnp-events

Description 'part-create': Create new partition; 'part-del': Delete a partition;

Type: string

Supported Values: part-create, part-del

2.46.2 event partition

module partition

partition Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*vnp-events*
Collection Name	*partition-list*
Collection URI	/axapi/v3/event/partition
Element Name	partition
Element URI	/axapi/v3/event/partition/{vnp-events}
Element Attributes	partition_attributes
Partition Visibility	shared
Schema	`partition schema`

Operations Allowed:

Create Object

POST

/axapi/v3/event/partition

partition attributes

```
POST /axapi/v3/event/partition/
Payload:
{
    "partition": {
        "vnp-events": "part-create",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/event/partition

partition attributes

Get Object

GET

/axapi/v3/event/partition/{vnp-events}

partition attributes

```
GET /axapi/v3/event/partition/part-create
Reponse:
{
    "partition": {
        "vnp-events": "part-create",
        "uuid": "4ba3ebce-b6c2-11ef-8f5a-ae71681635d0",
        "user-tag": "a",
        "a10-url": "/axapi/v3/event/partition/part-create"
    }
}
```

Get List

GET

/axapi/v3/event/partition

partition-list

Modify Object

POST

/axapi/v3/event/partition/{vnp-events}

partition attributes

Replace Object

PUT

/axapi/v3/event/partition/{vnp-events}

partition attributes

```
PUT /axapi/v3/event/partition/part-create
Payload:
{
    "partition": {
        "vnp-events": "part-create",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/event/partition

partition-list

Delete Object

DELETE

/axapi/v3/event/partition/{vnp-events}

partition attributes

```
DELETE /axapi/v3/event/partition/part-create
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

partition-list

partition-list is **JSON List** of *partition attributes*

partition-list : [

{ *partition attributes* },

{ *partition attributes* },

...

]

partition attributes

email

Description 'on': enable this action; 'off': disable this action;

Type: string

Supported Values: on, off

logging

Description 'on': enable this action; 'off': disable this action;

Type: string

Supported Values: on, off

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vnp-events

Description 'part-create': Create new partition; 'part-del': Delete a partition;

Type: string

Supported Values: part-create, part-del

2.47 event-notification

Objects:

2.47.1 event-notification

Event notification type

event-notification Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	event-notification
Element URI	/axapi/v3/event-notification
Element Attributes	event-notification_attributes
Partition Visibility	shared
Schema	`event-notification schema`

Operations Allowed:

Get Object

GET

/axapi/v3/event-notification

event-notification_attributes

event-notification attributes

kafka

Description: kafka is a **JSON Block**. Please see below for *kafka*

Type: Object

Reference Object: */axapi/v3/event-notification/kafka*

kafka

Specification	Value
Type	*object*

server

Description: server is a **JSON Block**. Please see below for *kafka_server*

Type: Object

Reference Object: */axapi/v3/event-notification/kafka/server*

kafka_server

Specification	Value
Type	*object*

host-ipv4

Description Set kafka Broker ip address or hostname

Type: string

Format: host

port

Description Set remote kafka port number (Remote kafka port number 1-32767, default is 9092)

Type: number

Range: 1-32767

Default: 9092

sampling-enable

Type: List

use-mgmt-port

Description Use management port for connections

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

kafka_server_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'pr-acos-harmony-topic': L7 PR logs sent; 'avro-device-status-topic': Device Status Metrics sent; 'avro-partition-metrics-topic': Partition Metrics sent; 'avro-generic-sent': Generic Metrics sent; 'pr-acos-harmony-topic-enqueue-err': L7 PR dropped,enq error on acos queues; 'pr-acos-harmony-topic-dequeue-err': L7 PR dropped,enq error analytics queues; 'avro-generic-failed-encoding': Generic Metrics dropped,encoding error; 'avro-generic-failed-sending': Generic Metrics dropped,sending failure; 'avro-device-status-topic-enqueue-err': Device Status dropped,enq error on acos queues; 'avro-device-status-topic-dequeue-err': Device Status dropped,enq error analytics queues; 'avro-partition-metrics-topic-enqueue-err': Part metrics dropped,enq error on acos queues; 'avro-partition-metrics-topic-dequeue-err': Part metrics dropped,enq error analytics queues; 'kafka-unknown-topic-dequeue-err': Unknown type dropped,enq error analytics queues; 'kafka-broker-down': Messages dropped,analytics down; 'kafka-queue-full-err': Messages dropped,acos analytics queue full; 'pr-throttle-drop': L7 PR dropped,log throttling; 'pr-not-allowed-drop': L7 PR dropped, not allowed to be sent; 'pr-be-ttfb-anomaly': L7 PR back-end ttfb is negative; 'pr-be-ttlb-anomaly': L7 PR back-end ttlb is negative; 'pr-in-latency-threshold-exceed': L7 PR on latency threshold exceeded; 'pr-out-latency-threshold-exceed': L7 PR out latency threshold exceeded; 'pr-out-latency-anomaly': L7 PR out latency negative; 'pr-in-latency-anomaly': L7 PR on latency negative; 'kafka-topic-error': Module not supported by analytics; 'pc-encoding-failed': L4 PC logs dropped,encoding error; 'pc-acos-harmony-topic': L4 PC logs sent; 'pc-acos-harmony-topic-dequeue-err': L4 PC logs dropped,enq error analytics queues; 'cgn-pc-acos-harmony-topic': CGN PC logs sent; 'cgn-pc-acos-harmony-topic-dequeue-err': CGN PC logs dropped,enq error analytics queues; 'cgn-pe-acos-harmony-topic': CGN PE logs sent; 'cgn-pe-acos-harmony-topic-dequeue-err': CGN PE logs dropped,enq error analytics queues; 'fw-pc-acos-harmony-topic': FW PC logs sent; 'fw-pc-acos-harmony-topic-dequeue-err': FW PC logs dropped,enq error analytics queues; 'fw-deny-pc-acos-harmony-topic': FW DENY PC logs sent; 'fw-deny-pc-acos-harmony-topic-dequeue-err': FW DENY PC logs dropped,enq error analytics queues; 'fw-rst-pc-acos-harmony-topic': FW RST PC logs sent; 'fw-rst-pc-acos-harmony-topic-dequeue-err': FW RST PC logs dropped,enq error analytics queues; 'cgn-summary-error-acos-harmony-topic': CGN PE logs sent; 'cgn-summary-error-acos-harmony-topic-dequeue-err': CGN PE logs dropped,enq error analytics queues; 'rule-set-application-metrics-topic': AppFW metrics sent; 'rule-set-application-metrics-topic-dequeue-err': AppFW metrics dropped,enq error analytics queues; 'slb-ssl-stats-metrics-topic': SSL metrics sent; 'slb-ssl-stats-metrics-topic-dequeue-err': SSL metrics dropped,enq error analytics queues; 'slb-client-ssl-counters-metrics-topic': Client SSL metrics sent; 'slb-client-ssl-counters-metrics-topic-dequeue-err': Cilent SSL metrics dropped,enq error analytics qs; 'slb-server-ssl-counters-metrics-topic': Server SSL metrics sent; 'slb-server-ssl-counters-metrics-topic-dequeue-err': Server SSL metrics dropped,enq error analytics qs; 'pc-throttle-drop': L4

PC logs dropped,throttling; 'metrics-dropped-pt-missing': Metrics dropped,missing partition tenant mapping; 'ssli-pc-acos-harmony-topic': SSLi PC topic counter from acos to harmony; 'ssli-pc-acos-harmony-topic-dequeue-err': SSLi PC topic to harmony dequeue error; 'ssli-pe-acos-harmony-topic': SSLi PE topic counter from acos to harmony; 'ssli-pe-acos-harmony-topic-dequeue-err': SSLi PE topic to harmony dequeue error; 'analytics-bus-restart': Analytics bus restart count; 'waf-learn-pr-topic': WAF learn topic counter; 'waf-learn-pr-topic-dequeue-err': WAF learn metrics dropped,enq error analytics qs; 'waf-events-topic': WAF events topic counter; 'waf-events-topic-dequeue-err': WAF events metrics dropped,enq error analytics qs; 'visibility-topn-harmony-topic': Visibility TopN sent; 'visibility-topn-harmony-topic-dequeue-err': Visibility TopN metrics dropped,enq error analytics qs; 'hc-logs-sent-to-master': HC logs sent to master; 'hc-logs-received-from-blade': HC logs received from blade; 'hc-oper-sent-to-master': HC oper to master; 'hc-oper-received-from-blade': HC oper received from blade; 'hc-counters-sent-to-master': HC counters sent to master; 'hc-counters-received-from-blade': HC counters received from blade; 'hc-counters-dropped-from-blade': HC counters dropped from blade (uuid or size mismatch); 'pe-acos-harmony-topic': L7 PE logs sent; 'pe-acos-harmony-topic-enqueue-err': L7 PE dropped,enq error on acos queues; 'pe-acos-harmony-topic-dequeue-err': L7 PE dropped,enq error analytics queues; 'vpn-ipsec-sa-metrics-topic': IPSec SA metrics sent; 'vpn-ipsec-sa-metrics-topic-dequeue-err': IPSec SA metrics dropped,enq error analytics qs; 'vpn-ike-gateway-metrics-topic': IKE gateway metrics sent; 'vpn-ike-gateway-metrics-topic-dequeue-err': IKE gateway metrics dropped,enq error analytics qs; 'vpn-stats-metrics-topic': VPN STATS metrics sent; 'vpn-stats-metrics-topic-dequeue-err': VPN STATS metrics dropped,enq error analytics qs; 'cgn-port-usage-hstgrm-acos-harmony-topic': CGN Port Usage Histogram HC Export; 'cgn-port-usage-hstgrm-acos-harmony-topic-dequeue-err': CGN Port Usage Histogram HC Export Failed; 'avro-system-env-topic': System environment sent; 'avro-system-env-dequeue-err': System Environmet dropped,enq error analytics queues; 'cert-pinning-list-topic': Cert-pinning candidate list sent; 'cert-pinning-list-topic-dequeue-err': Cert-pinning candidate list dropped,enq error analytics queues; 'ngwaf-hc-ep-topic': NGWAF HC PE export; 'ngwaf-hc-ep-topic-dequeue-err': NGWAF HC PE export failed; 'ngwaf-hc-metrics-topic': NGWAF HC metrics export; 'ngwaf-hc-metrics-topic-dequeue-err': NGWAF HC metrics export failed;

Type: string

Supported Values: all, pr-acos-harmony-topic, avro-device-status-topic, avro-partition-metrics-topic, avro-generic-sent, pr-acos-harmony-topic-enqueue-err, pr-acos-harmony-topic-dequeue-err, avro-generic-failed-encoding, avro-generic-failed-sending, avro-device-status-topic-enqueue-err, avro-device-status-topic-dequeue-err, avro-partition-metrics-topic-enqueue-err, avro-partition-metrics-topic-dequeue-err, kafka-unknown-topic-dequeue-err, kafka-broker-down, kafka-queue-full-err, pr-throttle-drop, pr-not-allowed-drop, pr-be-ttfb-anomaly, pr-be-ttlb-anomaly, pr-in-latency-threshold-exceed, pr-out-latency-threshold-exceed, pr-out-latency-anomaly, pr-in-latency-anomaly, kafka-topic-error, pc-encoding-failed, pc-acos-harmony-topic, pc-acos-harmony-topic-dequeue-err, cgn-pc-acos-harmony-topic, cgn-pc-acos-harmony-topic-dequeue-err, cgn-pe-acos-harmony-topic, cgn-pe-acos-harmony-topic-dequeue-err, fw-pc-acos-harmony-topic, fw-pc-acos-harmony-topic-dequeue-err, fw-deny-pc-acos-harmony-topic, fw-deny-pc-acos-harmony-topic-dequeue-err, fw-rst-pc-acos-harmony-topic, fw-rst-pc-acos-harmony-topic-dequeue-err, cgn-summary-error-acos-harmony-topic, cgn-summary-error-acos-harmony-topic-dequeue-err, rule-set-application-metrics-topic, rule-set-application-metrics-topic-dequeue-err, slb-ssl-stats-metrics-topic, slb-ssl-stats-metrics-topic-dequeue-err, slb-client-ssl-counters-metrics-topic, slb-client-ssl-counters-metrics-topic-dequeue-err, slb-server-ssl-counters-metrics-topic, slb-server-ssl-counters-metrics-topic-dequeue-err, pc-throttle-drop, metrics-dropped-pt-missing, ssli-pc-acos-harmony-topic, ssli-pc-acos-harmony-topic-dequeue-err, ssli-pe-acos-harmony-topic, ssli-pe-acos-harmony-topic-dequeue-err, analytics-bus-restart, waf-learn-pr-topic, waf-learn-pr-topic-dequeue-err, waf-events-topic, waf-events-topic-dequeue-err, visibility-topn-harmony-topic, visibility-topn-harmony-topic-dequeue-err, hc-logs-sent-to-master, hc-logs-received-from-blade,

hc-oper-sent-to-master, hc-oper-received-from-blade, hc-counters-sent-to-master, hc-counters-received-from-blade, hc-counters-dropped-from-blade, pe-acos-harmony-topic, pe-acos-harmony-topic-enqueue-err, pe-acos-harmony-topic-dequeue-err, vpn-ipsec-sa-metrics-topic, vpn-ipsec-sa-metrics-topic-dequeue-err, vpn-ike-gateway-metrics-topic, vpn-ike-gateway-metrics-topic-dequeue-err, vpn-stats-metrics-topic, vpn-stats-metrics-topic-dequeue-err, cgn-port-usage-hstgrm-acos-harmony-topic, cgn-port-usage-hstgrm-acos-harmony-topic-dequeue-err, avro-system-env-topic, avro-system-env-dequeue-err, cert-pinning-list-topic, cert-pinning-list-topic-dequeue-err, ngwaf-hc-ep-topic, ngwaf-hc-ep-topic-dequeue-err, ngwaf-hc-metrics-topic, ngwaf-hc-metrics-topic-dequeue-err

2.47.2 event-notification kafka

Set parameters for kafka server

kafka Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	kafka
Element URI	/axapi/v3/event-notification/kafka
Element Attributes	kafka_attributes
Partition Visibility	shared
Schema	`kafka schema`

Operations Allowed:

Get Object

GET

/axapi/v3/event-notification/kafka

kafka_attributes

kafka attributes

server

Description: server is a **JSON Block**. Please see below for *server*

Type: Object

Reference Object: */axapi/v3/event-notification/kafka/server*

server

Specification	Value
Type	*object*

host-ipv4

Description Set kafka Broker ip address or hostname

Type: string

Format: host

port

Description Set remote kafka port number (Remote kafka port number 1-32767, default is 9092)

Type: number

Range: 1-32767

Default: 9092

sampling-enable

Type: List

use-mgmt-port

Description Use management port for connections

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'pr-acos-harmony-topic': L7 PR logs sent; 'avro-device-status-topic': Device Status Metrics sent; 'avro-partition-metrics-topic': Partition Metrics sent; 'avro-generic-sent': Generic Metrics sent; 'pr-acos-harmony-topic-enqueue-err': L7 PR dropped,enq

error on acos queues; 'pr-acos-harmony-topic-dequeue-err': L7 PR dropped,enq error analytics queues; 'avro-generic-failed-encoding': Generic Metrics dropped,encoding error; 'avro-generic-failed-sending': Generic Metrics dropped,sending failure; 'avro-device-status-topic-enqueue-err': Device Status dropped,enq error on acos queues; 'avro-device-status-topic-dequeue-err': Device Status dropped,enq error analytics queues; 'avro-partition-metrics-topic-enqueue-err': Part metrics dropped,enq error on acos queues; 'avro-partition-metrics-topic-dequeue-err': Part metrics dropped,enq error analytics queues; 'kafka-unknown-topic-dequeue-err': Unknown type dropped,enq error analytics queues; 'kafka-broker-down': Messages dropped,analytics down; 'kafka-queue-full-err': Messages dropped,acos analytics queue full; 'pr-throttle-drop': L7 PR dropped,log throttling; 'pr-not-allowed-drop': L7 PR dropped, not allowed to be sent; 'pr-be-ttfb-anomaly': L7 PR back-end ttfb is negative; 'pr-be-ttlb-anomaly': L7 PR back-end ttlb is negative; 'pr-in-latency-threshold-exceed': L7 PR on latency threshold exceeded; 'pr-out-latency-threshold-exceed': L7 PR out latency threshold exceeded; 'pr-out-latency-anomaly': L7 PR out latency negative; 'pr-in-latency-anomaly': L7 PR on latency negative; 'kafka-topic-error': Module not supported by analytics; 'pc-encoding-failed': L4 PC logs dropped,encoding error; 'pc-acos-harmony-topic': L4 PC logs sent; 'pc-acos-harmony-topic-dequeue-err': L4 PC logs dropped,enq error analytics queues; 'cgn-pc-acos-harmony-topic': CGN PC logs sent; 'cgn-pc-acos-harmony-topic-dequeue-err': CGN PC logs dropped,enq error analytics queues; 'cgn-pe-acos-harmony-topic': CGN PE logs sent; 'cgn-pe-acos-harmony-topic-dequeue-err': CGN PE logs dropped,enq error analytics queues; 'fw-pc-acos-harmony-topic': FW PC logs sent; 'fw-pc-acos-harmony-topic-dequeue-err': FW PC logs dropped,enq error analytics queues; 'fw-deny-pc-acos-harmony-topic': FW DENY PC logs sent; 'fw-deny-pc-acos-harmony-topic-dequeue-err': FW DENY PC logs dropped,enq error analytics queues; 'fw-rst-pc-acos-harmony-topic': FW RST PC logs sent; 'fw-rst-pc-acos-harmony-topic-dequeue-err': FW RST PC logs dropped,enq error analytics queues; 'cgn-summary-error-acos-harmony-topic': CGN PE logs sent; 'cgn-summary-error-acos-harmony-topic-dequeue-err': CGN PE logs dropped,enq error analytics queues; 'rule-set-application-metrics-topic': AppFW metrics sent; 'rule-set-application-metrics-topic-dequeue-err': AppFW metrics dropped,enq error analytics queues; 'slb-ssl-stats-metrics-topic': SSL metrics sent; 'slb-ssl-stats-metrics-topic-dequeue-err': SSL metrics dropped,enq error analytics queues; 'slb-client-ssl-counters-metrics-topic': Client SSL metrics sent; 'slb-client-ssl-counters-metrics-topic-dequeue-err': Cilent SSL metrics dropped,enq error analytics qs; 'slb-server-ssl-counters-metrics-topic': Server SSL metrics sent; 'slb-server-ssl-counters-metrics-topic-dequeue-err': Server SSL metrics dropped,enq error analytics qs; 'pc-throttle-drop': L4 PC logs dropped,throttling; 'metrics-dropped-pt-missing': Metrics dropped,missing partition tenant mapping; 'ssli-pc-acos-harmony-topic': SSLi PC topic counter from acos to harmony; 'ssli-pc-acos-harmony-topic-dequeue-err': SSLi PC topic to harmony dequeue error; 'ssli-pe-acos-harmony-topic': SSLi PE topic counter from acos to harmony; 'ssli-pe-acos-harmony-topic-dequeue-err': SSLi PE topic to harmony dequeue error; 'analytics-bus-restart': Analytics bus restart count; 'waf-learn-pr-topic': WAF learn topic counter; 'waf-learn-pr-topic-dequeue-err': WAF learn metrics dropped,enq error analytics qs; 'waf-events-topic': WAF events topic counter; 'waf-events-topic-dequeue-err': WAF events metrics dropped,enq error analytics qs; 'visibility-topn-harmony-topic': Visibility TopN sent; 'visibility-topn-harmony-topic-dequeue-err': Visibility TopN metrics dropped,enq error analytics qs; 'hc-logs-sent-to-master': HC logs sent to master; 'hc-logs-received-from-blade': HC logs received from blade; 'hc-oper-sent-to-master': HC oper to master; 'hc-oper-received-from-blade': HC oper received from blade; 'hc-counters-sent-to-master': HC counters sent to master; 'hc-counters-received-from-blade': HC counters received from blade; 'hc-counters-dropped-from-blade': HC counters dropped from blade (uuid or size mismatch); 'pe-acos-harmony-topic': L7 PE logs sent; 'pe-acos-harmony-topic-enqueue-err': L7 PE dropped,enq error on acos queues; 'pe-acos-harmony-topic-dequeue-err': L7 PE dropped,enq error analytics queues; 'vpn-ipsec-sa-metrics-topic': IPSec SA metrics sent; 'vpn-ipsec-sa-metrics-topic-dequeue-err': IPSec SA metrics dropped,enq error analytics qs; 'vpn-ike-gateway-metrics-topic': IKE gateway metrics sent; 'vpn-ike-gateway-metrics-topic-dequeue-err': IKE gateway metrics dropped,enq er-

ror analytics qs; 'vpn-stats-metrics-topic': VPN STATS metrics sent; 'vpn-stats-metrics-topic-dequeue-err': VPN STATS metrics dropped,enq error analytics qs; 'cgn-port-usage-hstgrm-acos-harmony-topic': CGN Port Usage Histogram HC Export; 'cgn-port-usage-hstgrm-acos-harmony-topic-dequeue-err': CGN Port Usage Histogram HC Export Failed; 'avro-system-env-topic': System environment sent; 'avro-system-env-dequeue-err': System Environmet dropped,enq error analytics queues; 'cert-pinning-list-topic': Cert-pinning candidate list sent; 'cert-pinning-list-topic-dequeue-err': Cert-pinning candidate list dropped,enq error analytics queues; 'ngwaf-hc-ep-topic': NGWAF HC PE export; 'ngwaf-hc-ep-topic-dequeue-err': NGWAF HC PE export failed; 'ngwaf-hc-metrics-topic': NGWAF HC metrics export; 'ngwaf-hc-metrics-topic-dequeue-err': NGWAF HC metrics export failed;

Type: string

Supported Values: all, pr-acos-harmony-topic, avro-device-status-topic, avro-partition-metrics-topic, avro-generic-sent, pr-acos-harmony-topic-enqueue-err, pr-acos-harmony-topic-dequeue-err, avro-generic-failed-encoding, avro-generic-failed-sending, avro-device-status-topic-enqueue-err, avro-device-status-topic-dequeue-err, avro-partition-metrics-topic-enqueue-err, avro-partition-metrics-topic-dequeue-err, kafka-unknown-topic-dequeue-err, kafka-broker-down, kafka-queue-full-err, pr-throttle-drop, pr-not-allowed-drop, pr-be-ttfb-anomaly, pr-be-ttlb-anomaly, pr-in-latency-threshold-exceed, pr-out-latency-threshold-exceed, pr-out-latency-anomaly, pr-in-latency-anomaly, kafka-topic-error, pc-encoding-failed, pc-acos-harmony-topic, pc-acos-harmony-topic-dequeue-err, cgn-pc-acos-harmony-topic, cgn-pc-acos-harmony-topic-dequeue-err, cgn-pe-acos-harmony-topic, cgn-pe-acos-harmony-topic-dequeue-err, fw-pc-acos-harmony-topic, fw-pc-acos-harmony-topic-dequeue-err, fw-deny-pc-acos-harmony-topic, fw-deny-pc-acos-harmony-topic-dequeue-err, fw-rst-pc-acos-harmony-topic, fw-rst-pc-acos-harmony-topic-dequeue-err, cgn-summary-error-acos-harmony-topic, cgn-summary-error-acos-harmony-topic-dequeue-err, rule-set-application-metrics-topic, rule-set-application-metrics-topic-dequeue-err, slb-ssl-stats-metrics-topic, slb-ssl-stats-metrics-topic-dequeue-err, slb-client-ssl-counters-metrics-topic, slb-client-ssl-counters-metrics-topic-dequeue-err, slb-server-ssl-counters-metrics-topic, slb-server-ssl-counters-metrics-topic-dequeue-err, pc-throttle-drop, metrics-dropped-pt-missing, ssli-pc-acos-harmony-topic, ssli-pc-acos-harmony-topic-dequeue-err, ssli-pe-acos-harmony-topic, ssli-pe-acos-harmony-topic-dequeue-err, analytics-bus-restart, waf-learn-pr-topic, waf-learn-pr-topic-dequeue-err, waf-events-topic, waf-events-topic-dequeue-err, visibility-topn-harmony-topic, visibility-topn-harmony-topic-dequeue-err, hc-logs-sent-to-master, hc-logs-received-from-blade, hc-oper-sent-to-master, hc-oper-received-from-blade, hc-counters-sent-to-master, hc-counters-received-from-blade, hc-counters-dropped-from-blade, pe-acos-harmony-topic, pe-acos-harmony-topic-enqueue-err, pe-acos-harmony-topic-dequeue-err, vpn-ipsec-sa-metrics-topic, vpn-ipsec-sa-metrics-topic-dequeue-err, vpn-ike-gateway-metrics-topic, vpn-ike-gateway-metrics-topic-dequeue-err, vpn-stats-metrics-topic, vpn-stats-metrics-topic-dequeue-err, cgn-port-usage-hstgrm-acos-harmony-topic, cgn-port-usage-hstgrm-acos-harmony-topic-dequeue-err, avro-system-env-topic, avro-system-env-dequeue-err, cert-pinning-list-topic, cert-pinning-list-topic-dequeue-err, ngwaf-hc-ep-topic, ngwaf-hc-ep-topic-dequeue-err, ngwaf-hc-metrics-topic, ngwaf-hc-metrics-topic-dequeue-err

2.47.3 event-notification kafka server

Set remote kafka server ip address

server Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	server
Element URI	/axapi/v3/event-notification/kafka/server
Element Attributes	server_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/event-notification/kafka/server/stats
Operational Data URI	/axapi/v3/event-notification/kafka/server/oper
Schema	`server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/event-notification/kafka/server

server attributes

```
POST /axapi/v3/event-notification/kafka/server
Payload:
{
    "server": {
        "host-ipv4": "a"
    }
}
```

Get Object

GET

/axapi/v3/event-notification/kafka/server

server attributes

```
GET /axapi/v3/event-notification/kafka/server
Reponse:
{
    "server": {
        "host-ipv4": "a",
        "use-mgmt-port": 0,
        "port": 9092,
        "uuid": "898f2ec4-b6a6-11ef-b71b-ae71681635d0",
        "a10-url": "/axapi/v3/event-notification/kafka/server"
    }
}
```

Modify Object

POST

/axapi/v3/event-notification/kafka/server

server attributes

Replace Object

PUT

/axapi/v3/event-notification/kafka/server

server attributes

```
PUT /axapi/v3/event-notification/kafka/server
Payload:
{
    "server": {
        "host-ipv4": "ab"
    }
}
```

Delete Object

DELETE

/axapi/v3/event-notification/kafka/server

server attributes

```
DELETE /axapi/v3/event-notification/kafka/server
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

server attributes

host-ipv4

Description Set kafka Broker ip address or hostname

Type: string

Format: host

port

Description Set remote kafka port number (Remote kafka port number 1-32767, default is 9092)

Type: number

Range: 1-32767

Default: 9092

sampling-enable

Type: List

use-mgmt-port

Description Use management port for connections

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'pr-acos-harmony-topic': L7 PR logs sent; 'avro-device-status-topic': Device Status Metrics sent; 'avro-partition-metrics-topic': Partition Metrics sent; 'avro-generic-sent': Generic Metrics sent; 'pr-acos-harmony-topic-enqueue-err': L7 PR dropped,enq error on acos queues; 'pr-acos-harmony-topic-dequeue-err': L7 PR dropped,enq error analytics queues; 'avro-generic-failed-encoding': Generic Metrics dropped,encoding error; 'avro-generic-failed-sending': Generic Metrics dropped,sending failure; 'avro-device-status-topic-enqueue-err': Device Status dropped,enq error on acos queues; 'avro-device-status-topic-dequeue-err': Device Status dropped,enq error analytics queues; 'avro-partition-metrics-topic-enqueue-err': Part metrics dropped,enq error on acos queues; 'avro-partition-metrics-topic-dequeue-err': Part metrics dropped,enq error analytics queues; 'kafka-unknown-topic-dequeue-err': Unknown type dropped,enq error analytics queues; 'kafka-broker-down': Messages dropped,analytics down; 'kafka-queue-full-err': Messages dropped,acos analytics queue full; 'pr-throttle-drop': L7 PR dropped,log throttling; 'pr-not-allowed-drop': L7 PR dropped, not allowed to be sent; 'pr-be-ttfb-anomaly': L7 PR back-end ttfb is negative; 'pr-be-ttlb-anomaly': L7 PR back-end ttlb is negative; 'pr-in-latency-threshold-exceed': L7 PR on latency threshold exceeded; 'pr-out-latency-threshold-exceed': L7 PR out latency threshold exceeded; 'pr-out-latency-anomaly': L7 PR out latency negative; 'pr-in-latency-anomaly': L7 PR on latency negative; 'kafka-topic-error': Module not supported by analytics; 'pc-encoding-failed': L4 PC logs dropped,encoding error; 'pc-acos-harmony-topic': L4 PC logs sent; 'pc-acos-harmony-topic-dequeue-err': L4 PC logs dropped,enq error analytics queues; 'cgn-pc-acos-harmony-topic': CGN PC logs sent; 'cgn-pc-acos-harmony-topic-dequeue-err': CGN PC logs dropped,enq error analytics queues; 'cgn-pe-acos-harmony-topic': CGN PE logs sent; 'cgn-pe-acos-harmony-topic-dequeue-err': CGN PE logs dropped,enq error analytics

queues; 'fw-pc-acos-harmony-topic': FW PC logs sent; 'fw-pc-acos-harmony-topic-dequeue-err': FW PC logs dropped,enq error analytics queues; 'fw-deny-pc-acos-harmony-topic': FW DENY PC logs sent; 'fw-deny-pc-acos-harmony-topic-dequeue-err': FW DENY PC logs dropped,enq error analytics queues; 'fw-rst-pc-acos-harmony-topic': FW RST PC logs sent; 'fw-rst-pc-acos-harmony-topic-dequeue-err': FW RST PC logs dropped,enq error analytics queues; 'cgn-summary-error-acos-harmony-topic': CGN PE logs sent; 'cgn-summary-error-acos-harmony-topic-dequeue-err': CGN PE logs dropped,enq error analytics queues; 'rule-set-application-metrics-topic': AppFW metrics sent; 'rule-set-application-metrics-topic-dequeue-err': AppFW metrics dropped,enq error analytics queues; 'slb-ssl-stats-metrics-topic': SSL metrics sent; 'slb-ssl-stats-metrics-topic-dequeue-err': SSL metrics dropped,enq error analytics queues; 'slb-client-ssl-counters-metrics-topic': Client SSL metrics sent; 'slb-client-ssl-counters-metrics-topic-dequeue-err': Cilent SSL metrics dropped,enq error analytics qs; 'slb-server-ssl-counters-metrics-topic': Server SSL metrics sent; 'slb-server-ssl-counters-metrics-topic-dequeue-err': Server SSL metrics dropped,enq error analytics qs; 'pc-throttle-drop': L4 PC logs dropped,throttling; 'metrics-dropped-pt-missing': Metrics dropped,missing partition tenant mapping; 'ssli-pc-acos-harmony-topic': SSLi PC topic counter from acos to harmony; 'ssli-pc-acos-harmony-topic-dequeue-err': SSLi PC topic to harmony dequeue error; 'ssli-pe-acos-harmony-topic': SSLi PE topic counter from acos to harmony; 'ssli-pe-acos-harmony-topic-dequeue-err': SSLi PE topic to harmony dequeue error; 'analytics-bus-restart': Analytics bus restart count; 'waf-learn-pr-topic': WAF learn topic counter; 'waf-learn-pr-topic-dequeue-err': WAF learn metrics dropped,enq error analytics qs; 'waf-events-topic': WAF events topic counter; 'waf-events-topic-dequeue-err': WAF events metrics dropped,enq error analytics qs; 'visibility-topn-harmony-topic': Visibility TopN sent; 'visibility-topn-harmony-topic-dequeue-err': Visibility TopN metrics dropped,enq error analytics qs; 'hc-logs-sent-to-master': HC logs sent to master; 'hc-logs-received-from-blade': HC logs received from blade; 'hc-oper-sent-to-master': HC oper to master; 'hc-oper-received-from-blade': HC oper received from blade; 'hc-counters-sent-to-master': HC counters sent to master; 'hc-counters-received-from-blade': HC counters received from blade; 'hc-counters-dropped-from-blade': HC counters dropped from blade (uuid or size mismatch); 'pe-acos-harmony-topic': L7 PE logs sent; 'pe-acos-harmony-topic-enqueue-err': L7 PE dropped,enq error on acos queues; 'pe-acos-harmony-topic-dequeue-err': L7 PE dropped,enq error analytics queues; 'vpn-ipsec-sa-metrics-topic': IPSec SA metrics sent; 'vpn-ipsec-sa-metrics-topic-dequeue-err': IPSec SA metrics dropped,enq error analytics qs; 'vpn-ike-gateway-metrics-topic': IKE gateway metrics sent; 'vpn-ike-gateway-metrics-topic-dequeue-err': IKE gateway metrics dropped,enq error analytics qs; 'vpn-stats-metrics-topic': VPN STATS metrics sent; 'vpn-stats-metrics-topic-dequeue-err': VPN STATS metrics dropped,enq error analytics qs; 'cgn-port-usage-hstgrm-acos-harmony-topic': CGN Port Usage Histogram HC Export; 'cgn-port-usage-hstgrm-acos-harmony-topic-dequeue-err': CGN Port Usage Histogram HC Export Failed; 'avro-system-env-topic': System environment sent; 'avro-system-env-dequeue-err': System Environmet dropped,enq error analytics queues; 'cert-pinning-list-topic': Cert-pinning candidate list sent; 'cert-pinning-list-topic-dequeue-err': Cert-pinning candidate list dropped,enq error analytics queues; 'ngwaf-hc-ep-topic': NGWAF HC PE export; 'ngwaf-hc-ep-topic-dequeue-err': NGWAF HC PE export failed; 'ngwaf-hc-metrics-topic': NGWAF HC metrics export; 'ngwaf-hc-metrics-topic-dequeue-err': NGWAF HC metrics export failed;

Type: string

Supported Values: all, pr-acos-harmony-topic, avro-device-status-topic, avro-partition-metrics-topic, avro-generic-sent, pr-acos-harmony-topic-enqueue-err, pr-acos-harmony-topic-dequeue-err, avro-generic-failed-encoding, avro-generic-failed-sending, avro-device-status-topic-enqueue-err, avro-device-status-topic-dequeue-err, avro-partition-metrics-topic-enqueue-err, avro-partition-metrics-topic-dequeue-err, kafka-unknown-topic-dequeue-err, kafka-broker-down, kafka-queue-full-err, pr-throttle-drop, pr-not-allowed-drop, pr-be-ttfb-anomaly, pr-be-ttlb-anomaly, pr-in-latency-threshold-exceed, pr-out-latency-threshold-exceed, pr-out-latency-anomaly, pr-in-latency-anomaly, kafka-topic-error, pc-encoding-failed, pc-

acos-harmony-topic, pc-acos-harmony-topic-dequeue-err, cgn-pc-acos-harmony-topic, cgn-pc-acos-harmony-topic-dequeue-err, cgn-pe-acos-harmony-topic, cgn-pe-acos-harmony-topic-dequeue-err, fw-pc-acos-harmony-topic, fw-pc-acos-harmony-topic-dequeue-err, fw-deny-pc-acos-harmony-topic, fw-deny-pc-acos-harmony-topic-dequeue-err, fw-rst-pc-acos-harmony-topic, fw-rst-pc-acos-harmony-topic-dequeue-err, cgn-summary-error-acos-harmony-topic, cgn-summary-error-acos-harmony-topic-dequeue-err, rule-set-application-metrics-topic, rule-set-application-metrics-topic-dequeue-err, slb-ssl-stats-metrics-topic, slb-ssl-stats-metrics-topic-dequeue-err, slb-client-ssl-counters-metrics-topic, slb-client-ssl-counters-metrics-topic-dequeue-err, slb-server-ssl-counters-metrics-topic, slb-server-ssl-counters-metrics-topic-dequeue-err, pc-throttle-drop, metrics-dropped-pt-missing, ssli-pc-acos-harmony-topic, ssli-pc-acos-harmony-topic-dequeue-err, ssli-pe-acos-harmony-topic, ssli-pe-acos-harmony-topic-dequeue-err, analytics-bus-restart, waf-learn-pr-topic, waf-learn-pr-topic-dequeue-err, waf-events-topic, waf-events-topic-dequeue-err, visibility-topn-harmony-topic, visibility-topn-harmony-topic-dequeue-err, hc-logs-sent-to-master, hc-logs-received-from-blade, hc-oper-sent-to-master, hc-oper-received-from-blade, hc-counters-sent-to-master, hc-counters-received-from-blade, hc-counters-dropped-from-blade, pe-acos-harmony-topic, pe-acos-harmony-topic-enqueue-err, pe-acos-harmony-topic-dequeue-err, vpn-ipsec-sa-metrics-topic, vpn-ipsec-sa-metrics-topic-dequeue-err, vpn-ike-gateway-metrics-topic, vpn-ike-gateway-metrics-topic-dequeue-err, vpn-stats-metrics-topic, vpn-stats-metrics-topic-dequeue-err, cgn-port-usage-hstgrm-acos-harmony-topic, cgn-port-usage-hstgrm-acos-harmony-topic-dequeue-err, avro-system-env-topic, avro-system-env-dequeue-err, cert-pinning-list-topic, cert-pinning-list-topic-dequeue-err, ngwaf-hc-ep-topic, ngwaf-hc-ep-topic-dequeue-err, ngwaf-hc-metrics-topic, ngwaf-hc-metrics-topic-dequeue-err

2.47.4 event-notification kafka server oper

Operational Status for the object server

server Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	server
Element URI	/axapi/v3/event-notification/kafka/server/oper
Element Attributes	server_attributes
Partition Visibility	None
Schema	`server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/event-notification/kafka/server/oper

server attributes

Get Object

GET

/axapi/v3/event-notification/kafka/server/oper

server attributes

Modify Object

POST

/axapi/v3/event-notification/kafka/server/oper

server attributes

Replace Object

PUT

/axapi/v3/event-notification/kafka/server/oper

server attributes

Delete Object

DELETE

/axapi/v3/event-notification/kafka/server/oper

server attributes

server attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

kafka-broker-state

Description

Type: string

Supported Values: Up, Down

2.47.5 event-notification kafka server stats

Statistics for the object server

server Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	server
Element URI	/axapi/v3/event-notification/kafka/server/stats
Element Attributes	server_attributes
Partition Visibility	None
Schema	`server schema`

Operations Allowed:

Create Object

POST

/axapi/v3/event-notification/kafka/server/stats

server attributes

Get Object

GET

/axapi/v3/event-notification/kafka/server/stats

server attributes

Modify Object

POST

/axapi/v3/event-notification/kafka/server/stats

server attributes

Replace Object

PUT

/axapi/v3/event-notification/kafka/server/stats

server attributes

Delete Object

DELETE

/axapi/v3/event-notification/kafka/server/stats

server attributes

server attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

analytics-bus-restart

Description Analytics bus restart count

Type: number

Format: counter

avro-device-status-topic

Description Device Status Metrics sent

Type: number

Format: counter

avro-device-status-topic-dequeue-err

Description Device Status dropped,enq error analytics queues

Type: number

Format: counter

avro-device-status-topic-enqueue-err

Description Device Status dropped,enq error on acos queues

Type: number

Format: counter

avro-generic-failed-encoding

Description Generic Metrics dropped,encoding error

Type: number

Format: counter

avro-generic-failed-sending

Description Generic Metrics dropped,sending failure

Type: number

Format: counter

avro-generic-sent

Description Generic Metrics sent

Type: number

Format: counter

avro-partition-metrics-topic

Description Partition Metrics sent

Type: number

Format: counter

avro-partition-metrics-topic-dequeue-err

Description Part metrics dropped,enq error analytics queues

Type: number

Format: counter

avro-partition-metrics-topic-enqueue-err

Description Part metrics dropped,enq error on acos queues

Type: number

Format: counter

avro-system-env-dequeue-err

Description System Environmet dropped,enq error analytics queues

Type: number

Format: counter

avro-system-env-topic

Description System environment sent

Type: number

Format: counter

cert-pinning-list-topic

Description Cert-pinning candidate list sent

Type: number

Format: counter

cert-pinning-list-topic-dequeue-err

Description Cert-pinning candidate list dropped,enq error analytics queues

Type: number

Format: counter

cgn-pc-acos-harmony-topic

Description CGN PC logs sent

Type: number

Format: counter

cgn-pc-acos-harmony-topic-dequeue-err

Description CGN PC logs dropped,enq error analytics queues

Type: number

Format: counter

cgn-pe-acos-harmony-topic

Description CGN PE logs sent

Type: number

Format: counter

cgn-pe-acos-harmony-topic-dequeue-err

Description CGN PE logs dropped,enq error analytics queues

Type: number

Format: counter

cgn-port-usage-hstgrm-acos-harmony-topic

Description CGN Port Usage Histogram HC Export

Type: number

Format: counter

cgn-port-usage-hstgrm-acos-harmony-topic-dequeue-err

Description CGN Port Usage Histogram HC Export Failed

Type: number

Format: counter

cgn-summary-error-acos-harmony-topic

Description CGN PE logs sent

Type: number

Format: counter

cgn-summary-error-acos-harmony-topic-dequeue-err

Description CGN PE logs dropped,enq error analytics queues

Type: number

Format: counter

fw-deny-pc-acos-harmony-topic

Description FW DENY PC logs sent

Type: number

Format: counter

fw-deny-pc-acos-harmony-topic-dequeue-err

Description FW DENY PC logs dropped,enq error analytics queues

Type: number

Format: counter

fw-pc-acos-harmony-topic

Description FW PC logs sent

Type: number

Format: counter

fw-pc-acos-harmony-topic-dequeue-err

Description FW PC logs dropped,enq error analytics queues

Type: number

Format: counter

fw-rst-pc-acos-harmony-topic

Description FW RST PC logs sent

Type: number

Format: counter

fw-rst-pc-acos-harmony-topic-dequeue-err

Description FW RST PC logs dropped,enq error analytics queues

Type: number

Format: counter

hc-counters-dropped-from-blade

Description HC counters dropped from blade (uuid or size mismatch)

Type: number

Format: counter

hc-counters-received-from-blade

Description HC counters received from blade

Type: number

Format: counter

hc-counters-sent-to-master

Description HC counters sent to master

Type: number

Format: counter

hc-logs-received-from-blade

Description HC logs received from blade

Type: number

Format: counter

hc-logs-sent-to-master

Description HC logs sent to master

Type: number

Format: counter

hc-oper-received-from-blade

Description HC oper received from blade

Type: number

Format: counter

hc-oper-sent-to-master

Description HC oper to master

Type: number

Format: counter

kafka-broker-down

Description Messages dropped,analytics down

Type: number

Format: counter

kafka-queue-full-err

Description Messages dropped,acos analytics queue full

Type: number

Format: counter

kafka-topic-error

Description Module not supported by analytics

Type: number

Format: counter

kafka-unknown-topic-dequeue-err

Description Unknown type dropped,enq error analytics queues

Type: number

Format: counter

metrics-dropped-pt-missing

Description Metrics dropped,missing partition tenant mapping

Type: number

Format: counter

ngwaf-hc-ep-topic

Description NGWAF HC PE export

Type: number

Format: counter

ngwaf-hc-ep-topic-dequeue-err

Description NGWAF HC PE export failed

Type: number

Format: counter

ngwaf-hc-metrics-topic

Description NGWAF HC metrics export

Type: number

Format: counter

ngwaf-hc-metrics-topic-dequeue-err

Description NGWAF HC metrics export failed

Type: number

Format: counter

pc-acos-harmony-topic

Description L4 PC logs sent

Type: number

Format: counter

pc-acos-harmony-topic-dequeue-err

Description L4 PC logs dropped,enq error analytics queues

Type: number

Format: counter

pc-encoding-failed

Description L4 PC logs dropped,encoding error

Type: number

Format: counter

pc-throttle-drop

Description L4 PC logs dropped,throttling

Type: number

Format: counter

pe-acos-harmony-topic

Description L7 PE logs sent

Type: number

Format: counter

pe-acos-harmony-topic-dequeue-err

Description L7 PE dropped,enq error analytics queues

Type: number

Format: counter

pe-acos-harmony-topic-enqueue-err

Description L7 PE dropped,enq error on acos queues

Type: number

Format: counter

pr-acos-harmony-topic

Description L7 PR logs sent

Type: number

Format: counter

pr-acos-harmony-topic-dequeue-err

Description L7 PR dropped,enq error analytics queues

Type: number

Format: counter

pr-acos-harmony-topic-enqueue-err

Description L7 PR dropped,enq error on acos queues

Type: number

Format: counter

pr-be-ttfb-anomaly

Description L7 PR back-end ttfb is negative

Type: number

Format: counter

pr-be-ttlb-anomaly

Description L7 PR back-end ttlb is negative

Type: number

Format: counter

pr-in-latency-anomaly

Description L7 PR on latency negative

Type: number

Format: counter

pr-in-latency-threshold-exceed

Description L7 PR on latency threshold exceeded

Type: number

Format: counter

pr-not-allowed-drop

Description L7 PR dropped, not allowed to be sent

Type: number

Format: counter

pr-out-latency-anomaly

Description L7 PR out latency negative

Type: number

Format: counter

pr-out-latency-threshold-exceed

Description L7 PR out latency threshold exceeded

Type: number

Format: counter

pr-throttle-drop

Description L7 PR dropped,log throttling

Type: number

Format: counter

rule-set-application-metrics-topic

Description AppFW metrics sent

Type: number

Format: counter

rule-set-application-metrics-topic-dequeue-err

Description AppFW metrics dropped,enq error analytics queues

Type: number

Format: counter

slb-client-ssl-counters-metrics-topic

Description Client SSL metrics sent

Type: number

Format: counter

slb-client-ssl-counters-metrics-topic-dequeue-err

Description Cilent SSL metrics dropped,enq error analytics qs

Type: number

Format: counter

slb-server-ssl-counters-metrics-topic

Description Server SSL metrics sent

Type: number

Format: counter

slb-server-ssl-counters-metrics-topic-dequeue-err

Description Server SSL metrics dropped,enq error analytics qs

Type: number

Format: counter

slb-ssl-stats-metrics-topic

Description SSL metrics sent

Type: number

Format: counter

slb-ssl-stats-metrics-topic-dequeue-err

Description SSL metrics dropped,enq error analytics queues

Type: number

Format: counter

ssli-pc-acos-harmony-topic

Description SSLi PC topic counter from acos to harmony

Type: number

Format: counter

ssli-pc-acos-harmony-topic-dequeue-err

Description SSLi PC topic to harmony dequeue error

Type: number

Format: counter

ssli-pe-acos-harmony-topic

Description SSLi PE topic counter from acos to harmony

Type: number

Format: counter

ssli-pe-acos-harmony-topic-dequeue-err

Description SSLi PE topic to harmony dequeue error

Type: number

Format: counter

visibility-topn-harmony-topic

Description Visibility TopN sent

Type: number

Format: counter

visibility-topn-harmony-topic-dequeue-err

Description Visibility TopN metrics dropped,enq error analytics qs

Type: number

Format: counter

vpn-ike-gateway-metrics-topic

Description IKE gateway metrics sent

Type: number

Format: counter

vpn-ike-gateway-metrics-topic-dequeue-err

Description IKE gateway metrics dropped,enq error analytics qs

Type: number

Format: counter

vpn-ipsec-sa-metrics-topic

Description IPSec SA metrics sent

Type: number

Format: counter

vpn-ipsec-sa-metrics-topic-dequeue-err

Description IPSec SA metrics dropped,enq error analytics qs

Type: number

Format: counter

vpn-stats-metrics-topic

Description VPN STATS metrics sent

Type: number

Format: counter

vpn-stats-metrics-topic-dequeue-err

Description VPN STATS metrics dropped,enq error analytics qs

Type: number

Format: counter

waf-events-topic

Description WAF events topic counter

Type: number

Format: counter

waf-events-topic-dequeue-err

Description WAF events metrics dropped,enq error analytics qs

Type: number

Format: counter

waf-learn-pr-topic

Description WAF learn topic counter

Type: number

Format: counter

waf-learn-pr-topic-dequeue-err

Description WAF learn metrics dropped,enq error analytics qs

Type: number

Format: counter

2.48 fail-safe

Objects:

2.48.1 fail-safe

Fail Safe Global Commands

fail-safe Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	fail-safe
Element URI	/axapi/v3/fail-safe
Element Attributes	fail-safe_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/fail-safe/oper
Schema	`fail-safe schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fail-safe

fail-safe attributes

```
POST /axapi/v3/fail-safe
Payload:
{
    "fail-safe": {
        "fpga-buff-recovery-threshold": 1
    }
}
```

Get Object

GET

/axapi/v3/fail-safe

fail-safe attributes

```
GET /axapi/v3/fail-safe
Reponse:
{
    "fail-safe": {
        "fpga-buff-recovery-threshold": 1,
        "hw-error-monitor": "hw-error-monitor-enable",
        "hw-ssl-timeout-monitor": "hw-ssl-timeout-monitor-enable",
        "session-mem-recovery-threshold": 30,
        "sw-error-monitor-enable": 0,
        "sw-error-recovery-timeout": 3,
        "dataplane-recovery-timeout": 5,
        "uuid": "898ad6e4-b6a6-11ef-b71b-ae71681635d0",
        "config": {
            "uuid": "898ada72-b6a6-11ef-b71b-ae71681635d0",
            "a10-url": "/axapi/v3/fail-safe/config"
        },
        "a10-url": "/axapi/v3/fail-safe"
```

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```
    }
}
```

Modify Object

POST

/axapi/v3/fail-safe

fail-safe attributes

Replace Object

PUT

/axapi/v3/fail-safe

fail-safe attributes

```
PUT /axapi/v3/fail-safe
Payload:
{
    "fail-safe": {
        "fpga-buff-recovery-threshold": 2
    }
}
```

Delete Object

DELETE

/axapi/v3/fail-safe

fail-safe attributes

```
DELETE /axapi/v3/fail-safe
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

fail-safe attributes

config

Description: config is a **JSON Block**. Please see below for *config*

Type: Object

Reference Object: */axapi/v3/fail-safe/config*

dataplane-recovery-timeout

Description dataplane hung detection timeout before ACOS is restarted (in seconds)

Type: number

Range: 1-30

Default: 5

disable-failsafe

Description: disable-failsafe is a **JSON Block**. Please see below for *disable-failsafe*

Type: Object

Reference Object: */axapi/v3/fail-safe/disable-failsafe*

fpga-buff-recovery-threshold

Description FPGA buffers recovery threshold (Units of 256 buffers (default 2))

Type: number

Range: 1-10

Default: 2

fpga-monitor-enable

Description FPGA monitor feature enable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fpga-monitor-forced-reboot

Description FPGA monitor forced reboot in error condition

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

fpga-monitor-interval

Description FPGA monitor packet interval (seconds) (Numbers of seconds between sending packets (default 1))

Type: number

Range: 1-60

Default: 1

fpga-monitor-threshold

Description FPGA monitor packet missed for error condition (Numbers of missed monitor packets before setting error condition (default 30))

Type: number

Range: 2-255

Default: 30

hw-error-monitor

Description 'hw-error-monitor-disable': Disable fail-safe hardware error monitor; 'hw-error-monitor-enable': Enable fail-safe hardware error monitor;

Type: string

Supported Values: hw-error-monitor-disable, hw-error-monitor-enable

Default: hw-error-monitor-enable

hw-error-recovery-timeout

Description Hardware error recovery timeout (minutes) (waiting time of recovery from hardware errors (default 0))

Type: number

Range: 1-1440

hw-ssl-timeout-monitor

Description 'hw-ssl-timeout-monitor-disable': Disable fail-safe hardware SSL timeout monitor; 'hw-ssl-timeout-monitor-enable': Enable fail-safe hardware SSL timeout monitor;

Type: string

Supported Values: hw-ssl-timeout-monitor-disable, hw-ssl-timeout-monitor-enable

Default: hw-ssl-timeout-monitor-enable

kill

Description Stop the traffic and log the event

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: kill and log are mutually exclusive

log

Description Log the event

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: log and kill are mutually exclusive

session-mem-recovery-threshold

Description Session memory recovery threshold (percentage) (Percentage of available session memory (default 30%))

Type: number

Range: 1-100

Default: 30

sw-error-monitor-enable

Description Enable fail-safe software error monitor

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sw-error-recovery-timeout

Description Software error recovery timeout (minutes) (waiting time of recovery from software errors (default 3))

Type: number

Range: 1-1440

Default: 3

total-memory-size-check

Description Check total memory size of current system (Size of memory (GB))

Type: number

Range: 1-256

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

disable-failsafe

Specification	Value
Type	*object*

action

Description 'all': Disable All; 'io-buffer': Disable I/O Buffer; 'session-memory': Disable Session Memory; 'system-memory': Disable System Memory;

Type: string

Supported Values: all, io-buffer, session-memory, system-memory

Default: all

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

config

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.48.2 fail-safe config

Fail Safe Global Commands

config Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	config
Element URI	/axapi/v3/fail-safe/config
Element Attributes	config_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/fail-safe/config/oper
Schema	`config schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fail-safe/config

config attributes

Get Object

GET

/axapi/v3/fail-safe/config

config attributes

Modify Object

POST

/axapi/v3/fail-safe/config

config attributes

Replace Object

PUT

/axapi/v3/fail-safe/config

config attributes

Delete Object

DELETE

/axapi/v3/fail-safe/config

config attributes

config attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.48.3 fail-safe config oper

Operational Status for the object config

config Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	config
Element URI	/axapi/v3/fail-safe/config/oper
Element Attributes	config_attributes
Partition Visibility	None
Schema	`config schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fail-safe/config/oper

config attributes

Get Object

GET

/axapi/v3/fail-safe/config/oper

config attributes

Modify Object

POST

/axapi/v3/fail-safe/config/oper

config attributes

Replace Object

PUT

/axapi/v3/fail-safe/config/oper

config attributes

Delete Object

DELETE

/axapi/v3/fail-safe/config/oper

config attributes

config attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

dataplane_recovery_timeout

Description

Type: string

fpga_mon_enable

Description

Type: string

fpga_mon_forced_reboot

Description

Type: string

fpga_mon_interval

Description

Type: string

fpga_mon_threshold

Description

Type: string

hw_error_mon

Description

Type: string

hw_recovery_timeout

Description

Type: string

mem_mon

Description

Type: string

sw_error_mon

Description

Type: string

sw_recovery_timeout

Description

Type: string

2.48.4 fail-safe disable-failsafe

Disable HA failover when resource depletion is detected

disable-failsafe Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	disable-failsafe
Element URI	/axapi/v3/fail-safe/disable-failsafe
Element Attributes	disable-failsafe_attributes
Partition Visibility	shared
Schema	`disable-failsafe schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fail-safe/disable-failsafe

disable-failsafe attributes

```
POST /axapi/v3/fail-safe/disable-failsafe
Payload:
{
    "disable-failsafe": {
        "action": "all"
    }
}
```

Get Object

GET

/axapi/v3/fail-safe/disable-failsafe

disable-failsafe attributes

```
GET /axapi/v3/fail-safe/disable-failsafe
Reponse:
{
    "disable-failsafe": {
        "action": "all",
        "uuid": "814f6400-b6c3-11ef-8f5a-ae71681635d0",
        "a10-url": "/axapi/v3/fail-safe/disable-failsafe"
    }
}
```

Modify Object

POST

/axapi/v3/fail-safe/disable-failsafe

disable-failsafe attributes

Replace Object

PUT

/axapi/v3/fail-safe/disable-failsafe

disable-failsafe attributes

```
PUT /axapi/v3/fail-safe/disable-failsafe
Payload:
{
    "disable-failsafe": {
        "action": "io-buffer"
    }
}
```

Delete Object

DELETE

/axapi/v3/fail-safe/disable-failsafe

disable-failsafe attributes

```
DELETE /axapi/v3/fail-safe/disable-failsafe
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
```

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```
    }
}
```

disable-failsafe attributes

action

Description 'all': Disable All; 'io-buffer': Disable I/O Buffer; 'session-memory': Disable Session Memory; 'system-memory': Disable System Memory;

Type: string

Supported Values: all, io-buffer, session-memory, system-memory

Default: all

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.48.5 fail-safe oper

Operational Status for the object fail-safe

fail-safe Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	fail-safe
Element URI	/axapi/v3/fail-safe/oper
Element Attributes	fail-safe_attributes
Partition Visibility	None
Schema	`fail-safe schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fail-safe/oper

fail-safe attributes

Get Object

GET

/axapi/v3/fail-safe/oper

fail-safe attributes

Modify Object

POST

/axapi/v3/fail-safe/oper

fail-safe attributes

Replace Object

PUT

/axapi/v3/fail-safe/oper

fail-safe attributes

Delete Object

DELETE

/axapi/v3/fail-safe/oper

fail-safe attributes

fail-safe attributes

config

Description: config is a **JSON Block**. Please see below for *config*

Type: Object

Reference Object: */axapi/v3/fail-safe/config*

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

avail_fpga_buff_domain1

Description

Type: number

avail_fpga_buff_domain2

Description

Type: number

fpga_buff_recovery_threshold

Description

Type: number

fpga_stats_iochan

Type: List

fpga_stats_num_cntrs

Description

Type: number

free_fpga_buffers

Description

Type: number

free_session_memory

Description

Type: number

sess_mem_recovery_threshold

Description

Type: number

total_fpga_buffers

Description

Type: number

total_free_fpga_buff

Description

Type: number

total_session_memory

Description

Type: number

total_system_memory

Description

Type: number

oper_fpga_stats_iochan

Specification	Value
Type	*list*
Block object keys	

fpga_stats_iochan_id

Description

Type: number

fpga_stats_iochan_rx

Description

Type: number

fpga_stats_iochan_tx

Description

Type: number

config

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *config_oper*

Type: Object

config_oper

Specification	Value
Type	*object*

dataplane_recovery_timeout

Description

Type: string

fpga_mon_enable

Description

Type: string

fpga_mon_forced_reboot

Description

Type: string

fpga_mon_interval

Description

Type: string

fpga_mon_threshold

Description

Type: string

hw_error_mon

Description

Type: string

hw_recovery_timeout

Description

Type: string

mem_mon

Description

Type: string

sw_error_mon

Description

Type: string

sw_recovery_timeout

Description

Type: string

2.49 fan-speed

Objects:

2.49.1 fan-speed

Control FAN Speed setting

fan-speed Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	fan-speed
Element URI	/axapi/v3/fan-speed
Element Attributes	fan-speed_attributes
Partition Visibility	shared
Schema	`fan-speed schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fan-speed

fan-speed attributes

```
POST /axapi/v3/fan-speed
Payload:
{
```

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```
    "fan-speed": {
        "action": "auto"
    }
}
```

Get Object

GET

/axapi/v3/fan-speed

fan-speed attributes

Modify Object

POST

/axapi/v3/fan-speed

fan-speed attributes

Replace Object

PUT

/axapi/v3/fan-speed

fan-speed attributes

fan-speed attributes

action

Description 'auto': Set FAN Speed to automatic based on system temperature; '50': Set FAN Speed to 50% of maximum speed (approx); '75': Set FAN Speed to 75% of maximum speed (approx); '100': Set FAN Speed to 100% full hardware speed;

Type: string

Supported Values: auto, 50, 75, 100

Default: auto

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.50 file

Objects:

2.50.1 file

Local file Mangement

file Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	file
Element URI	/axapi/v3/file
Element Attributes	file_attributes
Partition Visibility	shared
Schema	`file schema`

Operations Allowed:

Get Object

GET

/axapi/v3/file

file_attributes

file attributes

aflex

Description: aflex is a **JSON Block**. Please see below for *aflex*

Type: Object

Reference Object: */axapi/v3/file/aflex*

auth-jwks

Description: auth-jwks is a **JSON Block**. Please see below for *auth-jwks*

Type: Object

Reference Object: */axapi/v3/file/auth-jwks*

auth-portal

Description: auth-portal is a **JSON Block**. Please see below for *auth-portal*

Type: Object

Reference Object: */axapi/v3/file/auth-portal*

auth-portal-image

Description: auth-portal-image is a **JSON Block**. Please see below for *auth-portal-image*

Type: Object

Reference Object: */axapi/v3/file/auth-portal-image*

auth-saml-idp

Description: auth-saml-idp is a **JSON Block**. Please see below for *auth-saml-idp*

Type: Object

Reference Object: */axapi/v3/file/auth-saml-idp*

aws-accesskey

Description: aws-accesskey is a **JSON Block**. Please see below for *aws-accesskey*

Type: Object

Reference Object: */axapi/v3/file/aws-accesskey*

axdebug-capture

Description: axdebug-capture is a **JSON Block**. Please see below for *axdebug-capture*

Type: Object

Reference Object: */axapi/v3/file/axdebug-capture*

axdebug-config

Description: axdebug-config is a **JSON Block**. Please see below for *axdebug-config*

Type: Object

Reference Object: */axapi/v3/file/axdebug-config*

bw-list

Description: bw-list is a **JSON Block**. Please see below for *bw-list*

Type: Object

Reference Object: */axapi/v3/file/bw-list*

ca-cert

Description: ca-cert is a **JSON Block**. Please see below for *ca-cert*

Type: Object

Reference Object: */axapi/v3/file/ca-cert*

class-list

Description: class-list is a **JSON Block**. Please see below for *class-list*

Type: Object

Reference Object: */axapi/v3/file/class-list*

core

Description: core is a **JSON Block**. Please see below for *core*

Type: Object

Reference Object: */axapi/v3/file/core*

csr

Description: csr is a **JSON Block**. Please see below for *csr*

Type: Object

Reference Object: */axapi/v3/file/csr*

debug-monitor

Description: debug-monitor is a **JSON Block**. Please see below for *debug-monitor*

Type: Object

Reference Object: */axapi/v3/file/debug-monitor*

dnssec-dnskey

Description: dnssec-dnskey is a **JSON Block**. Please see below for *dnssec-dnskey*

Type: Object

Reference Object: */axapi/v3/file/dnssec-dnskey*

dnssec-ds

Description: dnssec-ds is a **JSON Block**. Please see below for *dnssec-ds*

Type: Object

Reference Object: */axapi/v3/file/dnssec-ds*

domain-list

Description: domain-list is a **JSON Block**. Please see below for *domain-list*

Type: Object

Reference Object: */axapi/v3/file/domain-list*

geo-location

Description: geo-location is a **JSON Block**. Please see below for *geo-location*

Type: Object

Reference Object: */axapi/v3/file/geo-location*

glm-cert

Description: glm-cert is a **JSON Block**. Please see below for *glm-cert*

Type: Object

Reference Object: */axapi/v3/file/glm-cert*

glm-license

Description: glm-license is a **JSON Block**. Please see below for *glm-license*

Type: Object

Reference Object: */axapi/v3/file/glm-license*

health-external

Description: health-external is a **JSON Block**. Please see below for *health-external*

Type: Object

Reference Object: */axapi/v3/file/health-external*

health-postfile

Description: health-postfile is a **JSON Block**. Please see below for *health-postfile*

Type: Object

Reference Object: */axapi/v3/file/health-postfile*

license

Description: license is a **JSON Block**. Please see below for *license*

Type: Object

Reference Object: */axapi/v3/file/license*

local-uri-file

Description: local-uri-file is a **JSON Block**. Please see below for *local-uri-file*

Type: Object

Reference Object: */axapi/v3/file/local-uri-file*

log-backup

Description: log-backup is a **JSON Block**. Please see below for *log-backup*

Type: Object

Reference Object: */axapi/v3/file/log-backup*

ng-waf-module

Description: ng-waf-module is a **JSON Block**. Please see below for *ng-waf-module*

Type: Object

Reference Object: */axapi/v3/file/ng-waf-module*

rpz

Description: rpz is a **JSON Block**. Please see below for *rpz*

Type: Object

Reference Object: */axapi/v3/file/rpz*

ssh-pubkey

Description: ssh-pubkey is a **JSON Block**. Please see below for *ssh-pubkey*

Type: Object

Reference Object: */axapi/v3/file/ssh-pubkey*

ssl-cert

Description: ssl-cert is a **JSON Block**. Please see below for *ssl-cert*

Type: Object

Reference Object: */axapi/v3/file/ssl-cert*

ssl-cert-key

Description: ssl-cert-key is a **JSON Block**. Please see below for *ssl-cert-key*

Type: Object

Reference Object: */axapi/v3/file/ssl-cert-key*

ssl-cert-poc

Description: ssl-cert-poc is a **JSON Block**. Please see below for *ssl-cert-poc*

Type: Object

Reference Object: */axapi/v3/file/ssl-cert-poc*

ssl-crl

Description: ssl-crl is a **JSON Block**. Please see below for *ssl-crl*

Type: Object

Reference Object: */axapi/v3/file/ssl-crl*

ssl-key

Description: ssl-key is a **JSON Block**. Please see below for *ssl-key*

Type: Object

Reference Object: */axapi/v3/file/ssl-key*

startup-config

Description: startup-config is a **JSON Block**. Please see below for *startup-config*

Type: Object

Reference Object: */axapi/v3/file/startup-config*

syslog

Description: syslog is a **JSON Block**. Please see below for *syslog*

Type: Object

Reference Object: */axapi/v3/file/syslog*

system-backup

Description: system-backup is a **JSON Block**. Please see below for *system-backup*

Type: Object

Reference Object: */axapi/v3/file/system-backup*

techsupport

Description: techsupport is a **JSON Block**. Please see below for *techsupport*

Type: Object

Reference Object: */axapi/v3/file/techsupport*

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

Reference Object: */axapi/v3/file/template*

tsig

Description: tsig is a **JSON Block**. Please see below for *tsig*

Type: Object

Reference Object: */axapi/v3/file/tsig*

waf

Description: waf is a **JSON Block**. Please see below for *waf*

Type: Object

Reference Object: */axapi/v3/file/waf*

web-category-license

Description: web-category-license is a **JSON Block**. Please see below for *web-category-license*

Type: Object

Reference Object: */axapi/v3/file/web-category-license*

web-service-cert-key

Description: web-service-cert-key is a **JSON Block**. Please see below for *web-service-cert-key*

Type: Object

Reference Object: */axapi/v3/file/web-service-cert-key*

xml-schema

Description: xml-schema is a **JSON Block**. Please see below for *xml-schema*

Type: Object

Reference Object: */axapi/v3/file/xml-schema*

geo-location

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace, delete

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file

Description geo-location database local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

domain-list

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 32 characters

Maximum Length: 1 characters

file

Description domain list local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssl-cert-key

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'replace': replace;

Type: string

Supported Values: create, import, export, replace

file

Description ssl certificate local file name

Type: string

Format: string-rlx

Maximum Length: 245 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 300 characters

Maximum Length: 1 characters

secured

Description Mark keys as non-exportable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

bw-list

Specification	Value
Type	*object*

action

Description 'check': check; 'create': create; 'delete': delete; 'export': export; 'import': import; 'replace': replace;

Type: string

Supported Values: check, create, delete, export, import, replace

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file

Description bw-list file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rpz

Specification	Value
Type	*object*

action

Description 'import': import; 'export': export; 'check': check; 'delete': delete; 'replace': replace;

Type: string

Supported Values: import, export, check, delete, replace

device

Description Device (Device ID)

Type: number

file

Description RPZ file name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

aws-accesskey

Specification	Value
Type	*object*

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

user

Description user name of the pub key

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tsig

Specification	Value
Type	*object*

action

Description 'import': import; 'export': export; 'check': check; 'delete': delete; 'replace': replace;

Type: string

Supported Values: import, export, check, delete, replace

device

Description Device (Device ID)

Type: number

file

Description TSIG file name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

syslog

Specification	Value
Type	*object*

action

Description 'export': export;

Type: string

Supported Values: export

file

Description syslog local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

axdebug-config

Specification	Value
Type	*object*

action

Description 'export': export; 'delete': delete;

Type: string

Supported Values: export, delete

file

Description axdebug local config file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

auth-portal

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace, delete

dst-file

Description Destination file name for copy and rename action

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file

Description Authentication portal local file name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description Full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

auth-jwks

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, copy, rename, check, replace, delete

dst-file

Description Destination file name for copy and rename action

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file

Description JWK local file name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description Full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

aflex

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace, delete

dst-file

Description destination file name for copy and rename action

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file

Description aflex local file name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

skip-backup

Description Skip backup logic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

health-postfile

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace, delete

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 32 characters

Maximum Length: 1 characters

file

Description Specify the File Name

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssh-pubkey

Specification	Value
Type	*object*

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

user

Description user name of the pub key

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

web-category-license

Specification	Value
Type	*object*

action

Description 'import': import;

Type: string

Supported Values: import

device

Description Device (Device ID)

Type: number

file

Description Web-Category license local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description Full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

use-mgmt-port

Description Enable management port for backend

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-backup

Specification	Value
Type	*object*

all

Description all log

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

date

Description specify number of days

Type: number

Range: 1-31

day

Description Most recent day

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

expedite

Description Expedite the Backup

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

month

Description Most recent month

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

period

Description Specify backup period

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

stats-data

Description Backup web statistical data

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

week

Description Most recent week

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

waf

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssl-crl

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, replace, delete

file

Description ssl crl local file name

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 300 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

debug-monitor

Specification	Value
Type	*object*

action

Description 'export': export;

Type: string

Supported Values: export

file

Description debug monitor local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

web-service-cert-key

Specification	Value
Type	*object*

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

axdebug-capture

Specification	Value
Type	*object*

action

Description 'delete': delete;

Type: string

Supported Values: delete

file

Description axdebug local capture file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssl-cert-poc

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace, delete

certificate-type

Description 'pem': pem; 'der': der; 'pfx': pfx; 'p7b': p7b;

Type: string

Supported Values: pem, der, pfx, p7b

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

file

Description ssl certificate local file name

Type: string

Format: string-rlx

Maximum Length: 245 characters

Maximum Length: 1 characters

file-handle

Description public-key

Type: string

Format: string-rlx

Maximum Length: 2048 characters

Maximum Length: 1 characters

pfx-password

Description The password for certificate file (pfx type only)

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

csr

Specification	Value
Type	*object*

action

Description 'export': export;

Type: string

Supported Values: export

file

Description Specify the File Name

Type: string

Format: string-rlx

Maximum Length: 245 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 300 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

auth-portal-image

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace, delete

dst-file

Description Destination file name for copy and rename action

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file

Description Authentication portal image local file name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description Full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

core

Specification	Value
Type	*object*

action

Description 'export': export; 'delete': delete;

Type: string

Supported Values: export, delete

file

Description local core file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

slot

Description specify slot id in chassis

Type: number

Range: 0-1

ng-waf-module

Specification	Value
Type	*object*

action

Description 'import': import; 'replace': replace;

Type: string

Supported Values: import, replace

file

Description NG WAF module local file name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

template

Specification	Value
Type	*object*

act-type

Description Specify ACT package type (i.e. slug/destination name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace, delete

app

Description: app is a **JSON Block**. Please see below for *template_app*

Type: Object

Reference Object: */axapi/v3/file/template/app*

dst-file

Description destination file name for copy and rename action

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file

Description aflex local file name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_app

Specification	Value
Type	*object*

act-name

Description

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

action

Description

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

version

Description

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

class-list

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace, delete

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file

Description class list local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

glm-license

Specification	Value
Type	*object*

action

Description 'import': import;

Type: string

Supported Values: import

device

Description Device (Device ID)

Type: number

file

Description glm license local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

dnssec-ds

Specification	Value
Type	*object*

action

Description 'import': import; 'export': export;

Type: string

Supported Values: import, export

file

Description dnssec ds local file name

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

local-uri-file

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace, delete

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file

Description local uri file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ssl-key

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'replace': replace;

Type: string

Supported Values: create, import, export, replace

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

file

Description ssl key local file name

Type: string

Format: string-rlx

Maximum Length: 245 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 300 characters

Maximum Length: 1 characters

secured

Description Mark as non-exportable

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

license

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: import, export

device

Description Device (Device ID)

Type: number

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file

Description license local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ca-cert

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'replace': replace;

Type: string

Supported Values: create, import, export, replace

certificate-type

Description 'pem': pem; 'der': der; 'pfx': pfx; 'p7b': p7b;

Type: string

Supported Values: pem, der, pfx, p7b

file

Description ssl ca certificate local file name

Type: string

Format: string-rlx

Maximum Length: 245 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 300 characters

Maximum Length: 1 characters

pfx-password

Description The password for certificate file (pfx type only)

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

pfx-password-export

Description The password for exported certificate file (pfx type only)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

glm-cert

Specification	Value
Type	*object*

action

Description 'import': import;

Type: string

Supported Values: import

device

Description Device (Device ID)

Type: number

file

Description glm license local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

system-backup

Specification	Value
Type	*object*

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

techsupport

Specification	Value
Type	*object*

action

Description 'create': create; 'check': check; 'delete': delete; 'export': export;

Type: string

Supported Values: create, check, delete, export

file

Description techsupport local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

slot

Description specify slot id in chassis

Type: number

Range: 0-1

status

Description: status is a **JSON Block**. Please see below for *techsupport_status*

Type: Object

Reference Object: */axapi/v3/file/techsupport/status*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

techsupport_status

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

xml-schema

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace, delete

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file

Description XML-schema local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

startup-config

Specification	Value
Type	*object*

action

Description 'import': import;

Type: string

Supported Values: import

file

Description startup-config local file name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

auth-saml-idp

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace, delete

dst-file

Description Destination file name for copy and rename action

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file

Description SAML metadata local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description Full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

verify-xml-signature

Description Verify metadata's XML signature

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ssl-cert

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'replace': replace;

Type: string

Supported Values: create, import, export, replace

certificate-type

Description 'pem': pem; 'der': der; 'pfx': pfx; 'p7b': p7b;

Type: string

Supported Values: pem, der, pfx, p7b

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 245 characters

Maximum Length: 1 characters

file

Description ssl certificate local file name

Type: string

Format: string-rlx

Maximum Length: 245 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 300 characters

Maximum Length: 1 characters

pfx-password

Description The password for certificate file (pfx type only)

Type: string

Format: password

Maximum Length: 128 characters

Maximum Length: 1 characters

pfx-password-export

Description The password for exported certificate file (pfx type only)

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dnssec-dnskey

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace, delete

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

file

Description dnssec dnskey local file name

Type: string

Maximum Length: 127 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

health-external

Specification	Value
Type	*object*

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace, delete

description

Description Describe the Program Function briefly

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

file

Description Specify the Program Name

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.50.2 file aflex oper

Operational Status for the object aflex

aflex Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	aflex
Element URI	/axapi/v3/file/aflex/oper
Element Attributes	aflex_attributes
Partition Visibility	None
Schema	`aflex schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/aflex/oper

aflex attributes

Get Object

GET

/axapi/v3/file/aflex/oper

aflex attributes

Modify Object

POST

/axapi/v3/file/aflex/oper

aflex attributes

Replace Object

PUT

/axapi/v3/file/aflex/oper

aflex attributes

Delete Object

DELETE

/axapi/v3/file/aflex/oper

aflex attributes

aflex attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

events

Type: List

file

Description

Type: string

syntax

Description

Type: string

vport

Description

Type: string

vport-list

Type: List

waf-rule

Type: List

oper_file-list_events

Specification	Value
Type	*list*
Block object keys	

aborts

Description

Type: number

event-type

Description

Type: string

failures

Description

Type: number

total-executions

Description

Type: number

oper_file-list_vport-list

Specification	Value
Type	*list*
Block object keys	

port

Description

Type: number

vserver

Description

Type: string

oper_file-list_waf-rule

Specification	Value
Type	*list*
Block object keys	

waf-rule-aborts

Description

Type: number

waf-rule-failures

Description

Type: number

waf-rule-name

Description

Type: string

waf-rule-total

Description

Type: number

2.50.3 file auth-jwks oper

Operational Status for the object auth-jwks

auth-jwks Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	auth-jwks
Element URI	/axapi/v3/file/auth-jwks/oper
Element Attributes	auth-jwks_attributes
Partition Visibility	None
Schema	`auth-jwks schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/auth-jwks/oper

auth-jwks attributes

Get Object

GET

/axapi/v3/file/auth-jwks/oper

auth-jwks attributes

Modify Object

POST

/axapi/v3/file/auth-jwks/oper

auth-jwks attributes

Replace Object

PUT

/axapi/v3/file/auth-jwks/oper

auth-jwks attributes

Delete Object

DELETE

/axapi/v3/file/auth-jwks/oper

auth-jwks attributes

auth-jwks attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

Format: string-rlx

2.50.4 file auth-portal-image oper

Operational Status for the object auth-portal-image

auth-portal-image Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	auth-portal-image
Element URI	/axapi/v3/file/auth-portal-image/oper
Element Attributes	auth-portal-image_attributes
Partition Visibility	None
Schema	`auth-portal-image schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/auth-portal-image/oper

auth-portal-image attributes

Get Object

GET

/axapi/v3/file/auth-portal-image/oper

auth-portal-image attributes

Modify Object

POST

/axapi/v3/file/auth-portal-image/oper

auth-portal-image attributes

Replace Object

PUT

/axapi/v3/file/auth-portal-image/oper

auth-portal-image attributes

Delete Object

DELETE

/axapi/v3/file/auth-portal-image/oper

auth-portal-image attributes

auth-portal-image attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

Format: string-rlx

2.50.5 file auth-portal oper

Operational Status for the object auth-portal

auth-portal Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	auth-portal
Element URI	/axapi/v3/file/auth-portal/oper
Element Attributes	auth-portal_attributes
Partition Visibility	None
Schema	`auth-portal schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/auth-portal/oper

auth-portal attributes

Get Object

GET

/axapi/v3/file/auth-portal/oper

auth-portal attributes

Modify Object

POST

/axapi/v3/file/auth-portal/oper

auth-portal attributes

Replace Object

PUT

/axapi/v3/file/auth-portal/oper

auth-portal attributes

Delete Object

DELETE

/axapi/v3/file/auth-portal/oper

auth-portal attributes

auth-portal attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

Format: string-rlx

2.50.6 file auth-saml-idp oper

Operational Status for the object auth-saml-idp

auth-saml-idp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	auth-saml-idp
Element URI	/axapi/v3/file/auth-saml-idp/oper
Element Attributes	auth-saml-idp_attributes
Partition Visibility	None
Schema	`auth-saml-idp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/auth-saml-idp/oper

auth-saml-idp attributes

Get Object

GET

/axapi/v3/file/auth-saml-idp/oper

auth-saml-idp attributes

Modify Object

POST

/axapi/v3/file/auth-saml-idp/oper

auth-saml-idp attributes

Replace Object

PUT

/axapi/v3/file/auth-saml-idp/oper

auth-saml-idp attributes

Delete Object

DELETE

/axapi/v3/file/auth-saml-idp/oper

auth-saml-idp attributes

auth-saml-idp attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

2.50.7 file aws-accesskey oper

Operational Status for the object aws-accesskey

aws-accesskey Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	aws-accesskey
Element URI	/axapi/v3/file/aws-accesskey/oper
Element Attributes	aws-accesskey_attributes
Partition Visibility	None
Schema	`aws-accesskey schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/aws-accesskey/oper

aws-accesskey attributes

Get Object

GET

/axapi/v3/file/aws-accesskey/oper

aws-accesskey attributes

Modify Object

POST

/axapi/v3/file/aws-accesskey/oper

aws-accesskey attributes

Replace Object

PUT

/axapi/v3/file/aws-accesskey/oper

aws-accesskey attributes

Delete Object

DELETE

/axapi/v3/file/aws-accesskey/oper

aws-accesskey attributes

aws-accesskey attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

comment

Description

Type: string

content

Description

Type: string

index

Description

Type: string

type

Description

Type: string

user

Description

Type: string

2.50.8 file axdebug-capture oper

Operational Status for the object axdebug-capture

axdebug-capture Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	axdebug-capture
Element URI	/axapi/v3/file/axdebug-capture/oper
Element Attributes	axdebug-capture_attributes
Partition Visibility	None
Schema	`axdebug-capture schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/axdebug-capture/oper

axdebug-capture attributes

Get Object

GET

/axapi/v3/file/axdebug-capture/oper

axdebug-capture attributes

Modify Object

POST

/axapi/v3/file/axdebug-capture/oper

axdebug-capture attributes

Replace Object

PUT

/axapi/v3/file/axdebug-capture/oper

axdebug-capture attributes

Delete Object

DELETE

/axapi/v3/file/axdebug-capture/oper

axdebug-capture attributes

axdebug-capture attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

size

Description

Type: number

update-time

Description

Type: string

2.50.9 file axdebug-config oper

Operational Status for the object axdebug-config

axdebug-config Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	axdebug-config
Element URI	/axapi/v3/file/axdebug-config/oper
Element Attributes	axdebug-config_attributes
Partition Visibility	None
Schema	`axdebug-config schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/axdebug-config/oper

axdebug-config attributes

Get Object

GET

/axapi/v3/file/axdebug-config/oper

axdebug-config attributes

Modify Object

POST

/axapi/v3/file/axdebug-config/oper

axdebug-config attributes

Replace Object

PUT

/axapi/v3/file/axdebug-config/oper

axdebug-config attributes

Delete Object

DELETE

/axapi/v3/file/axdebug-config/oper

axdebug-config attributes

axdebug-config attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

size

Description

Type: number

update-time

Description

Type: string

2.50.10 file bw-list oper

Operational Status for the object bw-list

bw-list Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	bw-list
Element URI	/axapi/v3/file/bw-list/oper
Element Attributes	bw-list_attributes
Partition Visibility	None
Schema	`bw-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/bw-list/oper

bw-list attributes

Get Object

GET

/axapi/v3/file/bw-list/oper

bw-list attributes

Modify Object

POST

/axapi/v3/file/bw-list/oper

bw-list attributes

Replace Object

PUT

/axapi/v3/file/bw-list/oper

bw-list attributes

Delete Object

DELETE

/axapi/v3/file/bw-list/oper

bw-list attributes

bw-list attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

error-line

Description

Type: string

file

Description

Type: string

parse-errors

Description

Type: number

period

Description

Type: number

ref-count

Description

Type: number

update-times

Description

Type: number

url

Description

Type: string

2.50.11 file ca-cert oper

Operational Status for the object ca-cert

ca-cert Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ca-cert
Element URI	/axapi/v3/file/ca-cert/oper
Element Attributes	ca-cert_attributes
Partition Visibility	None
Schema	`ca-cert schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/ca-cert/oper

ca-cert attributes

Get Object

GET

/axapi/v3/file/ca-cert/oper

ca-cert attributes

Modify Object

POST

/axapi/v3/file/ca-cert/oper

ca-cert attributes

Replace Object

PUT

/axapi/v3/file/ca-cert/oper

ca-cert attributes

Delete Object

DELETE

/axapi/v3/file/ca-cert/oper

ca-cert attributes

ca-cert attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

partition

Description

Type: string

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

2.50.12 file class-list oper

Operational Status for the object class-list

class-list Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	class-list
Element URI	/axapi/v3/file/class-list/oper
Element Attributes	class-list_attributes
Partition Visibility	None
Schema	`class-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/class-list/oper

class-list attributes

Get Object

GET

/axapi/v3/file/class-list/oper

class-list attributes

Modify Object

POST

/axapi/v3/file/class-list/oper

class-list attributes

Replace Object

PUT

/axapi/v3/file/class-list/oper

class-list attributes

Delete Object

DELETE

/axapi/v3/file/class-list/oper

class-list attributes

class-list attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

location

Description

Type: string

size

Description

Type: string

type

Description

Type: string

user-tag

Description

Type: string

2.50.13 file csr oper

Operational Status for the object csr

csr Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	csr
Element URI	/axapi/v3/file/csr/oper
Element Attributes	csr_attributes
Partition Visibility	None
Schema	`csr schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/csr/oper

csr attributes

Get Object

GET

/axapi/v3/file/csr/oper

csr attributes

Modify Object

POST

/axapi/v3/file/csr/oper

csr attributes

Replace Object

PUT

/axapi/v3/file/csr/oper

csr attributes

Delete Object

DELETE

/axapi/v3/file/csr/oper

csr attributes

csr attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

sortby-name

Description

Type: boolean

Supported Values: true, false, 1, 0

ssl-csr

Type: List

oper_ssl-csr

Specification	Value
Type	*list*
Block object keys	

common-name

Description

Type: string

name

Description

Type: string

organization

Description

Type: string

status

Description

Type: string

subject

Description

Type: string

type

Description

Type: string

2.50.14 file dnssec-dnskey oper

Operational Status for the object dnssec-dnskey

dnssec-dnskey Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dnssec-dnskey
Element URI	/axapi/v3/file/dnssec-dnskey/oper
Element Attributes	dnssec-dnskey_attributes
Partition Visibility	None
Schema	`dnssec-dnskey schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/dnssec-dnskey/oper

dnssec-dnskey attributes

Get Object

GET

/axapi/v3/file/dnssec-dnskey/oper

dnssec-dnskey attributes

Modify Object

POST

/axapi/v3/file/dnssec-dnskey/oper

dnssec-dnskey attributes

Replace Object

PUT

/axapi/v3/file/dnssec-dnskey/oper

dnssec-dnskey attributes

Delete Object

DELETE

/axapi/v3/file/dnssec-dnskey/oper

dnssec-dnskey attributes

dnssec-dnskey attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

parent

Description

Type: string

2.50.15 file dnssec-ds oper

Operational Status for the object dnssec-ds

dnssec-ds Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dnssec-ds
Element URI	/axapi/v3/file/dnssec-ds/oper
Element Attributes	dnssec-ds_attributes
Partition Visibility	None
Schema	`dnssec-ds schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/dnssec-ds/oper

dnssec-ds attributes

Get Object

GET

/axapi/v3/file/dnssec-ds/oper

dnssec-ds attributes

Modify Object

POST

/axapi/v3/file/dnssec-ds/oper

dnssec-ds attributes

Replace Object

PUT

/axapi/v3/file/dnssec-ds/oper

dnssec-ds attributes

Delete Object

DELETE

/axapi/v3/file/dnssec-ds/oper

dnssec-ds attributes

dnssec-ds attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

parent

Description

Type: string

2.50.16 file domain-list

domain list file information and management commands

domain-list Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	domain-list
Element URI	/axapi/v3/file/domain-list
Element Attributes	domain-list_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/file/domain-list/oper
Schema	`domain-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/domain-list

domain-list attributes

```
POST /axapi/v3/file/domain-list
Payload:
{
    "domain-list": {
        "action": "copy",
        "file": "a"
    }
}
```

Get Object

GET

/axapi/v3/file/domain-list

domain-list attributes

Modify Object

POST

/axapi/v3/file/domain-list

domain-list attributes

Replace Object

PUT

/axapi/v3/file/domain-list

domain-list attributes

Delete Object

DELETE

/axapi/v3/file/domain-list

domain-list attributes

domain-list attributes

action

Description 'create': create; 'import': import; 'export': export; 'copy': copy; 'rename': rename; 'check': check; 'replace': replace; 'delete': delete;

Type: string

Supported Values: create, import, export, copy, rename, check, replace

dst-file

Description destination file name for copy and rename action

Type: string

Maximum Length: 32 characters

Maximum Length: 1 characters

file

Description domain list local file name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.50.17 file domain-list oper

Operational Status for the object domain-list

domain-list Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	domain-list
Element URI	/axapi/v3/file/domain-list/oper
Element Attributes	domain-list_attributes
Partition Visibility	None
Schema	`domain-list schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/domain-list/oper

domain-list attributes

Get Object

GET

/axapi/v3/file/domain-list/oper

domain-list attributes

Modify Object

POST

/axapi/v3/file/domain-list/oper

domain-list attributes

Replace Object

PUT

/axapi/v3/file/domain-list/oper

domain-list attributes

Delete Object

DELETE

/axapi/v3/file/domain-list/oper

domain-list attributes

domain-list attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

displayed-count

Description

Type: number

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

binding-num

Description

Type: number

file

Description

Type: string

total-entry-num

Description

Type: number

type-str

Description

Type: string

2.50.18 file geo-location oper

Operational Status for the object geo-location

geo-location Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	geo-location
Element URI	/axapi/v3/file/geo-location/oper
Element Attributes	geo-location_attributes
Partition Visibility	None
Schema	`geo-location schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/geo-location/oper

geo-location attributes

Get Object

GET

/axapi/v3/file/geo-location/oper

geo-location attributes

Modify Object

POST

/axapi/v3/file/geo-location/oper

geo-location attributes

Replace Object

PUT

/axapi/v3/file/geo-location/oper

geo-location attributes

Delete Object

DELETE

/axapi/v3/file/geo-location/oper

geo-location attributes

geo-location attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

2.50.19 file health-external oper

Operational Status for the object health-external

health-external Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	health-external
Element URI	/axapi/v3/file/health-external/oper
Element Attributes	health-external_attributes
Partition Visibility	None
Schema	`health-external schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/health-external/oper

health-external attributes

Get Object

GET

/axapi/v3/file/health-external/oper

health-external attributes

Modify Object

POST

/axapi/v3/file/health-external/oper

health-external attributes

Replace Object

PUT

/axapi/v3/file/health-external/oper

health-external attributes

Delete Object

DELETE

/axapi/v3/file/health-external/oper

health-external attributes

health-external attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

all-partitions

Description

Type: number

content

Description

Type: number

desc

Description

Type: string

file

Description

Type: string

partition

Description

Type: string

2.50.20 file health-postfile oper

Operational Status for the object health-postfile

health-postfile Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	health-postfile
Element URI	/axapi/v3/file/health-postfile/oper
Element Attributes	health-postfile_attributes
Partition Visibility	None
Schema	`health-postfile schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/health-postfile/oper

health-postfile attributes

Get Object

GET

/axapi/v3/file/health-postfile/oper

health-postfile attributes

Modify Object

POST

/axapi/v3/file/health-postfile/oper

health-postfile attributes

Replace Object

PUT

/axapi/v3/file/health-postfile/oper

health-postfile attributes

Delete Object

DELETE

/axapi/v3/file/health-postfile/oper

health-postfile attributes

health-postfile attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

all-partitions

Description

Type: number

content

Description

Type: number

file

Description

Type: string

partition

Description

Type: string

2.50.21 file license oper

Operational Status for the object license

license Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	license
Element URI	/axapi/v3/file/license/oper
Element Attributes	license_attributes
Partition Visibility	None
Schema	`license schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/license/oper

license attributes

Get Object

GET

/axapi/v3/file/license/oper

license attributes

Modify Object

POST

/axapi/v3/file/license/oper

license attributes

Replace Object

PUT

/axapi/v3/file/license/oper

license attributes

Delete Object

DELETE

/axapi/v3/file/license/oper

license attributes

license attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

feature-list

Type: List

file-list

Type: List

host-id

Description

Type: string

oper_feature-list

Specification	Value
Type	*list*
Block object keys	

SN

Description

Type: string

Temporary

Description

Type: string

bandwidth

Description

Type: string

expire-date

Description

Type: string

feature-installed

Description

Type: string

notice

Description

Type: string

version

Description

Type: string

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file_name

Description

Type: string

2.50.22 file local-uri-file oper

Operational Status for the object local-uri-file

local-uri-file Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	local-uri-file
Element URI	/axapi/v3/file/local-uri-file/oper
Element Attributes	local-uri-file_attributes
Partition Visibility	None
Schema	`local-uri-file schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/local-uri-file/oper

local-uri-file attributes

Get Object

GET

/axapi/v3/file/local-uri-file/oper

local-uri-file attributes

Modify Object

POST

/axapi/v3/file/local-uri-file/oper

local-uri-file attributes

Replace Object

PUT

/axapi/v3/file/local-uri-file/oper

local-uri-file attributes

Delete Object

DELETE

/axapi/v3/file/local-uri-file/oper

local-uri-file attributes

local-uri-file attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

template

Description

Type: string

url

Description

Type: string

2.50.23 file rpz

Response Policy Zone

rpz Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rpz
Element URI	/axapi/v3/file/rpz
Element Attributes	rpz_attributes
Partition Visibility	shared
Schema	`rpz schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/rpz

rpz attributes

```
POST /axapi/v3/file/rpz
Payload:
{
    "rpz": {
        "device": 1,
        "action": "import",
        "file": "a"
    }
}
```

Get Object

GET

/axapi/v3/file/rpz

rpz attributes

Modify Object

POST

/axapi/v3/file/rpz

rpz attributes

Replace Object

PUT

/axapi/v3/file/rpz

rpz attributes

Delete Object

DELETE

/axapi/v3/file/rpz

rpz attributes

rpz attributes

action

Description 'import': import; 'export': export; 'check': check; 'delete': delete; 'replace': replace;

Type: string

Supported Values: import, export, check, delete, replace

device

Description Device (Device ID)

Type: number

file

Description RPZ file name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.50.24 file ssh-pubkey oper

Operational Status for the object ssh-pubkey

ssh-pubkey Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ssh-pubkey
Element URI	/axapi/v3/file/ssh-pubkey/oper
Element Attributes	ssh-pubkey_attributes
Partition Visibility	None
Schema	`ssh-pubkey schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/ssh-pubkey/oper

ssh-pubkey attributes

Get Object

GET

/axapi/v3/file/ssh-pubkey/oper

ssh-pubkey attributes

Modify Object

POST

/axapi/v3/file/ssh-pubkey/oper

ssh-pubkey attributes

Replace Object

PUT

/axapi/v3/file/ssh-pubkey/oper

ssh-pubkey attributes

Delete Object

DELETE

/axapi/v3/file/ssh-pubkey/oper

ssh-pubkey attributes

ssh-pubkey attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

comment

Description

Type: string

content

Description

Type: string

index

Description

Type: string

type

Description

Type: string

user

Description

Type: string

2.50.25 file ssl-cert oper

Operational Status for the object ssl-cert

ssl-cert Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ssl-cert
Element URI	/axapi/v3/file/ssl-cert/oper
Element Attributes	ssl-cert_attributes
Partition Visibility	None
Schema	`ssl-cert schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/ssl-cert/oper

ssl-cert attributes

Get Object

GET

/axapi/v3/file/ssl-cert/oper

ssl-cert attributes

Modify Object

POST

/axapi/v3/file/ssl-cert/oper

ssl-cert attributes

Replace Object

PUT

/axapi/v3/file/ssl-cert/oper

ssl-cert attributes

Delete Object

DELETE

/axapi/v3/file/ssl-cert/oper

ssl-cert attributes

ssl-cert attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

partition

Description

Type: string

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

2.50.26 file ssl-crl oper

Operational Status for the object ssl-crl

ssl-crl Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ssl-crl
Element URI	/axapi/v3/file/ssl-crl/oper
Element Attributes	ssl-crl_attributes
Partition Visibility	None
Schema	`ssl-crl schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/ssl-crl/oper

ssl-crl attributes

Get Object

GET

/axapi/v3/file/ssl-crl/oper

ssl-crl attributes

Modify Object

POST

/axapi/v3/file/ssl-crl/oper

ssl-crl attributes

Replace Object

PUT

/axapi/v3/file/ssl-crl/oper

ssl-crl attributes

Delete Object

DELETE

/axapi/v3/file/ssl-crl/oper

ssl-crl attributes

ssl-crl attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

partition

Description

Type: string

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

issuer

Description

Type: string

2.50.27 file ssl-key oper

Operational Status for the object ssl-key

ssl-key Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ssl-key
Element URI	/axapi/v3/file/ssl-key/oper
Element Attributes	ssl-key_attributes
Partition Visibility	None
Schema	`ssl-key schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/ssl-key/oper

ssl-key attributes

Get Object

GET

/axapi/v3/file/ssl-key/oper

ssl-key attributes

Modify Object

POST

/axapi/v3/file/ssl-key/oper

ssl-key attributes

Replace Object

PUT

/axapi/v3/file/ssl-key/oper

ssl-key attributes

Delete Object

DELETE

/axapi/v3/file/ssl-key/oper

ssl-key attributes

ssl-key attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

partition

Description

Type: string

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

2.50.28 file startup-config oper

Operational Status for the object startup-config

startup-config Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	startup-config
Element URI	/axapi/v3/file/startup-config/oper
Element Attributes	startup-config_attributes
Partition Visibility	None
Schema	`startup-config schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/startup-config/oper

startup-config attributes

Get Object

GET

/axapi/v3/file/startup-config/oper

startup-config attributes

Modify Object

POST

/axapi/v3/file/startup-config/oper

startup-config attributes

Replace Object

PUT

/axapi/v3/file/startup-config/oper

startup-config attributes

Delete Object

DELETE

/axapi/v3/file/startup-config/oper

startup-config attributes

startup-config attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

current-startup-config

Description

Type: string

Format: string-rlx

dirty

Description

Type: number

file-list

Type: List

pri-startup-config

Description

Type: string

Format: string-rlx

sec-startup-config

Description

Type: string

Format: string-rlx

oper_file-list

Specification	Value
Type	*list*
Block object keys	

Profile-Name

Description

Type: string

Format: string-rlx

Size

Description

Type: number

update-time

Description

Type: string

2.50.29 file techsupport oper

Operational Status for the object techsupport

techsupport Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	techsupport
Element URI	/axapi/v3/file/techsupport/oper
Element Attributes	techsupport_attributes
Partition Visibility	None
Schema	`techsupport schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/techsupport/oper

techsupport attributes

Get Object

GET

/axapi/v3/file/techsupport/oper

techsupport attributes

Modify Object

POST

/axapi/v3/file/techsupport/oper

techsupport attributes

Replace Object

PUT

/axapi/v3/file/techsupport/oper

techsupport attributes

Delete Object

DELETE

/axapi/v3/file/techsupport/oper

techsupport attributes

techsupport attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

status

Description: status is a **JSON Block**. Please see below for *status*

Type: Object

Reference Object: */axapi/v3/file/techsupport/status*

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

size

Description

Type: number

update-time

Description

Type: string

status

Specification	Value
Type	*object*

oper

Description: oper is a **JSON Block**. Please see below for *status_oper*

Type: Object

status_oper

Specification	Value
Type	*object*

message

Description

Type: string

2.50.30 file techsupport status oper

Operational Status for the object status

status Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	status
Element URI	/axapi/v3/file/techsupport/status/oper
Element Attributes	status_attributes
Partition Visibility	None
Schema	`status schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/techsupport/status/oper

status attributes

Get Object

GET

/axapi/v3/file/techsupport/status/oper

status attributes

Modify Object

POST

/axapi/v3/file/techsupport/status/oper

status attributes

Replace Object

PUT

/axapi/v3/file/techsupport/status/oper

status attributes

Delete Object

DELETE

/axapi/v3/file/techsupport/status/oper

status attributes

status attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

message

Description

Type: string

2.50.31 file template oper

Operational Status for the object template

template Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	template
Element URI	/axapi/v3/file/template/oper
Element Attributes	template_attributes
Partition Visibility	None
Schema	`template schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/template/oper

template attributes

Get Object

GET

/axapi/v3/file/template/oper

template attributes

Modify Object

POST

/axapi/v3/file/template/oper

template attributes

Replace Object

PUT

/axapi/v3/file/template/oper

template attributes

Delete Object

DELETE

/axapi/v3/file/template/oper

template attributes

template attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

single-act-upgrade-support

Description

Type: string

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

2.50.32 file tsig

Transaction SIGnatures

tsig Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tsig
Element URI	/axapi/v3/file/tsig
Element Attributes	tsig_attributes
Partition Visibility	shared
Schema	`tsig schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/tsig

tsig attributes

```
POST /axapi/v3/file/tsig
Payload:
{
    "tsig": {
        "device": 1,
        "action": "import",
        "file": "a"
    }
}
```

Get Object

GET

/axapi/v3/file/tsig

tsig attributes

Modify Object

POST

/axapi/v3/file/tsig

tsig attributes

Replace Object

PUT

/axapi/v3/file/tsig

tsig attributes

Delete Object

DELETE

/axapi/v3/file/tsig

tsig attributes

tsig attributes

action

Description 'import': import; 'export': export; 'check': check; 'delete': delete; 'replace': replace;

Type: string

Supported Values: import, export, check, delete, replace

device

Description Device (Device ID)

Type: number

file

Description TSIG file name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

file-handle

Description full path of the uploaded file

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.50.33 file waf oper

Operational Status for the object waf

waf Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	waf
Element URI	/axapi/v3/file/waf/oper
Element Attributes	waf_attributes
Partition Visibility	None
Schema	`waf schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/waf/oper

waf attributes

Get Object

GET

/axapi/v3/file/waf/oper

waf attributes

Modify Object

POST

/axapi/v3/file/waf/oper

waf attributes

Replace Object

PUT

/axapi/v3/file/waf/oper

waf attributes

Delete Object

DELETE

/axapi/v3/file/waf/oper

waf attributes

waf attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

2.50.34 file xml-schema oper

Operational Status for the object xml-schema

xml-schema Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	xml-schema
Element URI	/axapi/v3/file/xml-schema/oper
Element Attributes	xml-schema_attributes
Partition Visibility	None
Schema	`xml-schema schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file/xml-schema/oper

xml-schema attributes

Get Object

GET

/axapi/v3/file/xml-schema/oper

xml-schema attributes

Modify Object

POST

/axapi/v3/file/xml-schema/oper

xml-schema attributes

Replace Object

PUT

/axapi/v3/file/xml-schema/oper

xml-schema attributes

Delete Object

DELETE

/axapi/v3/file/xml-schema/oper

xml-schema attributes

xml-schema attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

file-list

Type: List

oper_file-list

Specification	Value
Type	*list*
Block object keys	

file

Description

Type: string

syntax

Description

Type: string

template

Description

Type: string

2.51 file-system

Objects:

2.51.1 file-system

Manage log files

file-system Specification

Parameter	Value
Type	*operational*
Element Name	file-system
Element URI	/axapi/v3/file-system
Element Attributes	file-system_attributes
Partition Visibility	shared
Schema	`file-system schema`

Operations Allowed:

EXECUTE Object

POST

/axapi/v3/file-system

file-system attributes

file-system attributes

a10log

Description: a10log is a **JSON Block**. Please see below for *a10log*

Type: Object

Reference Object: */axapi/v3/file-system/a10log*

syslog

Description: syslog is a **JSON Block**. Please see below for *syslog*

Type: Object

Reference Object: */axapi/v3/file-system/syslog*

varlog

Description: varlog is a **JSON Block**. Please see below for *varlog*

Type: Object

Reference Object: */axapi/v3/file-system/varlog*

varlog

Specification	Value
Type	*object*

filename

Description Filename to remove

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

rm

Description Remove file

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

a10log

Specification	Value
Type	*object*

filename

Description Filename to remove

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

rm

Description Remove file

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

syslog

Specification	Value
Type	*object*

filename

Description Filename to remove

Type: string

Format: string-rlx

Maximum Length: 128 characters

Maximum Length: 1 characters

rm

Description Remove file

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.51.2 file-system a10log oper

Operational Status for the object a10log

a10log Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	a10log
Element URI	/axapi/v3/file-system/a10log/oper
Element Attributes	a10log_attributes
Partition Visibility	None
Schema	`a10log schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file-system/a10log/oper

a10log attributes

Get Object

GET

/axapi/v3/file-system/a10log/oper

a10log attributes

Modify Object

POST

/axapi/v3/file-system/a10log/oper

a10log attributes

Replace Object

PUT

/axapi/v3/file-system/a10log/oper

a10log attributes

Delete Object

DELETE

/axapi/v3/file-system/a10log/oper

a10log attributes

a10log attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

resp

Type: List

oper_resp

Specification	Value
Type	*list*
Block object keys	

message

Description

Type: string

2.51.3 file-system syslog oper

Operational Status for the object syslog

syslog Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	syslog
Element URI	/axapi/v3/file-system/syslog/oper
Element Attributes	syslog_attributes
Partition Visibility	None
Schema	`syslog schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file-system/syslog/oper

syslog attributes

Get Object

GET

/axapi/v3/file-system/syslog/oper

syslog attributes

Modify Object

POST

/axapi/v3/file-system/syslog/oper

syslog attributes

Replace Object

PUT

/axapi/v3/file-system/syslog/oper

syslog attributes

Delete Object

DELETE

/axapi/v3/file-system/syslog/oper

syslog attributes

syslog attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

resp

Type: List

oper_resp

Specification	Value
Type	*list*
Block object keys	

message

Description

Type: string

2.51.4 file-system varlog oper

Operational Status for the object varlog

varlog Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	varlog
Element URI	/axapi/v3/file-system/varlog/oper
Element Attributes	varlog_attributes
Partition Visibility	None
Schema	`varlog schema`

Operations Allowed:

Create Object

POST

/axapi/v3/file-system/varlog/oper

varlog attributes

Get Object

GET

/axapi/v3/file-system/varlog/oper

varlog attributes

Modify Object

POST

/axapi/v3/file-system/varlog/oper

varlog attributes

Replace Object

PUT

/axapi/v3/file-system/varlog/oper

varlog attributes

Delete Object

DELETE

/axapi/v3/file-system/varlog/oper

varlog attributes

varlog attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

resp

Type: List

oper_resp

Specification	Value
Type	*list*
Block object keys	

message

Description

Type: string

2.52 flowspec

Objects:

2.52.1 flowspec

Configure Flowspec

flowspec Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*name*
Collection Name	*flowspec-list*
Collection URI	/axapi/v3/flowspec
Element Name	flowspec
Element URI	/axapi/v3/flowspec/{name}
Element Attributes	flowspec_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/flowspec/{name}/oper
Schema	`flowspec schema`

Operations Allowed:

Create Object

POST

/axapi/v3/flowspec

flowspec attributes

```
POST /axapi/v3/flowspec/
Payload:
{
    "flowspec": {
        "name": "a",
        "user-tag": "a"
    }
}
```

Create List

POST

/axapi/v3/flowspec

flowspec attributes

Get Object

GET

/axapi/v3/flowspec/{name}

flowspec attributes

```
GET /axapi/v3/flowspec/a
Reponse:
{
    "flowspec": {
        "name": "a",
        "uuid": "b48cc6a8-08fa-11f0-8ff3-bb094934892a",
        "user-tag": "a",
```

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```
        "a10-url": "/axapi/v3/flowspec/a"
    }
}
```

Get List

GET

/axapi/v3/flowspec

flowspec-list

Modify Object

POST

/axapi/v3/flowspec/{name}

flowspec attributes

Replace Object

PUT

/axapi/v3/flowspec/{name}

flowspec attributes

```
PUT /axapi/v3/flowspec/a
Payload:
{
    "flowspec": {
        "name": "a",
        "user-tag": "abcd"
    }
}
```

Replace List

PUT

/axapi/v3/flowspec

flowspec-list

Delete Object

DELETE

/axapi/v3/flowspec/{name}

flowspec attributes

```
DELETE /axapi/v3/flowspec/a
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
```

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```
        "msg": "Success"
    }
}
```

flowspec-list

flowspec-list is **JSON List** of *flowspec attributes*

flowspec-list : [

{ *flowspec attributes* },

{ *flowspec attributes* },

...

]

flowspec attributes

dest-addr-type

Description 'ip': IPv4 Address; 'ipv6': IPv6 Address;

Type: string

Supported Values: ip, ipv6

dest-ip-host

Description IPv4 host address

Type: string

Format: ipv4-address

Mutual Exclusion: dest-ip-host and dest-ip-subnet are mutually exclusive

dest-ip-subnet

Description IPv4 Subnet address

Type: string

Format: ipv4-cidr

Mutual Exclusion: dest-ip-subnet and dest-ip-host are mutually exclusive

dest-ipv6-host

Description IPv6 host address

Type: string

Format: ipv6-address

Mutual Exclusion: dest-ipv6-host and dest-ipv6-subnet are mutually exclusive

dest-ipv6-subnet

Description IPv6 Subnet address

Type: string

Format: ipv6-address-plen

Mutual Exclusion: dest-ipv6-subnet and dest-ipv6-host are mutually exclusive

destination-port-list

Type: List

Reference Object: */axapi/v3/flowspec/{name}/destination-port/{port-attribute}+{port-num}+{port-num-end}*

dscp-list

Type: List

Reference Object: */axapi/v3/flowspec/{name}/dscp/{dscp-attribute}+{dscp-val}+{dscp-val-end}*

filtering-action

Description: filtering-action is a **JSON Block**. Please see below for *filtering-action*

Type: Object

Reference Object: */axapi/v3/flowspec/{name}/filtering-action*

fragmentation-option-list

Type: List

Reference Object: */axapi/v3/flowspec/{name}/fragmentation-option/{frag-attribute}*

icmp-code-list

Type: List

Reference Object: */axapi/v3/flowspec/{name}/icmp-code/{icmp-code-attribute}+{code}+{code-end}*

icmp-type-list

Type: List

Reference Object: */axapi/v3/flowspec/{name}/icmp-type/{icmp-type-attribute}+{type}+{type-end}*

name

Description Flowspec name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

operational-mode

Description: operational-mode is a **JSON Block**. Please see below for *operational-mode*

Type: Object

Reference Object: */axapi/v3/flowspec/{name}/operational-mode*

packet-length-list

Type: List

Reference Object: */axapi/v3/flowspec/{name}/packet-length/{packet-length-attribute}+{length}+{length-end}*

port-list

Type: List

Reference Object: */axapi/v3/flowspec/{name}/port/{port-attribute}+{port-num}+{port-num-end}*

protocol-list

Type: List

Reference Object: */axapi/v3/flowspec/{name}/protocol/{proto-attribute}+{proto-num}+{proto-num-end}*

source-port-list

Type: List

Reference Object: */axapi/v3/flowspec/{name}/source-port/{port-attribute}+{port-num}+{port-num-end}*

src-addr-type

Description 'ip': IPv4 Address; 'ipv6': IPv6 Address;

Type: string

Supported Values: ip, ipv6

src-ip-host

Description IPv4 host address

Type: string

Format: ipv4-address

Mutual Exclusion: src-ip-host and src-ip-subnet are mutually exclusive

src-ip-subnet

Description IPv4 Subnet address

Type: string

Format: ipv4-cidr

Mutual Exclusion: src-ip-subnet and src-ip-host are mutually exclusive

src-ipv6-host

Description IPv6 host address

Type: string

Format: ipv6-address

Mutual Exclusion: src-ipv6-host and src-ipv6-subnet are mutually exclusive

src-ipv6-subnet

Description IPv6 Subnet address

Type: string

Format: ipv6-address-plen

Mutual Exclusion: src-ipv6-subnet and src-ipv6-host are mutually exclusive

tcp-flags

Description 'match-all': not = 0 match = 1; 'none-of': not = 1 match = 0; 'not-match': not = 1 match = 1; 'match-any': not = 0 match = 0;

Type: string

Supported Values: match-all, none-of, not-match, match-any

tcp-flags-bitmask

Description Bitmask in Hex

Type: string

Format: time

Maximum Length: 65535 characters

Maximum Length: 1 characters

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

port-list

Specification	Value
Type	*list*
Block object keys	

port-attribute

Description 'eq': Match only packets on a given port; 'gt': Match only packets with a greater port number; 'lt': Match only packets with a lower port number; 'range': match only packets in the range of port numbers;

Type: string

Supported Values: eq, gt, lt, range

port-num

Description Specify the port number

Type: number

Range: 1-65535

port-num-end

Description Specify the port number

Type: number

Range: 2-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

dscp-list

Specification	Value
Type	*list*
Block object keys	

dscp-attribute

Description 'eq': Match only packets on a given DSCP; 'gt': Match only packets with a greater DSCP; 'lt': Match only packets with a lower DSCP; 'range': match only packets in the range of DSCPs;

Type: string

Supported Values: eq, gt, lt, range

dscp-val

Description Specify the DSCP value

Type: number

Range: 1-63

dscp-val-end

Description Specify the DSCP value

Type: number

Range: 2-63

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

destination-port-list

Specification	Value
Type	*list*
Block object keys	

port-attribute

Description 'eq': Match only packets on a given destination port; 'gt': Match only packets with a greater port number; 'lt': Match only packets with a lower port number; 'range': match only packets in the range of port numbers;

Type: string

Supported Values: eq, gt, lt, range

port-num

Description Specify the port number

Type: number

Range: 1-65535

port-num-end

Description Specify the port number

Type: number

Range: 2-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

source-port-list

Specification	Value
Type	*list*
Block object keys	

port-attribute

Description 'eq': Match only packets on a given source port; 'gt': Match only packets with a greater port number; 'lt': Match only packets with a lower port number; 'range': match only packets in the range of port numbers;

Type: string

Supported Values: eq, gt, lt, range

port-num

Description Specify the port number

Type: number

Range: 1-65535

port-num-end

Description Specify the port number

Type: number

Range: 2-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-type-list

Specification	Value
Type	*list*
Block object keys	

icmp-type-attribute

Description 'eq': Match only packets on a given ICMP Type; 'gt': Match only packets with a greater ICMP Type; 'lt': Match only packets with a lower ICMP Type; 'range': match only packets in the range of ICMP Types;

Type: string

Supported Values: eq, gt, lt, range

type

Description Specify the ICMP Type

Type: number

Range: 0-255

type-end

Description Specify the ICMP Type

Type: number

Range: 1-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fragmentation-option-list

Specification	Value
Type	*list*
Block object keys	

frag-attribute

Description 'is-fragment': Is fragmented packet; 'first-fragment': Is the first fragment packet; 'last-fragment': Is the last fragment; 'dont-fragment': Is DF bit set;

Type: string

Supported Values: is-fragment, first-fragment, last-fragment, dont-fragment

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

packet-length-list

Specification	Value
Type	*list*
Block object keys	

length

Description Specify the Packet Length

Type: number

Range: 1-65535

length-end

Description Specify the Packet Length

Type: number

Range: 2-65535

packet-length-attribute

Description 'eq': Match only packets on a given Packet Length; 'gt': Match only packets with a greater Packet Length; 'lt': Match only packets with a lower Packet Length; 'range': match only packets in the range of Packet Lengths;

Type: string

Supported Values: eq, gt, lt, range

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

protocol-list

Specification	Value
Type	*list*
Block object keys	

proto-attribute

Description 'eq': Match only packets on a given protocol; 'gt': Match only packets with a greater protocol number; 'lt': Match only packets with a lower protocol number; 'range': match only packets in the range of protocol numbers;

Type: string

Supported Values: eq, gt, lt, range

proto-num

Description Specify the protocol number(6 for TCP and 17 for UDP)

Type: number

Range: 0-255

proto-num-end

Description Specify the protocol number

Type: number

Range: 1-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

icmp-code-list

Specification	Value
Type	*list*
Block object keys	

code

Description Specify the ICMP Code

Type: number

Range: 0-255

code-end

Description Specify the ICMP Code

Type: number

Range: 1-255

icmp-code-attribute

Description 'eq': Match only packets on a given ICMP Code; 'gt': Match only packets with a greater ICMP Code; 'lt': Match only packets with a lower ICMP Code; 'range': match only packets in the range of ICMP Codes;

Type: string

Supported Values: eq, gt, lt, range

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

operational-mode

Specification	Value
Type	*object*

mode

Description 'enabled': Enable the flowspec and send the prefix to BGP; 'disabled': Disable the flowspec and remove the prefix from BGP;

Type: string

Supported Values: enabled, disabled

Default: disabled

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

filtering-action

Specification	Value
Type	*object*

copy-ip-host

Description Copy bit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

copy-ip-host-nlri

Description Copy bit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

copy-ipv6-host

Description Copy bit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

copy-ipv6-host-nlri

Description Copy bit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dscp-val

Description Set DSCP value

Type: number

Range: 1-63

ecomm-custom-hex

Description Custom Extended Community in Hex

Type: string

Maximum Length: 48 characters

Maximum Length: 2 characters

ip-host

Description IPv4 host address

Type: string

Format: ipv4-address

ip-host-nlri

Description IPv4 host address

Type: string

Format: ipv4-address

ip-host-rt

Description Type 0x8108 - Route Target IPv4

Type: string

Format: ipv4-address

ipv6-host

Description IPv6 host address

Type: string

Format: ipv6-address

ipv6-host-nlri

Description IPv6 host address

Type: string

Format: ipv6-address

next-hop-nlri-type

Description 'ip': Type 0x0800 - IPv4 Address; 'ipv6': Type 0x0800 - IPv6 Address;

Type: string

Supported Values: ip, ipv6

next-hop-type

Description 'ip': Type 0x0800 - IPv4 Address; 'ipv6': Type 0x0800 - IPv6 Address;

Type: string

Supported Values: ip, ipv6

redirect

Description 'next-hop-nlri': Type 0x0800 - IP encoded in MP_REACH_NLRI Next-hop network; 'next-hop': Type 0x0800 - Extended community Next-hop (Per v2 dated Feb 2015); 'vrf-route-target': Type 0x8008 - Redirect to VRF Route Target;

Type: string

Supported Values: next-hop-nlri, next-hop, vrf-route-target

sample-log

Description Enable traffic sampling and logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

terminal-action

Description Evaluation stops after this rule if not set

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

traffic-class

Description Set IPv6 Traffic Class value

Type: number

Range: 1-128

traffic-marking

Description 'dscp': IPv4 DSCP; 'ipv6-traffic-class': IPv6 Traffic Class;

Type: string

Supported Values: dscp, ipv6-traffic-class

traffic-rate

Description Type 0x8006 - Apply rate (in Bytes per second) for this class of traffic

Type: number

Range: 0-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value-ip-host

Description 2-byte decimal value(local-administrator)

Type: number

Range: 1-65535

vrf-target-ip

Description 'ip': Type 0x8108 - Redirect to route-target IP;

Type: string

Supported Values: ip

Mutual Exclusion: vrf-target-ip and vrf-target-string are mutually exclusive

vrf-target-string

Description Type 0x8008(ASN-2:Index), 0x8208(ASN-4:Index) - Route Target AS

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: vrf-target-string and vrf-target-ip are mutually exclusive

2.52.2 flowspec destination-port

Configure Destination Port for a Flowspec

destination-port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-attribute, port-num, port-num-end*
Collection Name	*destination-port-list*
Collection URI	/axapi/v3/flowspec/{name}/destination-port
Element Name	destination-port
Element URI	/axapi/v3/flowspec/{name}/destination-port/{port-attribute}+{port-num}+{port-num-end}
Element Attributes	destination-port_attributes
Partition Visibility	shared
Schema	`destination-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/flowspec/{name}/destination-port

destination-port attributes

Create List

POST

/axapi/v3/flowspec/{name}/destination-port

destination-port attributes

Get Object

GET

/axapi/v3/flowspec/{name}/destination-port/{port-attribute}+{port-num}+{port-num-end}

destination-port attributes

Get List

GET

/axapi/v3/flowspec/{name}/destination-port

destination-port-list

Modify Object

POST

/axapi/v3/flowspec/{name}/destination-port/{port-attribute}+{port-num}+{port-num-end}

destination-port attributes

Replace Object

PUT

/axapi/v3/flowspec/{name}/destination-port/{port-attribute}+{port-num}+{port-num-end}

destination-port attributes

Replace List

PUT

/axapi/v3/flowspec/{name}/destination-port

destination-port-list

Delete Object

DELETE

/axapi/v3/flowspec/{name}/destination-port/{port-attribute}+{port-num}+{port-num-end}

destination-port attributes

destination-port-list

destination-port-list is **JSON List** of *destination-port attributes*

destination-port-list : [

{ *destination-port attributes* },

{ *destination-port attributes* },

...

]

destination-port attributes

port-attribute

Description 'eq': Match only packets on a given destination port; 'gt': Match only packets with a greater port number; 'lt': Match only packets with a lower port number; 'range': match only packets in the range of port numbers;

Type: string

Supported Values: eq, gt, lt, range

port-num

Description Specify the port number

Type: number

Range: 1-65535

port-num-end

Description Specify the port number

Type: number

Range: 2-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.52.3 flowspec dscp

Configure DSCP for a Flowspec

dscp Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*dscp-attribute, dscp-val, dscp-val-end*
Collection Name	*dscp-list*
Collection URI	/axapi/v3/flowspec/{name}/dscp
Element Name	dscp
Element URI	/axapi/v3/flowspec/{name}/dscp/{dscp-attribute}+{dscp-val}+{dscp-val-end}
Element Attributes	dscp_attributes
Partition Visibility	shared
Schema	`dscp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/flowspec/{name}/dscp

dscp attributes

Create List

POST

/axapi/v3/flowspec/{name}/dscp

dscp attributes

Get Object

GET

/axapi/v3/flowspec/{name}/dscp/{dscp-attribute}+{dscp-val}+{dscp-val-end}

dscp attributes

Get List

GET

/axapi/v3/flowspec/{name}/dscp

dscp-list

Modify Object

POST

/axapi/v3/flowspec/{name}/dscp/{dscp-attribute}+{dscp-val}+{dscp-val-end}

dscp attributes

Replace Object

PUT

/axapi/v3/flowspec/{name}/dscp/{dscp-attribute}+{dscp-val}+{dscp-val-end}

dscp attributes

Replace List

PUT

/axapi/v3/flowspec/{name}/dscp

dscp-list

Delete Object

DELETE

/axapi/v3/flowspec/{name}/dscp/{dscp-attribute}+{dscp-val}+{dscp-val-end}

dscp attributes

dscp-list

dscp-list is **JSON List** of *dscp attributes*

dscp-list : [

{ *dscp attributes* },

{ *dscp attributes* },

...

]

dscp attributes

dscp-attribute

Description 'eq': Match only packets on a given DSCP; 'gt': Match only packets with a greater DSCP; 'lt': Match only packets with a lower DSCP; 'range': match only packets in the range of DSCPs;

Type: string

Supported Values: eq, gt, lt, range

dscp-val

Description Specify the DSCP value

Type: number

Range: 1-63

dscp-val-end

Description Specify the DSCP value

Type: number

Range: 2-63

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.52.4 flowspec filtering-action

Configure Filtering Actions for a Flowspec

filtering-action Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	filtering-action
Element URI	/axapi/v3/flowspec/{name}/filtering-action
Element Attributes	filtering-action_attributes
Partition Visibility	shared
Schema	`filtering-action schema`

Operations Allowed:

Create Object

POST

/axapi/v3/flowspec/{name}/filtering-action

filtering-action attributes

```
POST /axapi/v3/flowspec/a/filtering-action
Payload:
{
    "filtering-action": {
        "terminal-action": 1
    }
}
```

Get Object

GET

/axapi/v3/flowspec/{name}/filtering-action

filtering-action attributes

```
GET /axapi/v3/flowspec/a/filtering-action
Reponse:
{
    "filtering-action": {
        "terminal-action": 1,
        "sample-log": 0,
        "uuid": "49a1df9e-08fb-11f0-8ff3-bb094934892a",
        "a10-url": "/axapi/v3/flowspec/a/filtering-action"
    }
}
```

Modify Object

POST

/axapi/v3/flowspec/{name}/filtering-action

filtering-action attributes

Replace Object

PUT

/axapi/v3/flowspec/{name}/filtering-action

filtering-action attributes

```
PUT /axapi/v3/flowspec/a/filtering-action
Payload:
{
    "filtering-action": {
        "terminal-action": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/flowspec/{name}/filtering-action

filtering-action attributes

```
DELETE /axapi/v3/flowspec/a/filtering-action
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

filtering-action attributes

copy-ip-host

Description Copy bit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

copy-ip-host-nlri

Description Copy bit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

copy-ipv6-host

Description Copy bit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

copy-ipv6-host-nlri

Description Copy bit

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dscp-val

Description Set DSCP value

Type: number

Range: 1-63

ecomm-custom-hex

Description Custom Extended Community in Hex

Type: string

Maximum Length: 48 characters

Maximum Length: 2 characters

ip-host

Description IPv4 host address

Type: string

Format: ipv4-address

ip-host-nlri

Description IPv4 host address

Type: string

Format: ipv4-address

ip-host-rt

Description Type 0x8108 - Route Target IPv4

Type: string

Format: ipv4-address

ipv6-host

Description IPv6 host address

Type: string

Format: ipv6-address

ipv6-host-nlri

Description IPv6 host address

Type: string

Format: ipv6-address

next-hop-nlri-type

Description 'ip': Type 0x0800 - IPv4 Address; 'ipv6': Type 0x0800 - IPv6 Address;

Type: string

Supported Values: ip, ipv6

next-hop-type

Description 'ip': Type 0x0800 - IPv4 Address; 'ipv6': Type 0x0800 - IPv6 Address;

Type: string

Supported Values: ip, ipv6

redirect

Description 'next-hop-nlri': Type 0x0800 - IP encoded in MP_REACH_NLRI Next-hop network; 'next-hop': Type 0x0800 - Extended community Next-hop (Per v2 dated Feb 2015); 'vrf-route-target': Type 0x8008 - Redirect to VRF Route Target;

Type: string

Supported Values: next-hop-nlri, next-hop, vrf-route-target

sample-log

Description Enable traffic sampling and logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

terminal-action

Description Evaluation stops after this rule if not set

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

traffic-class

Description Set IPv6 Traffic Class value

Type: number

Range: 1-128

traffic-marking

Description 'dscp': IPv4 DSCP; 'ipv6-traffic-class': IPv6 Traffic Class;

Type: string

Supported Values: dscp, ipv6-traffic-class

traffic-rate

Description Type 0x8006 - Apply rate (in Bytes per second) for this class of traffic

Type: number

Range: 0-4294967295

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

value-ip-host

Description 2-byte decimal value(local-administrator)

Type: number

Range: 1-65535

vrf-target-ip

Description 'ip': Type 0x8108 - Redirect to route-target IP;

Type: string

Supported Values: ip

Mutual Exclusion: vrf-target-ip and vrf-target-string are mutually exclusive

vrf-target-string

Description Type 0x8008(ASN-2:Index), 0x8208(ASN-4:Index) - Route Target AS

Type: string

Maximum Length: 31 characters

Maximum Length: 1 characters

Mutual Exclusion: vrf-target-string and vrf-target-ip are mutually exclusive

2.52.5 flowspec fragmentation-option

Configure Fragmentation option for a Flowspec

fragmentation-option Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*frag-attribute*
Collection Name	*fragmentation-option-list*
Collection URI	/axapi/v3/flowspec/{name}/fragmentation-option
Element Name	fragmentation-option
Element URI	/axapi/v3/flowspec/{name}/fragmentation-option/{frag-attribute}
Element Attributes	fragmentation-option_attributes
Partition Visibility	shared
Schema	`fragmentation-option schema`

Operations Allowed:

Create Object

POST

/axapi/v3/flowspec/{name}/fragmentation-option

fragmentation-option attributes

Create List

POST

/axapi/v3/flowspec/{name}/fragmentation-option

fragmentation-option attributes

Get Object

GET

/axapi/v3/flowspec/{name}/fragmentation-option/{frag-attribute}

fragmentation-option attributes

Get List

GET

/axapi/v3/flowspec/{name}/fragmentation-option

fragmentation-option-list

Modify Object

POST

/axapi/v3/flowspec/{name}/fragmentation-option/{frag-attribute}

fragmentation-option attributes

Replace Object

PUT

/axapi/v3/flowspec/{name}/fragmentation-option/{frag-attribute}

fragmentation-option attributes

Replace List

PUT

/axapi/v3/flowspec/{name}/fragmentation-option

fragmentation-option-list

Delete Object

DELETE

/axapi/v3/flowspec/{name}/fragmentation-option/{frag-attribute}

fragmentation-option attributes

fragmentation-option-list

fragmentation-option-list is **JSON List** of *fragmentation-option attributes*

fragmentation-option-list : [

{ *fragmentation-option attributes* },

{ *fragmentation-option attributes* },

...

]

fragmentation-option attributes

frag-attribute

Description 'is-fragment': Is fragmented packet; 'first-fragment': Is the first fragment packet; 'last-fragment': Is the last fragment; 'dont-fragment': Is DF bit set;

Type: string

Supported Values: is-fragment, first-fragment, last-fragment, dont-fragment

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.52.6 flowspec icmp-code

Configure ICMP Code for a Flowspec

icmp-code Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*icmp-code-attribute, code, code-end*
Collection Name	*icmp-code-list*
Collection URI	/axapi/v3/flowspec/{name}/icmp-code
Element Name	icmp-code
Element URI	/axapi/v3/flowspec/{name}/icmp-code/{icmp-code-attribute}+{code}+{code-end}
Element Attributes	icmp-code_attributes
Partition Visibility	shared
Schema	`icmp-code schema`

Operations Allowed:

Create Object

POST

/axapi/v3/flowspec/{name}/icmp-code

icmp-code attributes

Create List

POST

/axapi/v3/flowspec/{name}/icmp-code

icmp-code attributes

Get Object

GET

/axapi/v3/flowspec/{name}/icmp-code/{icmp-code-attribute}+{code}+{code-end}

icmp-code attributes

Get List

GET

/axapi/v3/flowspec/{name}/icmp-code

icmp-code-list

Modify Object

POST

/axapi/v3/flowspec/{name}/icmp-code/{icmp-code-attribute}+{code}+{code-end}

icmp-code attributes

Replace Object

PUT

/axapi/v3/flowspec/{name}/icmp-code/{icmp-code-attribute}+{code}+{code-end}

icmp-code attributes

Replace List

PUT

/axapi/v3/flowspec/{name}/icmp-code

icmp-code-list

Delete Object

DELETE

/axapi/v3/flowspec/{name}/icmp-code/{icmp-code-attribute}+{code}+{code-end}

icmp-code attributes

icmp-code-list

icmp-code-list is **JSON List** of *icmp-code attributes*

icmp-code-list : [

{ *icmp-code attributes* },

{ *icmp-code attributes* },

...

]

icmp-code attributes

code

Description Specify the ICMP Code

Type: number

Range: 0-255

code-end

Description Specify the ICMP Code

Type: number

Range: 1-255

icmp-code-attribute

Description 'eq': Match only packets on a given ICMP Code; 'gt': Match only packets with a greater ICMP Code; 'lt': Match only packets with a lower ICMP Code; 'range': match only packets in the range of ICMP Codes;

Type: string

Supported Values: eq, gt, lt, range

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.52.7 flowspec icmp-type

Configure ICMP Type for a Flowspec

icmp-type Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*icmp-type-attribute, type, type-end*
Collection Name	*icmp-type-list*
Collection URI	/axapi/v3/flowspec/{name}/icmp-type
Element Name	icmp-type
Element URI	/axapi/v3/flowspec/{name}/icmp-type/{icmp-type-attribute}+{type}+{type-end}
Element Attributes	icmp-type_attributes
Partition Visibility	shared
Schema	`icmp-type schema`

Operations Allowed:

Create Object

POST

/axapi/v3/flowspec/{name}/icmp-type

icmp-type attributes

Create List

POST

/axapi/v3/flowspec/{name}/icmp-type

icmp-type attributes

Get Object

GET

/axapi/v3/flowspec/{name}/icmp-type/{icmp-type-attribute}+{type}+{type-end}

icmp-type attributes

Get List

GET

/axapi/v3/flowspec/{name}/icmp-type

icmp-type-list

Modify Object

POST

/axapi/v3/flowspec/{name}/icmp-type/{icmp-type-attribute}+{type}+{type-end}

icmp-type attributes

Replace Object

PUT

/axapi/v3/flowspec/{name}/icmp-type/{icmp-type-attribute}+{type}+{type-end}

icmp-type attributes

Replace List

PUT

/axapi/v3/flowspec/{name}/icmp-type

icmp-type-list

Delete Object

DELETE

/axapi/v3/flowspec/{name}/icmp-type/{icmp-type-attribute}+{type}+{type-end}

icmp-type attributes

icmp-type-list

icmp-type-list is **JSON List** of *icmp-type attributes*

icmp-type-list : [

{ *icmp-type attributes* },

{ *icmp-type attributes* },

...

]

icmp-type attributes

icmp-type-attribute

Description 'eq': Match only packets on a given ICMP Type; 'gt': Match only packets with a greater ICMP Type; 'lt': Match only packets with a lower ICMP Type; 'range': match only packets in the range of ICMP Types;

Type: string

Supported Values: eq, gt, lt, range

type

Description Specify the ICMP Type

Type: number

Range: 0-255

type-end

Description Specify the ICMP Type

Type: number

Range: 1-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.52.8 flowspec operational-mode

Set the operational mode for the Flowspec

operational-mode Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	operational-mode
Element URI	/axapi/v3/flowspec/{name}/operational-mode
Element Attributes	operational-mode_attributes
Partition Visibility	shared
Schema	`operational-mode schema`

Operations Allowed:

Create Object

POST

/axapi/v3/flowspec/{name}/operational-mode

operational-mode attributes

```
POST /axapi/v3/flowspec/a/operational-mode
Payload:
{
    "operational-mode": {
        "mode": "enabled"
    }
}
```

Get Object

GET

/axapi/v3/flowspec/{name}/operational-mode

operational-mode attributes

```
GET /axapi/v3/flowspec/a/operational-mode
Reponse:
{
    "operational-mode": {
        "mode": "enabled",
        "uuid": "d5c8b894-08fb-11f0-8ff3-bb094934892a",
        "a10-url": "/axapi/v3/flowspec/a/operational-mode"
    }
}
```

Modify Object

POST

/axapi/v3/flowspec/{name}/operational-mode

operational-mode attributes

Replace Object

PUT

/axapi/v3/flowspec/{name}/operational-mode

operational-mode attributes

Delete Object

DELETE

/axapi/v3/flowspec/{name}/operational-mode

operational-mode attributes

operational-mode attributes

mode

Description 'enabled': Enable the flowspec and send the prefix to BGP; 'disabled': Disable the flowspec and remove the prefix from BGP;

Type: string

Supported Values: enabled, disabled

Default: disabled

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.52.9 flowspec packet-length

Configure Packet Length for a Flowspec

packet-length Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*packet-length-attribute, length, length-end*
Collection Name	*packet-length-list*
Collection URI	/axapi/v3/flowspec/{name}/packet-length
Element Name	packet-length
Element URI	/axapi/v3/flowspec/{name}/packet-length/{packet-length-attribute}+{length}+{length-end}
Element Attributes	packet-length_attributes
Partition Visibility	shared
Schema	`packet-length schema`

Operations Allowed:

Create Object

POST

/axapi/v3/flowspec/{name}/packet-length

packet-length attributes

Create List

POST

/axapi/v3/flowspec/{name}/packet-length

packet-length attributes

Get Object

GET

/axapi/v3/flowspec/{name}/packet-length/{packet-length-attribute}+{length}+{length-end}

packet-length attributes

Get List

GET

/axapi/v3/flowspec/{name}/packet-length

packet-length-list

Modify Object

POST

/axapi/v3/flowspec/{name}/packet-length/{packet-length-attribute}+{length}+{length-end}

packet-length attributes

Replace Object

PUT

/axapi/v3/flowspec/{name}/packet-length/{packet-length-attribute}+{length}+{length-end}

packet-length attributes

Replace List

PUT

/axapi/v3/flowspec/{name}/packet-length

packet-length-list

Delete Object

DELETE

/axapi/v3/flowspec/{name}/packet-length/{packet-length-attribute}+{length}+{length-end}

packet-length attributes

packet-length-list

packet-length-list is **JSON List** of *packet-length attributes*

```
packet-length-list : [
        { packet-length attributes },
        { packet-length attributes },
        ...
    ]
```

packet-length attributes

length

Description Specify the Packet Length

Type: number

Range: 1-65535

length-end

Description Specify the Packet Length

Type: number

Range: 2-65535

packet-length-attribute

Description 'eq': Match only packets on a given Packet Length; 'gt': Match only packets with a greater Packet Length; 'lt': Match only packets with a lower Packet Length; 'range': match only packets in the range of Packet Lengths;

Type: string

Supported Values: eq, gt, lt, range

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.52.10 flowspec port

Configure Port for a Flowspec

port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-attribute, port-num, port-num-end*
Collection Name	*port-list*
Collection URI	/axapi/v3/flowspec/{name}/port
Element Name	port
Element URI	/axapi/v3/flowspec/{name}/port/{port-attribute}+{port-num}+{port-num-end}
Element Attributes	port_attributes
Partition Visibility	shared
Schema	`port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/flowspec/{name}/port

port attributes

Create List

POST

/axapi/v3/flowspec/{name}/port

port attributes

Get Object

GET

/axapi/v3/flowspec/{name}/port/{port-attribute}+{port-num}+{port-num-end}

port attributes

Get List

GET

/axapi/v3/flowspec/{name}/port

port-list

Modify Object

POST

/axapi/v3/flowspec/{name}/port/{port-attribute}+{port-num}+{port-num-end}

port attributes

Replace Object

PUT

/axapi/v3/flowspec/{name}/port/{port-attribute}+{port-num}+{port-num-end}

port attributes

Replace List

PUT

/axapi/v3/flowspec/{name}/port

port-list

Delete Object

DELETE

/axapi/v3/flowspec/{name}/port/{port-attribute}+{port-num}+{port-num-end}

port attributes

port-list

port-list is **JSON List** of *port attributes*

port-list : [

{ *port attributes* },

{ *port attributes* },

...

]

port attributes

port-attribute

Description 'eq': Match only packets on a given port; 'gt': Match only packets with a greater port number; 'lt': Match only packets with a lower port number; 'range': match only packets in the range of port numbers;

Type: string

Supported Values: eq, gt, lt, range

port-num

Description Specify the port number

Type: number

Range: 1-65535

port-num-end

Description Specify the port number

Type: number

Range: 2-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.52.11 flowspec protocol

Configure Protocol for a Flowspec

protocol Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*proto-attribute, proto-num, proto-num-end*
Collection Name	*protocol-list*
Collection URI	/axapi/v3/flowspec/{name}/protocol
Element Name	protocol
Element URI	/axapi/v3/flowspec/{name}/protocol/{proto-attribute}+{proto-num}+{proto-num-end}
Element Attributes	protocol_attributes
Partition Visibility	shared
Schema	`protocol schema`

Operations Allowed:

Create Object

POST

/axapi/v3/flowspec/{name}/protocol

protocol attributes

Create List

POST

/axapi/v3/flowspec/{name}/protocol

protocol attributes

Get Object

GET

/axapi/v3/flowspec/{name}/protocol/{proto-attribute}+{proto-num}+{proto-num-end}

protocol attributes

Get List

GET

/axapi/v3/flowspec/{name}/protocol

protocol-list

Modify Object

POST

/axapi/v3/flowspec/{name}/protocol/{proto-attribute}+{proto-num}+{proto-num-end}

protocol attributes

Replace Object

PUT

/axapi/v3/flowspec/{name}/protocol/{proto-attribute}+{proto-num}+{proto-num-end}

protocol attributes

Replace List

PUT

/axapi/v3/flowspec/{name}/protocol

protocol-list

Delete Object

DELETE

/axapi/v3/flowspec/{name}/protocol/{proto-attribute}+{proto-num}+{proto-num-end}

protocol attributes

protocol-list

protocol-list is **JSON List** of *protocol attributes*

```
protocol-list : [
        { protocol attributes },
        { protocol attributes },
        ...
    ]
```

protocol attributes

proto-attribute

Description 'eq': Match only packets on a given protocol; 'gt': Match only packets with a greater protocol number; 'lt': Match only packets with a lower protocol number; 'range': match only packets in the range of protocol numbers;

Type: string

Supported Values: eq, gt, lt, range

proto-num

Description Specify the protocol number(6 for TCP and 17 for UDP)

Type: number

Range: 0-255

proto-num-end

Description Specify the protocol number

Type: number

Range: 1-255

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.52.12 flowspec source-port

Configure Source Port for a Flowspec

source-port Specification

Parameter	Value
Type	*Collection*
Object Key(s)	*port-attribute, port-num, port-num-end*
Collection Name	*source-port-list*
Collection URI	/axapi/v3/flowspec/{name}/source-port
Element Name	source-port
Element URI	/axapi/v3/flowspec/{name}/source-port/{port-attribute}+{port-num}+{port-num-end}
Element Attributes	source-port_attributes
Partition Visibility	shared
Schema	`source-port schema`

Operations Allowed:

Create Object

POST

/axapi/v3/flowspec/{name}/source-port

source-port attributes

Create List

POST

/axapi/v3/flowspec/{name}/source-port

source-port attributes

Get Object

GET

/axapi/v3/flowspec/{name}/source-port/{port-attribute}+{port-num}+{port-num-end}

source-port attributes

Get List

GET

/axapi/v3/flowspec/{name}/source-port

source-port-list

Modify Object

POST

/axapi/v3/flowspec/{name}/source-port/{port-attribute}+{port-num}+{port-num-end}

source-port attributes

Replace Object

PUT

/axapi/v3/flowspec/{name}/source-port/{port-attribute}+{port-num}+{port-num-end}

source-port attributes

Replace List

PUT

/axapi/v3/flowspec/{name}/source-port

source-port-list

Delete Object

DELETE

/axapi/v3/flowspec/{name}/source-port/{port-attribute}+{port-num}+{port-num-end}

source-port attributes

source-port-list

source-port-list is **JSON List** of *source-port attributes*

source-port-list : [

{ *source-port attributes* },

{ *source-port attributes* },

...

]

source-port attributes

port-attribute

Description 'eq': Match only packets on a given source port; 'gt': Match only packets with a greater port number; 'lt': Match only packets with a lower port number; 'range': match only packets in the range of port numbers;

Type: string

Supported Values: eq, gt, lt, range

port-num

Description Specify the port number

Type: number

Range: 1-65535

port-num-end

Description Specify the port number

Type: number

Range: 2-65535

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.53 fw

Objects:

2.53.1 fw

Firewall

fw Specification

Parameter	Value
Type	*Intermediate Resource*
Element Name	fw
Element URI	/axapi/v3/fw
Element Attributes	fw_attributes
Partition Visibility	shared
Schema	`fw schema`

Operations Allowed:

Get Object

GET

/axapi/v3/fw

fw_attributes

fw attributes

active-rule-set

Description: active-rule-set is a **JSON Block**. Please see below for *active-rule-set*

Type: Object

Reference Object: */axapi/v3/fw/active-rule-set*

alg

Description: alg is a **JSON Block**. Please see below for *alg*

Type: Object

Reference Object: */axapi/v3/fw/alg*

app

Description: app is a **JSON Block**. Please see below for *app*

Type: Object

Reference Object: */axapi/v3/fw/app*

apply-changes

Description: apply-changes is a **JSON Block**. Please see below for *apply-changes*

Type: Object

Reference Object: */axapi/v3/fw/apply-changes*

clear-session-filter

Description: clear-session-filter is a **JSON Block**. Please see below for *clear-session-filter*

Type: Object

Reference Object: */axapi/v3/fw/clear-session-filter*

client

Description: client is a **JSON Block**. Please see below for *client*

Type: Object

Reference Object: */axapi/v3/fw/client*

ddos-protection

Description: ddos-protection is a **JSON Block**. Please see below for *ddos-protection*

Type: Object

Reference Object: */axapi/v3/fw/ddos-protection*

fast-forwarding

Description: fast-forwarding is a **JSON Block**. Please see below for *fast-forwarding*

Type: Object

Reference Object: */axapi/v3/fw/fast-forwarding*

full-cone-session

Description: full-cone-session is a **JSON Block**. Please see below for *full-cone-session*

Type: Object

Reference Object: */axapi/v3/fw/full-cone-session*

global

Description: global is a **JSON Block**. Please see below for *global*

Type: Object

Reference Object: */axapi/v3/fw/global*

gtp

Description: gtp is a **JSON Block**. Please see below for *gtp*

Type: Object

Reference Object: */axapi/v3/fw/gtp*

hairpin

Description: hairpin is a **JSON Block**. Please see below for *hairpin*

Type: Object

Reference Object: */axapi/v3/fw/hairpin*

helper-sessions

Description: helper-sessions is a **JSON Block**. Please see below for *helper-sessions*

Type: Object

Reference Object: */axapi/v3/fw/helper-sessions*

hw-accelerate

Description: hw-accelerate is a **JSON Block**. Please see below for *hw-accelerate*

Type: Object

Reference Object: */axapi/v3/fw/hw-accelerate*

limit-entry

Description: limit-entry is a **JSON Block**. Please see below for *limit-entry*

Type: Object

Reference Object: */axapi/v3/fw/limit-entry*

local-log

Description: local-log is a **JSON Block**. Please see below for *local-log*

Type: Object

Reference Object: */axapi/v3/fw/local-log*

logging

Description: logging is a **JSON Block**. Please see below for *logging*

Type: Object

Reference Object: */axapi/v3/fw/logging*

match

Description: match is a **JSON Block**. Please see below for *match*

Type: Object

Reference Object: */axapi/v3/fw/match*

per-instance

Description: per-instance is a **JSON Block**. Please see below for *per-instance*

Type: Object

Reference Object: */axapi/v3/fw/per-instance*

prioritize-control-traffic

Description: prioritize-control-traffic is a **JSON Block**. Please see below for *prioritize-control-traffic*

Type: Object

Reference Object: */axapi/v3/fw/prioritize-control-traffic*

radius

Description: radius is a **JSON Block**. Please see below for *radius*

Type: Object

Reference Object: */axapi/v3/fw/radius*

rate-limit

Description: rate-limit is a **JSON Block**. Please see below for *rate-limit*

Type: Object

Reference Object: */axapi/v3/fw/rate-limit*

resource-usage

Description: resource-usage is a **JSON Block**. Please see below for *resource-usage*

Type: Object

Reference Object: */axapi/v3/fw/resource-usage*

server-list

Type: List

Reference Object: */axapi/v3/fw/server/{name}*

service-group-list

Type: List

Reference Object: */axapi/v3/fw/service-group/{name}*

session-aging-list

Type: List

Reference Object: */axapi/v3/fw/session-aging/{name}*

status

Description: status is a **JSON Block**. Please see below for *status*

Type: Object

Reference Object: */axapi/v3/fw/status*

system-status

Description: system-status is a **JSON Block**. Please see below for *system-status*

Type: Object

Reference Object: */axapi/v3/fw/system-status*

tap-monitor

Description: tap-monitor is a **JSON Block**. Please see below for *tap-monitor*

Type: Object

Reference Object: */axapi/v3/fw/tap-monitor*

tcp

Description: tcp is a **JSON Block**. Please see below for *tcp*

Type: Object

Reference Object: */axapi/v3/fw/tcp*

tcp-rst-close-immediate

Description: tcp-rst-close-immediate is a **JSON Block**. Please see below for *tcp-rst-close-immediate*

Type: Object

Reference Object: */axapi/v3/fw/tcp-rst-close-immediate*

tcp-window-check

Description: tcp-window-check is a **JSON Block**. Please see below for *tcp-window-check*

Type: Object

Reference Object: */axapi/v3/fw/tcp-window-check*

template

Description: template is a **JSON Block**. Please see below for *template*

Type: Object

Reference Object: */axapi/v3/fw/template*

top-k-rules

Description: top-k-rules is a **JSON Block**. Please see below for *top-k-rules*

Type: Object

Reference Object: */axapi/v3/fw/top-k-rules*

urpf

Description: urpf is a **JSON Block**. Please see below for *urpf*

Type: Object

Reference Object: */axapi/v3/fw/urpf*

vrid

Description: vrid is a **JSON Block**. Please see below for *vrid*

Type: Object

Reference Object: */axapi/v3/fw/vrid*

apply-changes

Specification	Value
Type	*object*

forced

Description Force recompile rule-set

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

alg

Specification	Value
Type	*object*

dns

Description: dns is a **JSON Block**. Please see below for *alg_dns*

Type: Object

Reference Object: */axapi/v3/fw/alg/dns*

esp

Description: esp is a **JSON Block**. Please see below for *alg_esp*

Type: Object

Reference Object: */axapi/v3/fw/alg/esp*

ftp

Description: ftp is a **JSON Block**. Please see below for *alg_ftp*

Type: Object

Reference Object: */axapi/v3/fw/alg/ftp*

icmp

Description: icmp is a **JSON Block**. Please see below for *alg_icmp*

Type: Object

Reference Object: */axapi/v3/fw/alg/icmp*

pptp

Description: pptp is a **JSON Block**. Please see below for *alg_pptp*

Type: Object

Reference Object: */axapi/v3/fw/alg/pptp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *alg_rtsp*

Type: Object

Reference Object: */axapi/v3/fw/alg/rtsp*

sctp

Description: sctp is a **JSON Block**. Please see below for *alg_sctp*

Type: Object

Reference Object: */axapi/v3/fw/alg/sctp*

sip

Description: sip is a **JSON Block**. Please see below for *alg_sip*

Type: Object

Reference Object: */axapi/v3/fw/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *alg_tftp*

Type: Object

Reference Object: */axapi/v3/fw/alg/tftp*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_ftp

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable FTP ALG default port 21;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_ftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'client-port-request': PORT Requests From Client; 'client-eprt-request': EPRT Requests From Client; 'server-pasv-reply': PASV Replies From Server; 'server-epsv-reply': EPSV Replies From Server; 'port-retransmits': PORT Retransmits; 'pasv-retransmits': PASV Retransmits; 'smp-app-type-mismatch': SMP App Type Mismatch; 'retransmit-sanity-check-failure': Retransmit Sanity Check Failure; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'port-helper-created': PORT Helper Created; 'pasv-helper-created': PASV

Helper Created; 'port-helper-acquire-in-del-q': PORT Helper Acquire In Del Queue; 'port-helper-acquire-already-used': PORT Helper Acquire Already Used; 'pasv-helper-acquire-in-del-q': PASV Helper Acquire In Del Queue; 'pasv-helper-acquire-already-used': PASV Helper Acquire Already Used; 'port-helper-freed-used': PORT Helper Freed Used; 'port-helper-freed-unused': PORT Helper Freed Unused; 'pasv-helper-freed-used': PASV Helper Freed Used; 'pasv-helper-freed-unused': PASV Helper Freed Unused;

Type: string

Supported Values: all, client-port-request, client-eprt-request, server-pasv-reply, server-epsv-reply, port-retransmits, pasv-retransmits, smp-app-type-mismatch, retransmit-sanity-check-failure, smp-conn-alloc-failure, port-helper-created, pasv-helper-created, port-helper-acquire-in-del-q, port-helper-acquire-already-used, pasv-helper-acquire-in-del-q, pasv-helper-acquire-already-used, port-helper-freed-used, port-helper-freed-unused, pasv-helper-freed-used, pasv-helper-freed-unused

alg_sip

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable SIP ALG default port 5060;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_sip_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'stat-request': Request Received; 'stat-response': Response Received; 'method-register': Method REGISTER; 'method-invite': Method INVITE; 'method-ack': Method ACK; 'method-cancel': Method CANCEL; 'method-bye': Method BYE; 'method-options': Method OPTIONS; 'method-prack': Method PRACK; 'method-subscribe': Method SUBSCRIBE; 'method-notify': Method NOTIFY; 'method-publish': Method PUBLISH;

'method-info': Method INFO; 'method-refer': Method REFER; 'method-message': Method MESSAGE; 'method-update': Method UPDATE; 'method-unknown': Method Unknown; 'parse-error': Message Parse Error; 'keep-alive': Keep Alive; 'contact-error': Contact Process Error; 'sdp-error': SDP Process Error; 'rtp-port-no-op': RTP Port No Op; 'rtp-rtcp-port-success': RTP RTCP Port Success; 'rtp-port-failure': RTP Port Failure; 'rtcp-port-failure': RTCP Port Failure; 'contact-port-no-op': Contact Port No Op; 'contact-port-success': Contact Port Success; 'contact-port-failure': Contact Port Failure; 'contact-new': Contact Alloc; 'contact-alloc-failure': Contact Alloc Failure; 'contact-eim': Contact EIM; 'contact-eim-set': Contact EIM Set; 'rtp-new': RTP Alloc; 'rtp-alloc-failure': RTP Alloc Failure; 'rtp-eim': RTP EIM; 'helper-found': SMP Helper Conn Found; 'helper-created': SMP Helper Conn Created; 'helper-deleted': SMP Helper Conn Already Deleted; 'helper-freed': SMP Helper Conn Freed; 'helper-failure': SMP Helper Failure;

Type: string

Supported Values: all, stat-request, stat-response, method-register, method-invite, method-ack, method-cancel, method-bye, method-options, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error, keep-alive, contact-error, sdp-error, rtp-port-no-op, rtp-rtcp-port-success, rtp-port-failure, rtcp-port-failure, contact-port-no-op, contact-port-success, contact-port-failure, contact-new, contact-alloc-failure, contact-eim, contact-eim-set, rtp-new, rtp-alloc-failure, rtp-eim, helper-found, helper-created, helper-deleted, helper-freed, helper-failure

alg_esp

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable ESP ALG default port 500;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_esp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'helper-created': ESP Helper Sessions Created; 'helper-freed': ESP Helper Sessions Freed; 'helper-freed-used': ESP Helper Sessions freed used; 'helper-freed-unused': ESP Helper Sessions freed unused; 'helper-already-used': ESP Helper Session already used; 'helper-in-rml': ESP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

alg_pptp

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable PPTP ALG default port 1723;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_pptp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'gre-session-created': GRE Session Created; 'gre-session-freed': GRE Session Freed; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-ext-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-app-type-mismatch': SMP App Type Mismatch; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-sessions-created': SMP Session Created; 'smp-sessions-freed': SMP Session Freed; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, gre-session-created, gre-session-freed, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-ext-ext-alloc-failure, smp-app-type-mismatch, smp-client-call-id-mismatch, smp-sessions-created, smp-sessions-freed, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

alg_rtsp

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable RTSP ALG default port 554;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_rtsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'transport-inserted': Transport Created; 'transport-freed': Transport Freed; 'transport-alloc-failure': Transport Alloc Failure; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'ext-creation-failure': Extension Creation Failure; 'transport-add-to-ext': Transport Added to Extension; 'transport-removed-from-ext': Transport Removed from Extension; 'transport-too-many': Too Many Transports for Control Conn; 'transport-already-in-ext': Transport Already in Extension; 'transport-exists': Transport Already Exists; 'transport-link-ext-failure-control': Transport Link to Extension Failure Control; 'transport-link-ext-data': Transport Link to Extension Data; 'transport-link-ext-failure-data': Transport Link to Extension Failure Data; 'transport-inserted-shadow': Transport Inserted Shadow; 'transport-creation-race': Transport Create Race; 'transport-alloc-failure-shadow': Transport Alloc Failure Shadow; 'transport-put-in-del-q': Transport Put in Delete Queue; 'transport-freed-shadow': Transport Freed Shadow; 'transport-acquired-from-control': Transport Acquired Control; 'transport-found-from-prev-control': Transport Found From Prev Control; 'transport-acquire-failure-from-control': Transport Acquire Failure Control; 'transport-released-from-control': Transport Released Control; 'transport-double-release-from-control': Transport Double Release Control; 'transport-acquired-from-data': Transport Acquired Data; 'transport-acquire-failure-from-data': Transport Acquire Failure Data; 'transport-released-from-data': Transport Released Data; 'transport-double-release-from-data': Transport Double Release Data; 'transport-retry-lookup-on-data-free': Transport Retry Lookup Data; 'transport-not-found-on-data-free': Transport Not Found Data; 'data-session-created-shadow': Data Session Created Shadow; 'data-session-freed-shadow': Data Session Freed Shadow; 'ha-control-ext-creation-failure': HA Control Extension Creation Failure; 'ha-control-session-created': HA Control Session Created; 'ha-data-session-created': HA Data Session Created;

Type: string

Supported Values: all, transport-inserted, transport-freed, transport-alloc-failure, data-session-created, data-session-freed, ext-creation-failure, transport-add-to-ext, transport-removed-from-ext, transport-too-many, transport-already-in-ext, transport-exists, transport-link-ext-failure-control, transport-link-ext-data, transport-link-ext-failure-data, transport-inserted-shadow, transport-creation-race, transport-alloc-failure-shadow, transport-put-in-del-q, transport-freed-shadow, transport-acquired-from-control, transport-found-from-prev-control, transport-acquire-failure-from-control, transport-released-from-control, transport-double-release-from-control, transport-acquired-from-data, transport-acquire-failure-from-data, transport-released-from-data, transport-double-release-from-data, transport-retry-lookup-on-data-free, transport-not-found-on-data-free, data-session-created-shadow, data-session-freed-shadow, ha-control-ext-creation-failure, ha-control-session-created, ha-data-session-created

alg_dns

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable DNS ALG default port 53;

Type: string

Supported Values: default-port-disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_tftp

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable TFTP ALG default port 69;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_tftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions Created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

alg_icmp

Specification	Value
Type	*object*

disable

Description 'disable': Disable ICMP ALG which allows ICMP errors to pass the firewall;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

alg_sctp

Specification	Value
Type	*object*

action

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

app_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'dummy': Entry for a10countergen;

Type: string

Supported Values: all, dummy

global

Specification	Value
Type	*object*

alg-processing

Description 'honor-rule-set': Honors firewall rule-sets (Default); 'override-rule-set': Override firewall rule-sets;

Type: string

Supported Values: honor-rule-set, override-rule-set

Default: honor-rule-set

allow-non-syn-session-create

Description Allow TCP non-syn packets to trigger session creation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-app-list

Type: List

disable-application-metrics

Description Disable exporting application protocol/category statistics to Harmony Controller

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-ip-fw-sessions

Description disable create sessions for non TCP/UDP/ICMP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-undetermined-rule-logs

Description disable logs with undetermined rules

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dsr-mode-support

Description 'ipv4': support dsr for ipv4 traffic; 'ipv6': support dsr for ipv6 traffic; 'all': support dsr for both ipv4 and ipv6;

Type: string

Supported Values: ipv4, ipv6, all

extended-matching

Description 'disable': Disable extended matching;

Type: string

Supported Values: disable

inbound-refresh

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

inbound-refresh-full-cone

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

listen-on-port-timeout

Description STUN timeout (default: 2 minutes)

Type: number

Range: 0-60

Default: 2

natip-ddos-protection

Description 'enable': Enable; 'disable': Disable;

Type: string

Supported Values: enable, disable

Default: enable

permit-default-action

Description 'forward': Forward; 'next-service-mode': Service to be applied chosen based on configuration;

Type: string

Supported Values: forward, next-service-mode

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

global_disable-app-list

Specification	Value
Type	*list*
Block object keys	

disable-application-category

Description 'aaa': Protocol/application used for AAA (Authentification, Authorization and Accounting) purposes.; 'adult-content': Adult content protocol/application.; 'advertising': Advertising networks and applications.; 'application-enforcing-tls': Application known to enforce HSTS and thus use of TLS.; 'analytics-and-statistics': User analytics and statistics protocol/application.; 'anonymizers-and-proxies': Traffic-anonymization protocol/application.; 'audio-chat': Protocol/application used for Audio Chat.; 'basic': Covers all protocols required for basic classification, including most networking protocols as well as standard protocols like HTTP.; 'blog': Blogging platform protocol/application.; 'cdn': Protocol/application used for Content-Delivery Networks.; 'certification-authority': Certification Authority for SSL/TLS certificate.; 'chat': Protocol/application used for Text Chat.; 'classified-ads': Protocol/application used for Classified Advertisements.; 'cloud-based-services': SaaS and/or PaaS cloud based services.; 'crowdfunding': Service for funding a project or venture by raising small amounts of money from a large number of people, typically via the Internet.; 'cryptocurrency': Services for mining cryptocurrencies, for example a Crypto Web Browser (an application that mines crypto currency in the background while its user browses the web).; 'database': Database-specific protocols.; 'disposable-email': Service offering Disposable Email Accounts (DEA). DEA is a technique to share temporary email address between many users.; 'ebook-reader': Services for e-book readers, i.e. connected devices that display electronic books (typically using e-ink displays to reduce glare and eye strain).; 'education': Protocols offering education services and online courses.; 'email': Native email protocol.; 'enterprise': Protocol/application used in an enterprise network.; 'file-management': Protocol/application designed specifically for file management and exchange. This can include bona fide network protocols (like SMB) as well as web/cloud services (like Dropbox).; 'file-transfer': Protocol that offers file transferring as a secondary feature. This typically includes IM, Web-Mail, and other protocols that allow file transfers in addition to their principal function.; 'forum': Online forum protocol/application.; 'gaming': Protocol/application used by games.; 'healthcare': Protocols offering medical services, i.e protocols used in medical environment.; 'instant-messaging-and-multimedia-conferencing': Protocol/application used for Instant Messaging or Multi-Conferencing.; 'internet-of-things': Internet Of Things protocol/application.; 'map-service': Digital Maps service (web site and their related API).; 'mobile': Mobile-specific protocol/application.; 'multimedia-streaming': Protocol/application used for multimedia streaming.; 'networking': Protocol used for (inter) networking purpose.; 'news-portal': Protocol/application used for News Portals.; 'payment-service': Application offering online services for accepting electronic payments by a variety of payment methods (credit card, bank-based payments such as direct debit, bank transfer, etc).; 'peer-to-peer': Protocol/application used for Peer-to-peer purposes.; 'remote-access': Protocol/application used for remote access.; 'scada': SCADA (Supervisory control and data acquisition) protocols, all generations.; 'social-networks': Social networking application.; 'software-update': Auto-update protocol.; 'speedtest': Speedtest application allowing to access quality of Internet connection (upload, download, latency, etc).; 'standards-based': Protocol issued from standardized bodies such as IETF, ITU, IEEE, ETSI, OIF.; 'transportation': Transportation services, for example smartphone applications that allow users to hail a taxi.; 'video-chat': Protocol/application used for Video Chat.; 'voip': Application used for Voice-Over-IP.; 'vpn-tunnels': Protocol/application used for VPN or tunneling purposes.; 'web': Application based on HTTP/HTTPS.; 'web-e-commerce': Protocol/application used for E-commerce websites.; 'web-search-engines': Pro-

tocol/application used for Web search portals.; 'web-websites': Protocol/application used for Company Websites.; 'webmails': Web-based e-mail application.; 'web-ext-adult': Web Extension Adult; 'web-ext-auctions': Web Extension Auctions; 'web-ext-blogs': Web Extension Blogs; 'web-ext-business-and-economy': Web Extension Business and Economy; 'web-ext-cdns': Web Extension CDNs; 'web-ext-collaboration': Web Extension Collaboration; 'web-ext-computer-and-internet-info': Web Extension Computer and Internet Info; 'web-ext-computer-and-internet-security': Web Extension Computer and Internet Security; 'web-ext-dating': Web Extension Dating; 'web-ext-educational-institutions': Web Extension Educational Institutions; 'web-ext-entertainment-and-arts': Web Extension Entertainment and Arts; 'web-ext-fashion-and-beauty': Web Extension Fashion and Beauty; 'web-ext-file-share': Web Extension File Share; 'web-ext-financial-services': Web Extension Financial Services; 'web-ext-gambling': Web Extension Gambling; 'web-ext-games': Web Extension Games; 'web-ext-government': Web Extension Government; 'web-ext-health-and-medicine': Web Extension Health and Medicine; 'web-ext-individual-stock-advice-and-tools': Web Extension Individual Stock Advice and Tools; 'web-ext-internet-portals': Web Extension Internet Portals; 'web-ext-job-search': Web Extension Job Search; 'web-ext-local-information': Web Extension Local Information; 'web-ext-malware': Web Extension Malware; 'web-ext-motor-vehicles': Web Extension Motor Vehicles; 'web-ext-music': Web Extension Music; 'web-ext-news': Web Extension News; 'web-ext-p2p': Web Extension P2P; 'web-ext-parked-sites': Web Extension Parked Sites; 'web-ext-proxy-avoid-and-anonymizers': Web Extension Proxy Avoid and Anonymizers; 'web-ext-real-estate': Web Extension Real Estate; 'web-ext-reference-and-research': Web Extension Reference and Research; 'web-ext-search-engines': Web Extension Search Engines; 'web-ext-shopping': Web Extension Shopping; 'web-ext-social-network': Web Extension Social Network; 'web-ext-society': Web Extension Society; 'web-ext-software': Web Extension Software; 'web-ext-sports': Web Extension Sports; 'web-ext-streaming-media': Web Extension Streaming Media; 'web-ext-training-and-tools': Web Extension Training and Tools; 'web-ext-translation': Web Extension Translation; 'web-ext-travel': Web Extension Travel; 'web-ext-web-advertisements': Web Extension Web Advertisements; 'web-ext-web-based-email': Web Extension Web based Email; 'web-ext-web-hosting': Web Extension Web Hosting; 'web-ext-web-service': Web Extension Web Service;

Type: string

Supported Values: aaa, adult-content, advertising, application-enforcing-tls, analytics-and-statistics, anonymizers-and-proxies, audio-chat, basic, blog, cdn, certification-authority, chat, classified-ads, cloud-based-services, crowdfunding, cryptocurrency, database, disposable-email, ebook-reader, education, email, enterprise, file-management, file-transfer, forum, gaming, healthcare, instant-messaging-and-multimedia-conferencing, internet-of-things, map-service, mobile, multimedia-streaming, networking, news-portal, payment-service, peer-to-peer, remote-access, scada, social-networks, software-update, speedtest, standards-based, transportation, video-chat, voip, vpn-tunnels, web, web-e-commerce, web-search-engines, web-websites, webmails, web-ext-adult, web-ext-auctions, web-ext-blogs, web-ext-business-and-economy, web-ext-cdns, web-ext-collaboration, web-ext-computer-and-internet-info, web-ext-computer-and-internet-security, web-ext-dating, web-ext-educational-institutions, web-ext-entertainment-and-arts, web-ext-fashion-and-beauty, web-ext-file-share, web-ext-financial-services, web-ext-gambling, web-ext-games, web-ext-government, web-ext-health-and-medicine, web-ext-individual-stock-advice-and-tools, web-ext-internet-portals, web-ext-job-search, web-ext-local-information, web-ext-malware, web-ext-motor-vehicles, web-ext-music, web-ext-news, web-ext-p2p, web-ext-parked-sites, web-ext-proxy-avoid-and-anonymizers, web-ext-real-estate, web-ext-reference-and-research, web-ext-search-engines, web-ext-shopping, web-ext-social-network, web-ext-society, web-ext-software, web-ext-sports, web-ext-streaming-media, web-ext-training-and-tools, web-ext-translation, web-ext-travel, web-ext-web-advertisements, web-ext-web-based-email, web-ext-web-hosting, web-ext-web-service

disable-application-protocol

Description Disable specific application protocol

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

global_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'tcp_fullcone_created': TCP Full-cone Created; 'tcp_fullcone_freed': TCP Full-cone Freed; 'udp_fullcone_created': UDP Full-cone Created; 'udp_fullcone_freed': UDP Full-cone Freed; 'fullcone_creation_failure': Full-Cone Creation Failure; 'data_session_created': Data Session Created; 'data_session_created_local': Data Session Created Local; 'dyn_blist_sess_sp': Dynamic Blacklist Session (Slowpath); 'data_session_freed': Data Session Freed; 'data_session_freed_local': Data Session Freed Local; 'dyn_blist_sess_created': Dynamic Blacklist Session Created; 'dyn_blist_sess_freed': Dynamic Blacklist Freed; 'dyn_blist_pkt_drop': Dynamic Blacklist - Packet Drop; 'dyn_blist_pkt_rate_low': Dynamic Blacklist - Pkt Rate Low; 'dyn_blist_pkt_rate_high': Dynamic Blacklist - Pkt Rate High; 'dyn_blist_version_mismatch': Dynamic Blacklist - Version Mismatch; 'dyn_blist_no_active_policy': Dynamic Blacklist - No Active Policy; 'fullcone_in_del_q': Full-cone session found in delete queue; 'fullcone_retry_lookup': Full-cone session retry look-up; 'fullcone_not_found': Full-cone session not found; 'fullcone_overflow_eim': Full-cone Session EIM Overflow; 'fullcone_overflow_eif': Full-cone Session EIF Overflow; 'udp_fullcone_created_shadow': Total UDP Full-cone sessions created; 'tcp_fullcone_created_shadow': Total TCP Full-cone sessions created; 'udp_fullcone_freed_shadow': Total UDP Full-cone sessions freed; 'tcp_fullcone_freed_shadow': Total TCP Full-cone sessions freed; 'fullcone_created': Total Full-cone sessions created; 'fullcone_freed': Total Full-cone sessions freed; 'fullcone_ext_too_many': Fullcone Extension Too Many; 'fullcone_ext_mem_allocated': Fullcone Extension Memory Allocated; 'fullcone_ext_mem_alloc_failure': Fullcone Extension Memory Allocate Failure; 'fullcone_ext_mem_alloc_init_faulure': Fullcone Extension Initialization Failure; 'fullcone_ext_mem_freed': Fullcone Extension Memory Freed; 'fullcone_ext_added': Fullcone Extension Added; 'ha_fullcone_failure': HA Full-cone Session Failure; 'data_session_created_shadow': Shadow Data Sessions Created; 'data_session_created_shadow_local': Shadow Data Sessions Created Local; 'data_session_freed_shadow': Shadow Data Sessions Freed; 'data_session_freed_shadow_local': Shadow Data Sessions Freed Local; 'active_fullcone_session': Total Active Full-cone sessions; 'limit-entry-failure': Limit Entry Creation Failure; 'limit-entry-allocated': Limit Entry Allocated; 'limit-entry-mem-freed': Limit Entry Freed; 'limit-entry-created': Limit Entry Created; 'limit-entry-found': Limit Entry Found; 'limit-entry-not-in-bucket': Limit Entry Not in Bucket; 'limit-entry-marked-deleted': Limit Entry Marked Deleted; 'undetermined-rule-counter': Undetermined rule detected; 'non_syn_pkt_fwd_allowed': Non-SYN pkt forward allowed; 'invalid-lid-drop': Invalid Lid Drop; 'src-session-limit-exceeded': Concurrent Session Limit Exceeded; 'uplink-pps-limit-exceeded': Uplink PPS Limit Exceeded; 'downlink-pps-limit-exceeded': Downlink PPS

Limit Exceeded; 'total-pps-limit-exceeded': Total PPS Limit Exceeded; 'uplink-throughput-limit-exceeded': Uplink Throughput Limit Exceeded; 'downlink-throughput-limit-exceeded': Downlink Throughput Limit Exceeded; 'total-throughput-limit-exceeded': Total Throughput Limit Exceeded; 'cps-limit-exceeded': Connections Per Second Limit Exceeded; 'limit-exceeded': Per Second Limit Exceeded (Deprecated); 'limit-entry-per-cpu-mem-allocated': Limit Entry Memory Allocated (Deprecated); 'limit-entry-per-cpu-mem-allocation-failed': Limit Entry Memory Allocation Failed (Deprecated); 'limit-entry-per-cpu-mem-freed': Limit Entry Memory Freed (Deprecated); 'alg_default_port_disable': alg_default_port_disable; 'no_fwd_route': No Forward Route; 'no_rev_route': No Reverse Route; 'no_fwd_l2_dst': No Forward Mac Entry; 'no_rev_l2_dst': No Reverse Mac Entry; 'l2_dst_in_out_same': L2 route to same port as received; 'l2_vlan_changed': L2 forwarding vlan changed after session create; 'urpf_pkt_drop': URPF check packet drop; 'fwd_ingress_packets_tcp': Forward Ingress Packets TCP; 'fwd_egress_packets_tcp': Forward Egress Packets TCP; 'rev_ingress_packets_tcp': Reverse Ingress Packets TCP; 'rev_egress_packets_tcp': Reverse Egress Packets TCP; 'fwd_ingress_bytes_tcp': Forward Ingress Bytes TCP; 'fwd_egress_bytes_tcp': Forward Egress Bytes TCP; 'rev_ingress_bytes_tcp': Reverse Ingress Bytes TCP; 'rev_egress_bytes_tcp': Reverse Egress Bytes TCP; 'fwd_ingress_packets_udp': Forward Ingress Packets UDP; 'fwd_egress_packets_udp': Forward Egress Packets UDP; 'rev_ingress_packets_udp': Reverse Ingress Packets UDP; 'rev_egress_packets_udp': Reverse Egress Packets UDP; 'fwd_ingress_bytes_udp': Forward Ingress Bytes UDP; 'fwd_egress_bytes_udp': Forward Egress Bytes UDP; 'rev_ingress_bytes_udp': Reverse Ingress Bytes UDP; 'rev_egress_bytes_udp': Reverse Egress Bytes UDP; 'fwd_ingress_packets_icmp': Forward Ingress Packets ICMP; 'fwd_egress_packets_icmp': Forward Egress Packets ICMP; 'rev_ingress_packets_icmp': Reverse Ingress Packets ICMP; 'rev_egress_packets_icmp': Reverse Egress Packets ICMP; 'fwd_ingress_bytes_icmp': Forward Ingress Bytes ICMP; 'fwd_egress_bytes_icmp': Forward Egress Bytes ICMP; 'rev_ingress_bytes_icmp': Reverse Ingress Bytes ICMP; 'rev_egress_bytes_icmp': Reverse Egress Bytes ICMP; 'fwd_ingress_packets_others': Forward Ingress Packets OTHERS; 'fwd_egress_packets_others': Forward Egress Packets OTHERS; 'rev_ingress_packets_others': Reverse Ingress Packets OTHERS; 'rev_egress_packets_others': Reverse Egress Packets OTHERS; 'fwd_ingress_bytes_others': Forward Ingress Bytes OTHERS; 'fwd_egress_bytes_others': Forward Egress Bytes OTHERS; 'rev_ingress_bytes_others': Reverse Ingress Bytes OTHERS; 'rev_egress_bytes_others': Reverse Egress Bytes OTHERS; 'fwd_ingress_pkt_size_range1': Forward Ingress Packet size between 0 and 200; 'fwd_ingress_pkt_size_range2': Forward Ingress Packet size between 201 and 800; 'fwd_ingress_pkt_size_range3': Forward Ingress Packet size between 801 and 1550; 'fwd_ingress_pkt_size_range4': Forward Ingress Packet size between 1551 and 9000; 'fwd_egress_pkt_size_range1': Forward Egress Packet size between 0 and 200; 'fwd_egress_pkt_size_range2': Forward Egress Packet size between 201 and 800; 'fwd_egress_pkt_size_range3': Forward Egress Packet size between 801 and 1550; 'fwd_egress_pkt_size_range4': Forward Egress Packet size between 1551 and 9000; 'rev_ingress_pkt_size_range1': Reverse Ingress Packet size between 0 and 200; 'rev_ingress_pkt_size_range2': Reverse Ingress Packet size between 201 and 800; 'rev_ingress_pkt_size_range3': Reverse Ingress Packet size between 801 and 1550; 'rev_ingress_pkt_size_range4': Reverse Ingress Packet size between 1551 and 9000; 'rev_egress_pkt_size_range1': Reverse Egress Packet size between 0 and 200; 'rev_egress_pkt_size_range2': Reverse Egress Packet size between 201 and 800; 'rev_egress_pkt_size_range3': Reverse Egress Packet size between 801 and 1550; 'rev_egress_pkt_size_range4': Reverse Egress Packet size between 1551 and 9000;

Type: string

Supported Values: all, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_creation_failure, data_session_created, data_session_created_local, dyn_blist_sess_sp, data_session_freed,

data_session_freed_local, dyn_blist_sess_created, dyn_blist_sess_freed, dyn_blist_pkt_drop, dyn_blist_pkt_rate_low, dyn_blist_pkt_rate_high, dyn_blist_version_mismatch, dyn_blist_no_active_policy, fw-def-pkt-dir, full-cone_in_del_q, fullcone_retry_lookup, fullcone_not_found, fullcone_overflow_eim, fullcone_overflow_eif, udp_fullcone_created_shadow, tcp_fullcone_created_shadow, udp_fullcone_freed_shadow, tcp_fullcone_freed_shadow, fullcone_created, fullcone_freed, fullcone_ext_too_many, fullcone_ext_mem_allocated, fullcone_ext_mem_alloc_failure, fullcone_ext_mem_alloc_init_faulure, fullcone_ext_mem_freed, fullcone_ext_added, ha_fullcone_failure, data_session_created_shadow, data_session_created_shadow_local, data_session_freed_shadow, data_session_freed_shadow_local, active_fullcone_session, limit-entry-failure, limit-entry-allocated, limit-entry-mem-freed, limit-entry-created, limit-entry-found, limit-entry-not-in-bucket, limit-entry-marked-deleted, undetermined-rule-counter, non_syn_pkt_fwd_allowed, invalid-lid-drop, src-session-limit-exceeded, uplink-pps-limit-exceeded, downlink-pps-limit-exceeded, total-pps-limit-exceeded, uplink-throughput-limit-exceeded, downlink-throughput-limit-exceeded, total-throughput-limit-exceeded, cps-limit-exceeded, limit-exceeded, limit-entry-per-cpu-mem-allocated, limit-entry-per-cpu-mem-allocation-failed, limit-entry-per-cpu-mem-freed, alg_default_port_disable, no_fwd_route, no_rev_route, no_fwd_l2_dst, no_rev_l2_dst, l2_dst_in_out_same, l2_vlan_changed, urpf_pkt_drop, fw-inside-single-v4-entries-added, fw-inside-subnet-v4-entries-added, fw-inside-single-v6-entries-added, fw-inside-subnet-v6-entries-added, fw-inside-single-v4-entries-deleted, fw-inside-subnet-v4-entries-deleted, fw-inside-single-v6-entries-deleted, fw-inside-subnet-v6-entries-deleted, fw-inside-subnet-entry-creation-error, fw-inside-subnet-entry-del-error, fw-inside-cl-bound, fw-inside-cl-unbound, fw-inside-populate-v4-entry, fw-inside-populate-v6-entry, fw-inside-update-v4-entry, fw-inside-update-v6-entry, fw-inside-remove-v4-entry, fw-inside-remove-v6-entry, fw-inside-cl-reset-idx, fw-inside-cl-load, fw-inside-entries-not-added-no-dmz-intf, fw-inside-entrie-add-cl-bound-first, fw-inside-entries-removed-dmz-untaged-first, fw-inside-cl-entry-update, no_fw_class_list_match, fw-inside-cl-type-mismatch, fw-inside-cl-id-mismatch, limit-entry-already-added-to-del-queue, fwd_ingress_packets_tcp, fwd_egress_packets_tcp, rev_ingress_packets_tcp, rev_egress_packets_tcp, fwd_ingress_bytes_tcp, fwd_egress_bytes_tcp, rev_ingress_bytes_tcp, rev_egress_bytes_tcp, fwd_ingress_packets_udp, fwd_egress_packets_udp, rev_ingress_packets_udp, rev_egress_packets_udp, fwd_ingress_bytes_udp, fwd_egress_bytes_udp, rev_ingress_bytes_udp, rev_egress_bytes_udp, fwd_ingress_packets_icmp, fwd_egress_packets_icmp, rev_ingress_packets_icmp, rev_egress_packets_icmp, fwd_ingress_bytes_icmp, fwd_egress_bytes_icmp, rev_ingress_bytes_icmp, rev_egress_bytes_icmp, fwd_ingress_packets_others, fwd_egress_packets_others

counters2

Description 'rev_ingress_packets_others': Reverse Ingress Packets OTHERS; 'rev_egress_packets_others': Reverse Egress Packets OTHERS; 'fwd_ingress_bytes_others': Forward Ingress Bytes OTHERS; 'fwd_egress_bytes_others': Forward Egress Bytes OTHERS; 'rev_ingress_bytes_others': Reverse Ingress Bytes OTHERS; 'rev_egress_bytes_others': Reverse Egress Bytes OTHERS; 'fwd_ingress_pkt_size_range1': Forward Ingress Packet size between 0 and 200; 'fwd_ingress_pkt_size_range2': Forward Ingress Packet size between 201 and 800; 'fwd_ingress_pkt_size_range3': Forward Ingress Packet size between 801 and 1550; 'fwd_ingress_pkt_size_range4': Forward Ingress Packet size between 1551 and 9000; 'fwd_egress_pkt_size_range1': Forward Egress Packet size between 0 and 200; 'fwd_egress_pkt_size_range2': Forward Egress Packet size between 201 and 800; 'fwd_egress_pkt_size_range3': Forward Egress Packet size between 801 and 1550; 'fwd_egress_pkt_size_range4': Forward Egress Packet size between 1551 and 9000; 'rev_ingress_pkt_size_range1': Reverse Ingress Packet size between 0 and 200; 'rev_ingress_pkt_size_range2': Reverse Ingress Packet size between 201 and 800; 'rev_ingress_pkt_size_range3': Reverse Ingress Packet size between

801 and 1550; 'rev_ingress_pkt_size_range4': Reverse Ingress Packet size between 1551 and 9000; 'rev_egress_pkt_size_range1': Reverse Egress Packet size between 0 and 200; 'rev_egress_pkt_size_range2': Reverse Egress Packet size between 201 and 800; 'rev_egress_pkt_size_range3': Reverse Egress Packet size between 801 and 1550; 'rev_egress_pkt_size_range4': Reverse Egress Packet size between 1551 and 9000;

Type: string

Supported Values: rev_ingress_packets_others, rev_egress_packets_others, fwd_ingress_bytes_others, fwd_egress_bytes_others, rev_ingress_bytes_others, rev_egress_bytes_others, fwd_ingress_pkt_size_range1, fwd_ingress_pkt_size_range2, fwd_ingress_pkt_size_range3, fwd_ingress_pkt_size_range4, fwd_egress_pkt_size_range1, fwd_egress_pkt_size_range2, fwd_egress_pkt_size_range3, fwd_egress_pkt_size_range4, rev_ingress_pkt_size_range1, rev_ingress_pkt_size_range2, rev_ingress_pkt_size_range3, rev_ingress_pkt_size_range4, rev_egress_pkt_size_range1, rev_egress_pkt_size_range2, rev_egress_pkt_size_range3, rev_egress_pkt_size_range4

tcp-rst-close-immediate

Specification	Value
Type	*object*

status

Description 'enable': Enable TCP RST close immediate (default); 'disable': Disable TCP RST close immediate;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp

Specification	Value
Type	*object*

mss-clamp

Description: mss-clamp is a **JSON Block**. Please see below for *tcp_mss-clamp*

Type: Object

Reference Object: */axapi/v3/fw/tcp/mss-clamp*

reset-on-error

Description: reset-on-error is a **JSON Block**. Please see below for *tcp_reset-on-error*

Type: Object

Reference Object: */axapi/v3/fw/tcp/reset-on-error*

syn-cookie

Description: syn-cookie is a **JSON Block**. Please see below for *tcp_syn-cookie*

Type: Object

Reference Object: */axapi/v3/fw/tcp/syn-cookie*

tcp_mss-clamp

Specification	Value
Type	*object*

min

Description Specify the min value allowed for the TCP MSS (Specify the min value allowed for the TCP MSS (default: ((576 - 60 - 60))))

Type: number

Range: 0-1460

Default: 456

mss-clamp-type

Description 'fixed': Specify a fixed max value for the TCP MSS; 'subtract': Specify the value to subtract from the TCP MSS;

Type: string

Supported Values: fixed, subtract

mss-subtract

Description Specify the value to subtract from the TCP MSS (default: not configured)

Type: number

Range: 0-1460

mss-value

Description The max value allowed for the TCP MSS (default: not configured)}

Type: number

Range: 0-1460

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp_reset-on-error

Specification	Value
Type	*object*

enable

Description Enable send TCP reset on error

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

outbound

Description 'enable': Enable send TCP reset on error;

Type: string

Supported Values: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp_syn-cookie

Specification	Value
Type	*object*

sampling-enable

Type: List

syn-cookie-enable

Description Enable Firewall Syn-Cookie Protection

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

syn-cookie-on-threshold

Description on-threshold for Syn-cookie (Decimal number)

Type: number

Range: 1-1000000

syn-cookie-on-timeout

Description on-timeout for Syn-cookie (Timeout in seconds, default is 120 seconds (2 minutes))

Type: number

Range: 1-300000

Default: 120

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp_syn-cookie_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'syn_ack_sent': SYN cookie SYN ACK sent; 'verification_passed': SYN cookie verification passed; 'verification_failed': SYN cookie verification failed; 'conn_setup_failed': SYN cookie connection setup failed;

Type: string

Supported Values: all, syn_ack_sent, verification_passed, verification_failed, conn_setup_failed

hw-accelerate

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

hw-accelerate_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'entry-create': HW Entries Created; 'entry-create-failure': HW Entry Creation Failed; 'entry-create-fail-server-down': HW Entry Creation Failed - server down; 'entry-create-fail-max-entry': HW Entry Creation Failed - max entries exceeded; 'entry-free': HW Entries Freed; 'entry-free-opp-entry': HW Entries Freed - opposite tuple entry aged-out; 'entry-free-no-hw-prog': HW Entry Freed - no HW prog; 'entry-free-no-conn': HW Entry Freed - no matched conn; 'entry-free-no-sw-entry': HW Entry Freed - no software entry; 'entry-counter': HW Entries Count; 'entry-age-out': HW Entries Aged Out; 'entry-age-out-idle': HW Entries Aged Out - idle timeout; 'entry-age-out-tcp-fin': HW Entries Aged Out - TCP FIN; 'entry-age-out-tcp-rst': HW Entries Aged Out - TCP RST; 'entry-age-out-invalid-dst': HW Entries Aged Out - invalid dst; 'entry-force-hw-invalidate': HW Entries Force HW Invalidate; 'entry-invalidate-server-down': HW Entries Invalidate due to server down; 'tcam-create': TCAM Flows Created; 'tcam-free': TCAM Flows Freed; 'tcam-counter': TCAM Flow Count;

Type: string

Supported Values: all, entry-create, entry-create-failure, entry-create-fail-server-down, entry-create-fail-max-entry, entry-free, entry-free-opp-entry, entry-free-no-hw-prog, entry-free-no-conn, entry-free-no-sw-entry, entry-counter, entry-age-out, entry-age-out-idle, entry-age-out-tcp-fin, entry-age-out-tcp-rst, entry-age-out-invalid-dst, entry-force-hw-invalidate, entry-invalidate-server-down, tcam-create, tcam-free, tcam-counter

radius

Specification	Value
Type	*object*

server

Description: server is a **JSON Block**. Please see below for *radius_server*

Type: Object

Reference Object: */axapi/v3/fw/radius/server*

radius_server

Specification	Value
Type	*object*

accounting-interim-update

Description 'ignore': Ignore (default); 'append-entry': Append the AVPs to existing entry; 'replace-entry': Replace the AVPs of existing entry;

Type: string

Supported Values: ignore, append-entry, replace-entry

Default: ignore

accounting-on

Description 'ignore': Ignore (default); 'delete-entries-using-attribute': Delete entries matching attribute in RADIUS Table;

Type: string

Supported Values: ignore, delete-entries-using-attribute

Default: ignore

accounting-start

Description 'ignore': Ignore; 'append-entry': Append the AVPs to existing entry (default); 'replace-entry': Replace the AVPs of existing entry;

Type: string

Supported Values: ignore, append-entry, replace-entry

Default: append-entry

accounting-stop

Description 'ignore': Ignore; 'delete-entry': Delete the entry (default);

Type: string

Supported Values: ignore, delete-entry

Default: delete-entry

attribute

Type: List

attribute-name

Description 'msisdn': Clear using MSISDN; 'imei': Clear using IMEI; 'imsi': Clear using IMSI;

Type: string

Supported Values: msisdn, imei, imsi

Mutual Exclusion: attribute-name and custom-attribute-name are mutually exclusive

custom-attribute-name

Description Clear using customized attribute

Type: string

Maximum Length: 15 characters

Maximum Length: 1 characters

Mutual Exclusion: custom-attribute-name and attribute-name are mutually exclusive

encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

listen-port

Description Configure the listen port of RADIUS server (Port number)

Type: number

Range: 1024-65535

remote

Description: remote is a **JSON Block**. Please see below for *radius_server_remote*

Type: Object

sampling-enable

Type: List

secret

Description Configure shared secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

secret-string

Description The RADIUS secret

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Join a VRRP-A failover group

Type: number

Range: 1-31

radius_server_remote

Specification	Value
Type	*object*

ip-list

Type: List

radius_server_remote_ip-list

Specification	Value
Type	*list*
Block object keys	

ip-list-encrypted

Description Do NOT use this option manually. (This is an A10 reserved keyword.) (The ENCRYPTED secret string)

ip-list-name

Description IP-list name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

ip-list-secret

Description Configure shared secret

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list-secret-string

Description The RADIUS secret

Type: string

Format: password

Maximum Length: 127 characters

Maximum Length: 1 characters

radius_server_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'msisdn-received': MSISDN Received; 'imei-received': IMEI Received; 'imsi-received': IMSI Received; 'custom-received': Custom attribute Received; 'radius-request-received': RADIUS Request Received; 'radius-request-dropped': RADIUS Request Dropped (Malformed Packet); 'request-bad-secret-dropped': RADIUS Request Bad Secret Dropped; 'request-no-key-vap-dropped': RADIUS Request No Key Attribute Dropped; 'request-malformed-dropped': RADIUS Request Malformed Dropped; 'request-ignored': RADIUS Request Table Full Dropped; 'radius-table-full': RADIUS Request Dropped (Table Full); 'secret-not-configured-dropped': RADIUS Secret Not Configured Dropped; 'ha-standby-dropped': HA Standby Dropped; 'ipv6-prefix-length-mismatch': Framed IPV6 Prefix Length Mismatch; 'invalid-key': Radius Request has Invalid Key Field; 'smp-mem-allocated': RADIUS SMP Memory Allocated; 'smp-mem-alloc-failed': RADIUS SMP Memory Allocation Failed; 'smp-mem-freed': RADIUS SMP Memory Freed; 'smp-created': RADIUS SMP Created; 'smp-in-rml': RADIUS SMP in RML; 'smp-deleted': RADIUS SMP Deleted; 'mem-allocated': RADIUS Memory Allocated; 'mem-alloc-failed': RADIUS Memory Allocation Failed; 'mem-freed': RADIUS Memory Freed; 'ha-sync-create-sent': HA Record Sync Create Sent; 'ha-sync-delete-sent': HA Record Sync Delete Sent; 'ha-sync-create-recv': HA Record Sync Create Received; 'ha-sync-delete-recv': HA Record Sync Delete Received; 'acct-on-filters-full': RADIUS Acct On Request Ignored(Filters Full); 'acct-on-dup-request': Duplicate RADIUS Acct On Request; 'ip-mismatch-delete': Radius Entry IP Mismatch Delete; 'ip-add-race-drop': Radius Entry IP Add Race Drop; 'ha-sync-no-key-vap-dropped': HA Record Sync No key dropped; 'inter-card-msg-fail-drop': Inter-Card Message Fail Drop; 'radius-packets-redirected': RADIUS packets redirected (SO); 'radius-packets-redirect-fail-dropped': RADIUS packets dropped due to redirect failure (SO); 'radius-packets-process-local': RADIUS packets processed locally without redirection (SO); 'radius-packets-dropped-not-lo': RADIUS packets dropped dest not loopback (SO); 'radius-inter-card-dup-redir': RADIUS packet dropped as redirected by other blade (SO);

Type: string

Supported Values: all, msisdn-received, imei-received, imsi-received, custom-received, radius-request-received, radius-request-dropped, request-bad-secret-dropped, request-no-key-vap-dropped, request-malformed-dropped, request-ignored, radius-table-full, secret-not-configured-dropped, ha-standby-dropped, ipv6-prefix-length-mismatch, invalid-key, smp-mem-allocated, smp-mem-alloc-failed, smp-mem-freed, smp-created, smp-in-rml, smp-deleted, mem-allocated, mem-alloc-failed, mem-freed, ha-sync-create-sent, ha-sync-delete-sent, ha-sync-create-recv, ha-sync-delete-recv, acct-on-filters-full, acct-on-dup-request, ip-mismatch-delete, ip-add-race-drop, ha-sync-no-key-vap-dropped, inter-card-msg-fail-drop, radius-packets-redirected, radius-packets-redirect-fail-dropped, radius-packets-process-local, radius-packets-dropped-not-lo, radius-inter-card-dup-redir

radius_server_attribute

Specification	Value
Type	*list*
Block object keys	

attribute-value

Description 'inside-ipv6-prefix': Framed IPv6 Prefix; 'inside-ip': Inside IP address; 'inside-ipv6': Inside IPv6 address; 'imei': International Mobile Equipment Identity (IMEI); 'imsi': International Mobile Subscriber Identity (IMSI); 'msisdn': Mobile Subscriber Integrated Services Digital Network-Number (MSISDN); 'custom1': Customized attribute 1; 'custom2': Customized attribute 2; 'custom3': Customized attribute 3; 'custom4': Customized attribute 4; 'custom5': Customized attribute 5; 'custom6': Customized attribute 6;

Type: string

Supported Values: inside-ipv6-prefix, inside-ip, inside-ipv6, imei, imsi, msisdn, custom1, custom2, custom3, custom4, custom5, custom6

custom-number

Description RADIUS attribute number

Type: number

Range: 1-255

custom-vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

name

Description Customized attribute name

Type: string

Maximum Length: 15 characters

Maximum Length: 1 characters

number

Description RADIUS attribute number

Type: number

Range: 1-255

prefix-length

Description '32': Prefix length 32; '48': Prefix length 48; '64': Prefix length 64; '80': Prefix length 80; '96': Prefix length 96; '112': Prefix length 112;

Type: string

Supported Values: 32, 48, 64, 80, 96, 112

prefix-number

Description RADIUS attribute number

Type: number

Range: 1-255

prefix-vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

value

Description 'hexadecimal': Type of attribute value is hexadecimal;

Type: string

Supported Values: hexadecimal

vendor

Description RADIUS vendor attribute information (RADIUS vendor ID)

Type: number

Range: 1-65535

clear-session-filter

Specification	Value
Type	*object*

status

Description 'disable': Disable clear L4 session filter for fw (Default: disabled); 'enable': Enable clear L4 session filter for fw;

Type: string

Supported Values: disable, enable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

per-instance

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

prioritize-control-traffic

Specification	Value
Type	*object*

action

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

system-status

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

vrid

Description Vrrp group (VRRP-A vrid)

Type: number

Range: 1-31

limit-entry

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rate-limit

Specification	Value
Type	*object*

sampling-enable

Type: List

summary

Description: summary is a **JSON Block**. Please see below for *rate-limit_summary*

Type: Object

Reference Object: */axapi/v3/fw/rate-limit/summary*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rate-limit_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ratelimit_used_total_mem': Total Memory Used For Rate-limiting (bytes); 'ratelimit_used_spm_mem': Total SPM Memory Used For Rate-limiting Infra in Bytes; 'ratelimit_used_heap_mem': Total Heap Memory Used For Rate-limiting Infra in Bytes; 'ratelimit_entry_alloc_frm_spm_mem': Total Number of Rate-limit Entries created using SPM Memory; 'ratelimit_high_accurate_entry_alloc_fail': Total Number of Failures to Create Highly Accurate Rate-limit Entries Due to Memory Allocation Failures; 'ratelimit_high_perf_entry_alloc_fail': Total Number of Failures to Create High-Perf Rate-limit Entries Due to Memory Allocation Failures; 'ratelimit_high_perf_entry_secondary_alloc_fail': Total Number of Failures to Allocate Additional Memory to Existing High-Perf Rate-limit Entries; 'ratelimit_entry_alloc_fail_rate_too_high': Total Number of Attempts to Configure Too High Rate Limits; 'ratelimit_entry_alloc_fail_metric_count_gt_supported': Total Number of Failures to Create High-Perf Rate-limit Entries Because of Too Many Metrics; 'ratelimit_entry_count_t2_key': Number of Total Rate-limit Entries; 'ratelimit_entry_count_fw_rule_uid': Number of Rate-limit Entries with Scope Aggregate; 'ratelimit_entry_count_ip_addr': Number of Rate-limit Entries with Scope IPv4 Address; 'ratelimit_entry_count_ip6_addr': Number of Rate-limit Entries with Scope IPv6 Address; 'ratelimit_entry_count_session_id': Number of Rate-limit Entries with Scope Session ID; 'ratelimit_entry_count_rule_ipv4_prefix': Number of Rate-limit Entries with Scope IPv4 Prefix; 'ratelimit_entry_count_rule_ipv6_prefix': Number of Rate-limit Entries with Scope IPv6 Prefix; 'ratelimit_entry_count_parent_uid': Number of Parent Rate-limit Entries with Scope Aggregate; 'ratelimit_entry_count_parent_ipv4_prefix': Number of Parent Rate-limit Entries with Scope IPv4 Prefix; 'ratelimit_entry_count_parent_ipv6_prefix': Number of Parent Rate-limit Entries with Scope IPv6 Prefix; 'ratelimit_infra_generic_errors': Current Number of Generic Errors Encountered in Ratelimit Infra; 'ratelimit_entry_count_allocated': Number of Rate-limit Entries Allocated Totally; 'ratelimit_entry_count_freed': Number of Rate-limit Entries Freed Totally; 'ratelimit_entry_count_rule_ip': Number of Rate-limit Entries with Scope IP; 'ratelimit_entry_count_parent_ip': Number of Parent Rate-limit Entries with Scope IP; 'ratelimit_entry_count_radius_usergroup': The total number of rate-limiting entries with the scope RADIUS user group.; 'ratelimit_entry_count_parent_radius_usergroup': The total number of parent rate-limiting entries with the scope RADIUS user group.; 'ratelimit_entry_count_radius_userid': The total number of rate-limiting entries with the scope RADIUS user ID.; 'ratelimit_entry_count_parent_radius_userid': The total number of parent rate-limiting entries with the scope RADIUS user ID.;

Type: string

Supported Values: all, ratelimit_used_total_mem, ratelimit_used_spm_mem, ratelimit_used_heap_mem, ratelimit_entry_alloc_frm_spm_mem, ratelimit_high_accurate_entry_alloc_fail, ratelimit_high_perf_entry_alloc_fail, rate-

limit_high_perf_entry_secondary_alloc_fail, ratelimit_entry_alloc_fail_rate_too_high, ratelimit_entry_alloc_fail_metric_count_gt_supported, ratelimit_entry_count_t2_key, ratelimit_entry_count_fw_rule_uid, ratelimit_entry_count_ip_addr, ratelimit_entry_count_ip6_addr, ratelimit_entry_count_session_id, ratelimit_entry_count_rule_ipv4_prefix, ratelimit_entry_count_rule_ipv6_prefix, ratelimit_entry_count_parent_uid, ratelimit_entry_count_parent_ipv4_prefix, ratelimit_entry_count_parent_ipv6_prefix, ratelimit_infra_generic_errors, ratelimit_entry_count_allocated, ratelimit_entry_count_freed, ratelimit_entry_count_rule_ip, ratelimit_entry_count_parent_ip, ratelimit_entry_count_radius_usergroup, ratelimit_entry_count_parent_radius_usergroup, ratelimit_entry_count_radius_userid, ratelimit_entry_count_parent_radius_userid

rate-limit_summary

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

gtp

Specification	Value
Type	*object*

apn-log-periodicity

Description Periodic Logging Frequency(In Minutes)

Type: number

Range: 1-30

apn-prefix

Description: apn-prefix is a **JSON Block**. Please see below for *gtp_apn-prefix*

Type: Object

Reference Object: */axapi/v3/fw/gtp/apn-prefix*

apn-prefix-list

Description Class List (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

echo-timeout

Description echo message timeout (minutes) (echo-timeout (default 120))

Type: number

Range: 1-261

Default: 120

gtp-value

Description 'enable': Enable GTP Inspection;

Type: string

Supported Values: enable

insertion-mode

Description 'monitor': Enable inline view-only mode; 'skip-state-checks': Enable skip stateful checks mode;

Type: string

Supported Values: monitor, skip-state-checks

ne-v4-log-periodicity

Description Periodic Logging Frequency(In Minutes)

Type: number

Range: 1-30

ne-v6-log-periodicity

Description Periodic Logging Frequency(In Minutes)

Type: number

Range: 1-30

network-element

Description: network-element is a **JSON Block**. Please see below for *gtp_network-element*

Type: Object

Reference Object: */axapi/v3/fw/gtp/network-element*

network-element-list-v4

Description Class List (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

network-element-list-v6

Description Class List (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

path-mgmt-logging

Description 'enable-log': Enable Log for Path Management;

Type: string

Supported Values: enable-log

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

gtp_network-element

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

gtp_apn-prefix

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

gtp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'out-of-session-memory': Out of Tunnel Memory; 'no-fwd-route': No Forward Route; 'no-rev-route': No Reverse Route; 'gtp-smp-created': GTP SMP Created; 'gtp-smp-marked-deleted': GTP SMP Marked Deleted; 'gtp-smp-deleted': GTP SMP Deleted; 'smp-creation-failed': GTP-U SMP Helper Session Creation Failed; 'gtp-smp-path-created': GTP SMP PATH Created; 'gtp-smp-path-freed': GTP SMP PATH MEM freed; 'gtp-smp-path-allocated': GTP SMP PATH MEM allocated; 'gtp-smp-path-creation-failed': GTP SMP PATH creation Failed; 'gtp-smp-path-check-failed': GTP SMP PATH check Failed; 'gtp-smp-check-failed': GTP SMP check Failed; 'gtp-smp-session-count-check-failed': GTP-U session count is not in range of 0-11 in GTP-C SMP; 'gtp-c-ref-count-smp-exceeded': GTP-C session count on C-smp exceeded 2; 'gtp-u-smp-in-rml-with-sess': GTP-U smp is marked RML with U-session; 'gtp-u-pkt-fwd-conn-create': GTP-U pkt fwded while creating conn with gtp toggling; 'gtp-c-pkt-fwd-conn-create': GTP-C pkt fwded while creating conn with gtp toggling; 'gtp-echo-pkt-fwd-conn-create': GTP-ECHO pkt fwded while creating conn with gtp toggling; 'gtp-tunnel-rate-limit-entry-create-success': GTP Tunnel Level Rate Limit Entry Create Success; 'gtp-tunnel-rate-limit-entry-create-failure': GTP Tunnel Level Rate Limit Entry Create Failure; 'gtp-tunnel-rate-limit-entry-deleted': GTP Tunnel Level Rate Limit Entry Deleted; 'gtp-rate-limit-smp-created': GTP Rate Limit SMP Created; 'gtp-rate-limit-smp-freed': GTP Rate Limit SMP Freed; 'gtp-rate-limit-smp-create-failure': GTP Rate Limit SMP Create Failure; 'gtp-rate-limit-t3-ctr-create-failure': GTP Rate Limit Dynamic Counters Create Failure; 'gtp-rate-limit-entry-create-failure': GTP Rate Limit Entry Create Failure; 'gtp-echo-conn-created': GTP Echo Request Conn Created; 'gtp-echo-conn-deleted': GTP Echo Request conn Deleted; 'gtp-node-restart-echo': GTP Node Restoration due to Recovery IE in Echo; 'gtp-c-echo-path-failure': GTP-C Path Failure due to Echo; 'drop-vld-gtp-echo-out-of-state-': GTP Echo Out of State Drop; 'drop-vld-gtp-echo-ie-len-exceed-msg-len': GTP Echo IE Length Exceeds Message Length; 'gtp-create-session-request-retransmit': GTP-C Retransmitted Create Session Request; 'gtp-add-bearer-request-retransmit': GTP-C Retransmitted Add Bearer Request; 'gtp-delete-session-request-retransmit': GTP-C Retransmitted Delete Session Request; 'gtp-handover-request-retransmit': GTP Handover Request Retransmit; 'gtp-del-bearer-request-retransmit': GTP-C Retransmitted Delete Bearer Request; 'gtp-add-bearer-response-retransmit': GTP-C Retransmitted Add Bearer Response; 'gtp-create-session-request-retx-drop': GTP-C Retransmitted Create Session Request dropped; 'gtp-u-out-of-state-drop': GTP-U Out of state Drop; 'gtp-c-handover-request-out-of-state-drop': GTP-C Handover Request Out of state Drop; 'gtp-v1-c-nsapi-not-found-in-delete-req': GTPv1-C NSAPI Not Found in GTP Request; 'gtp-v2-c-bearer-not-found-in-delete-req': GTPv2-C Bearer Not Found in GTP Request; 'gtp-v2-c-bearer-not-found-in-delete-resp': GTPv2-C Bearer Not Found in GTP Response; 'gtp-multiple-handover-request': GTP Multiple Handover Request; 'gtp-rr-message-drop': GTP Message Dropped in RR Mode; 'gtp-rr-echo-message-dcmsg': GTP Echo Message Sent to home CPU in RR Mode; 'gtp-rr-c-message-dcmsg': GTP-C Message Sent to home CPU in RR Mode; 'drop-gtp-frag-or-jumbo-pkt': GTP Fragmented or JUMBO packet Drop; 'response-with-reject-cause-forwarded': GTP-C Response with Reject Cause Forwarded; 'gtp-c-message-forwarded-without-conn': GTP-C Message Forwarded without Conn; 'gtp-v0-c-ver-not-supp': GTPv0-C Version not supported indication; 'gtp-v1-c-ver-not-supp': GTPv1-C Version not supported indication; 'gtp-v2-c-ver-not-supp': GTPv2-C Version not supported indication; 'gtp-v1-extn-hdt-notif': GTPV1 Supported Extension header notification; 'gtp-u-error-ind': GTP-U Error Indication; 'gtp-c-handover-in-progress-with-conn': GTP-C mesg matching conn with HO In

Progress; 'gtp-ho-in-progress-handover-request': GTP-C ho mesg matching conn with HO In Progress; 'gtp-correct-conn-ho-in-progress-handover-request': GTP-C ho mesg matching correct conn(reuse teid) with HO In Progress; 'gtp-wrong-conn-ho-in-progress-handover-request': GTP-C ho mesg matching wrong conn(new teid) with HO In Progress; 'gtp-ho-in-progress-handover-response': GTP-C ho response matching a conn with HO In Progress; 'gtp-ho-in-progress-c-mesg': GTP-C other than ho mesg matching conn with HO In Progress; 'gtp-unset-ho-flag-reuse-teid': GTP-C SGW reuse teid with ho and unset ho flag; 'gtp-refresh-c-conn-reuse-teid': GTP-C SGW reuse teid with ho and refresh old conn; 'gtp-rematch-smp-matching-conn': GTP-C rematch smp with packet matching conn; 'gtp-wrong-conn-handover-request': GTP-C ho mesg matching wrong conn(new teid) with no HO flag; 'gtp-refresh-conn-set-ho-flag-latest': GTP-C SGW refresh old conn and set ho flag on latest smp; 'gtp-c-process-pkt-drop': GTP-C process pkt drop; 'gtp-c-fwd-pkt-drop': GTP-C fwd pkt drop; 'gtp-c-rev-pkt-drop': GTP-C rev pkt drop; 'gtp-c-fwd-v1-other': GTP-C fwd v1 other messages; 'gtp-c-fwd-v2-other': GTP-C fwd v2 other messages; 'gtp-c-rev-v1-other': GTP-C rev v1 other messages; 'gtp-c-rev-v2-other': GTP-C rev v2 other messages; 'gtp-c-going-thru-fw-lookup': GTP-C mesg going thru fw lookup can be resp or l5 mesg not matching smp; 'gtp-c-conn-create-pkt-drop': GTP-C conn creation drop; 'gtp-c-pkt-fwd-conn-create-no-fteid': GTP-C pkt fwded while creating conn when no FTEID; 'gtp-inter-pu-mstr-to-bld-dcmsg-fail': GTP inter-PU dcmsg failed from Master to Blade; 'gtp-inter-pu-mstr-to-bld-dcmsg-sent': GTP inter-PU Master to Blade dcmsg sent; 'gtp-inter-pu-mstr-to-bld-dcmsg-recv': GTP inter-PU dcmsg received on blade; 'gtp-inter-pu-mstr-to-bld-query-sent': GTP inter-PU query sent from Master to Blade; 'gtp-inter-pu-mstr-to-bld-query-recv': GTP inter-PU GTP-C query received on Blade; 'gtp-inter-pu-mstr-to-bld-query-resp-sent': GTP inter-PU GTP-C query response sent from Master to Blade; 'gtp-inter-pu-bld-to-mstr-dcmsg-fail': GTP inter-PU dcmsg failed from Blade to Master; 'gtp-inter-pu-bld-to-mstr-dcmsg-sent': GTP inter-PU Blade to Master dcmsg sent; 'gtp-inter-pu-bld-to-mstr-dcmsg-recv': GTP inter-PU dcmsg received on Master; 'gtp-inter-pu-bld-to-mstr-query-sent': GTP inter-PU query sent from Blade to Master; 'gtp-inter-pu-bld-to-mstr-query-recv': GTP inter-PU GTP-C query received on Master; 'gtp-inter-pu-bld-to-mstr-query-resp-sent': GTP inter-PU GTP-C query response sent from Blade to Master; 'gtp-mstr-to-bld-query-resp-fail': GTP inter-PU dcmsg of query response failed from Master to Blade; 'gtp-bld-to-mstr-query-resp-fail': GTP inter-PU dcmsg of query response failed from Blade to Master; 'gtp-c-smp-refer-stale-idx': GTP-C SMP referring stale C-conn idx; 'gtp-smp-dec-sess-count-check-failed': GTP-U session count is 0 in GTP-C SMP; 'gtp-c-freed-conn-check': GTP-C freed conn accessed; 'gtp-c-conn-not-in-rml-when-freed': GTP-C conn not in rml when tuple is freed; 'gtp-v0-c-uplink-ingress-packets': GTPv0-C Uplink Ingress Packets; 'gtp-v0-c-uplink-egress-packets': GTPv0-C Uplink Egress Packets; 'gtp-v0-c-downlink-ingress-packets': GTPv0-C Downlink Ingress Packets; 'gtp-v0-c-downlink-egress-packets': GTPv0-C Downlink Egress Packets; 'gtp-v0-c-uplink-ingress-bytes': GTPv0-C Uplink Ingress Bytes; 'gtp-v0-c-uplink-egress-bytes': GTPv0-C Uplink Egress Bytes; 'gtp-v0-c-downlink-ingress-bytes': GTPv0-C Downlink Ingress Bytes; 'gtp-v0-c-downlink-egress-bytes': GTPv0-C Downlink Egress Bytes; 'gtp-v1-c-uplink-ingress-packets': GTPv1-C Uplink Ingress Packets; 'gtp-v1-c-uplink-egress-packets': GTPv1-C Uplink Egress Packets;

Type: string

Supported Values: all, out-of-session-memory, no-fwd-route, no-rev-route, blade-out-of-session-memory, blade-no-fwd-route, blade-no-rev-route, gtp-smp-created, gtp-smp-marked-deleted, gtp-smp-deleted, smp-creation-failed, gtp-smp-path-created, gtp-smp-path-freed, gtp-smp-path-allocated, gtp-smp-path-creation-failed, gtp-smp-path-check-failed, gtp-smp-c-check-failed, blade-gtp-smp-created, blade-gtp-smp-marked-deleted, blade-gtp-smp-deleted, blade-smp-creation-failed, blade-gtp-smp-path-created, blade-gtp-smp-path-freed, blade-gtp-smp-path-allocated, blade-gtp-smp-path-creation-failed, blade-gtp-smp-path-check-failed, blade-gtp-smp-c-check-failed, gtp-smp-session-count-check-failed, gtp-c-ref-count-smp-exceeded, blade-gtp-c-ref-count-smp-exceeded, gtp-u-smp-in-rml-with-sess, blade-gtp-u-smp-in-rml-with-sess, gtp-u-pkt-fwd-conn-create, gtp-c-pkt-fwd-conn-create, gtp-echo-

pkt-fwd-conn-create, gtp-tunnel-rate-limit-entry-create-success, gtp-tunnel-rate-limit-entry-inc-ref-count, gtp-tunnel-rate-limit-entry-create-failure, gtp-tunnel-rate-limit-entry-deleted, gtp-u-tunnel-rate-limit-entry-create-success, gtp-u-tunnel-rate-limit-entry-inc-ref-count, gtp-u-tunnel-rate-limit-entry-create-failure, gtp-u-tunnel-rate-limit-entry-deleted, gtp-rate-limit-smp-created, gtp-rate-limit-smp-freed, gtp-rate-limit-smp-create-failure, gtp-rate-limit-t3-ctr-create-failure, gtp-rate-limit-entry-create-failure, blade-gtp-rate-limit-smp-created, blade-gtp-rate-limit-smp-freed, blade-gtp-rate-limit-smp-create-failure, blade-gtp-rate-limit-t3-ctr-create-failure, blade-gtp-rate-limit-entry-create-failure, gtp-echo-conn-created, gtp-echo-conn-deleted, gtp-node-restart-echo, gtp-c-echo-path-failure, drop-vld-gtp-echo-out-of-state-, drop-vld-gtp-echo-ie-len-exceed-msg-len, drop-vld-gtp-u-echo-out-of-state-, gtp-create-session-request-retransmit, gtp-add-bearer-request-retransmit, gtp-delete-session-request-retransmit, gtp-handover-request-retransmit, gtp-del-bearer-request-retransmit, gtp-add-bearer-response-retransmit, gtp-create-session-request-retx-drop, gtp-u-out-of-state-drop, gtp-c-handover-request-out-of-state-drop, gtp-v1-c-nsapi-not-found-in-delete-req, gtp-v2-c-bearer-not-found-in-delete-req, gtp-v2-c-bearer-not-found-in-delete-resp, gtp-multiple-handover-request, gtp-rr-message-drop, gtp-u-rr-message-drop, gtp-rr-echo-message-dcmsg, gtp-rr-c-message-dcmsg, drop-gtp-frag-or-jumbo-pkt, response-with-reject-cause-forwarded, gtp-c-message-forwarded-without-conn, gtp-v0-c-ver-not-supp, gtp-v1-c-ver-not-supp, gtp-v2-c-ver-not-supp, gtp-v1-extn-hdt-notif, gtp-u-error-ind, gtp-c-handover-in-progress-with-conn, gtp-ho-in-progress-handover-request, gtp-correct-conn-ho-in-progress-handover-request, gtp-wrong-conn-ho-in-progress-handover-request, gtp-ho-in-progress-handover-response, gtp-ho-in-progress-c-mesg, gtp-unset-ho-flag-reuse-teid, gtp-refresh-c-conn-reuse-teid, gtp-rematch-smp-matching-conn, gtp-wrong-conn-handover-request, gtp-refresh-conn-set-ho-flag-latest, gtp-c-process-pkt-drop, gtp-c-fwd-pkt-drop, gtp-c-rev-pkt-drop, gtp-c-fwd-v1-other, gtp-c-fwd-v2-other, gtp-c-rev-v1-other, gtp-c-rev-v2-other, gtp-c-going-thru-fw-lookup, gtp-c-conn-create-pkt-drop, gtp-c-pkt-fwd-conn-create-no-fteid, gtp-inter-pu-mstr-to-bld-dcmsg-fail, gtp-inter-pu-mstr-to-bld-dcmsg-sent

counters2

Description 'gtp-v1-c-downlink-ingress-packets': GTPv1-C Downlink Ingress Packets; 'gtp-v1-c-downlink-egress-packets': GTPv1-C Downlink Egress Packets; 'gtp-v1-c-uplink-ingress-bytes': GTPv1-C Uplink Ingress Bytes; 'gtp-v1-c-uplink-egress-bytes': GTPv1-C Uplink Egress Bytes; 'gtp-v1-c-downlink-ingress-bytes': GTPv1-C Downlink Ingress Bytes; 'gtp-v1-c-downlink-egress-bytes': GTPv1-C Downlink Egress Bytes; 'gtp-v2-c-uplink-ingress-packets': GTPv2-C Uplink Ingress Packets; 'gtp-v2-c-uplink-egress-packets': GTPv2-C Uplink Egress Packets; 'gtp-v2-c-downlink-ingress-packets': GTPv2-C Downlink Ingress Packets; 'gtp-v2-c-downlink-egress-packets': GTPv2-C Downlink Egress Packets; 'gtp-v2-c-uplink-ingress-bytes': GTPv2-C Uplink Ingress Bytes; 'gtp-v2-c-uplink-egress-bytes': GTPv2-C Uplink Egress Bytes; 'gtp-v2-c-downlink-ingress-bytes': GTPv2-C Downlink Ingress Bytes; 'gtp-v2-c-downlink-egress-bytes': GTPv2-C Downlink Egress Bytes; 'gtp-u-uplink-ingress-packets': GTP-U Uplink Ingress Packets; 'gtp-u-uplink-egress-packets': GTP-U Uplink Egress Packets; 'gtp-u-downlink-ingress-packets': GTP-U Downlink Ingress Packets; 'gtp-u-downlink-egress-packets': GTP-U Downlink Egress Packets; 'gtp-u-uplink-ingress-bytes': GTP-U Uplink Ingress Bytes; 'gtp-u-uplink-egress-bytes': GTP-U Uplink Egress Bytes; 'gtp-u-downlink-ingress-bytes': GTP-U Downlink Ingress Bytes; 'gtp-u-downlink-egress-bytes': GTP-U Downlink Egress Bytes; 'gtp-v0-c-create-synced': GTPv0-C Tunnel Create Synced; 'gtp-v1-c-create-synced': GTPv1-C Tunnel Create Synced; 'gtp-v2-c-create-synced': GTPv2-C Tunnel Create Synced; 'gtp-v0-c-delete-synced': GTPv0-C Tunnel Delete Synced; 'gtp-v1-c-delete-synced': GTPv1-C Tunnel Delete Synced; 'gtp-v2-c-delete-synced': GTPv2-C Tunnel Delete Synced; 'gtp-v0-c-create-sync-rx': GTPv0-C Tunnel Create Sync Received on Standby; 'gtp-v1-c-create-sync-rx': GTPv1-C Tunnel Create Sync Received on Standby; 'gtp-v2-c-create-sync-rx': GTPv2-C Tunnel Create Sync Received on Standby; 'gtp-v0-c-delete-sync-rx': GTPv0-C Tunnel Delete Sync Received on Standby; 'gtp-v1-c-delete-sync-rx': GTPv1-C Tunnel Delete Sync Received on Standby; 'gtp-v2-c-delete-sync-rx': GTPv2-

C Tunnel Delete Sync Received on Standby; 'gtp-handover-synced': GTP Handover Synced; 'gtp-handover-sync-rx': GTP Handover Sync Received on Standby; 'gtp-smp-add-bearer-synced': GTP SMP Add Bearer Synced; 'gtp-smp-del-bearer-synced': GTP SMP Del Bearer Synced; 'gtp-smp-additional-bearer-synced': GTP SMP Additional Bearer Synced; 'gtp-smp-add-bearer-sync-rx': GTP SMP Add Bearer Sync Received on Standby; 'gtp-smp-del-bearer-sync-rx': GTP SMP Del Bearer Sync Received on Standby; 'gtp-smp-additional-bearer-sync-rx': GTP SMP Additional Bearer Sync Received on Standby; 'gtp-add-bearer-sync-not-rx-on-standby': GTP Add Bearer Sync Not Received on Standby; 'gtp-add-bearer-sync-with-periodic-update-on-standby': GTP Bearer Added on Standby with Periodic Sync; 'gtp-delete-bearer-sync-with-periodic-update-on-standby': GTP Bearer Deleted on Standy with Periodic Sync; 'gtp-v0-c-echo-create-synced': GTPv0-C Echo Create Synced; 'gtp-v1-c-echo-create-synced': GTPv1-C Echo Create Synced; 'gtp-v2-c-echo-create-synced': GTPv2-C Echo Create Synced; 'gtp-v0-c-echo-create-sync-rx': GTPv0-C-Echo Create Sync Received on Standby; 'gtp-v1-c-echo-create-sync-rx': GTPv1-C-Echo Create Sync Received on Standby; 'gtp-v2-c-echo-create-sync-rx': GTPv2-C-Echo Create Sync Received on Standby; 'gtp-v0-c-echo-del-synced': GTPv0-C Echo Delete Synced; 'gtp-v1-c-echo-del-synced': GTPv1-C Echo Delete Synced; 'gtp-v2-c-echo-del-synced': GTPv2-C Echo Delete Synced; 'gtp-v0-c-echo-del-sync-rx': GTPv0-C-Echo Delete Sync Received on Standby; 'gtp-v1-c-echo-del-sync-rx': GTPv1-C-Echo Delete Sync Received on Standby; 'gtp-v2-c-echo-del-sync-rx': GTPv2-C-Echo Delete Sync Received on Standby; 'drop-gtp-conn-creation-standby': GTP Conn creation on Standby Drop; 'gtp-u-synced-before-control': GTP-U Tunnel synced before corresponding GTP-C; 'gtp-c-l5-synced-before-l3': GTP-C L5 conn synced before corresponding L3 GTP-C conn; 'gtp-smp-path-del-synced': GTP SMP path delete Synced; 'gtp-smp-path-del-sync-rx': GTP SMP path delete Sync Received on Standby; 'gtp-not-enabled-on-standby': GTP Not Enabled on Standby; 'gtp-ip-version-v4-v6': GTP IP versions of V4&V6 in FTEID; 'drop-gtp-ip-version-mismatch-fteid': GTP IP version mismatch for req & response FTEIDs; 'drop-gtp-ip-version-mismatch-ho-fteid': GTP IP version mismatch in Handover SGW FTEID; 'gtp-u-message-length-mismatch': GTP-U Message Length Mismatch Across Layers; 'gtp-path-message-length-mismatch': GTP-Path Message Length Mismatch Across Layers; 'drop-gtp-missing-cond-ie-bearer-ctx': Missing conditional IE in bearer context Drop; 'drop-gtp-bearer-not-found-in-resp': GTP Bearer not found in response; 'gtp-stateless-forward': GTP Stateless Forward; 'gtp-l3-conn-deleted': GTP L3 conn deleted; 'gtp-l5-conn-created': GTP L5 conn created; 'gtp-monitor-forward': GTP messages forwarded via monitor mode; 'gtp-u_inner-ip-not-present': GTP-U inner IP not present; 'gtp-ext_hdr-incorrect-length': GTP Extension header incorrect length;

Type: string

Supported Values: gtp-inter-pu-mstr-to-bld-dcmsg-recv, gtp-inter-pu-mstr-to-bld-query-sent, gtp-inter-pu-mstr-to-bld-query-recv, gtp-inter-pu-mstr-to-bld-query-resp-sent, gtp-inter-pu-bld-to-mstr-dcmsg-fail, gtp-inter-pu-bld-to-mstr-dcmsg-sent, gtp-inter-pu-bld-to-mstr-dcmsg-recv, gtp-inter-pu-bld-to-mstr-query-sent, gtp-inter-pu-bld-to-mstr-query-recv, gtp-inter-pu-bld-to-mstr-query-resp-sent, gtp-mstr-to-bld-query-resp-fail, gtp-bld-to-mstr-query-resp-fail, gtp-c-smp-refer-stale-idx, gtp-smp-dec-sess-count-check-failed, gtp-c-freed-conn-check, gtp-c-conn-not-in-rml-when-freed, gtp-u-smp-check-failed, gtp-c-smp-already-in-rml, gtp-u-smp-already-in-rml, gtp-info-ext-not-found, gtp-c-smp-unlink-from-hash-fail, gtp-u-smp-unlink-from-hash-fail, gtp-smp-link-to-hash-in-rml, gtp-c-conn-ptr-not-found, gtp-smp-already-in-del-queue, gtp-smp-path-already-in-del-queue, blade-gtp-c-smp-refer-stale-idx, blade-gtp-smp-dec-sess-count-check-failed, blade-gtp-c-freed-conn-check, blade-gtp-c-conn-not-in-rml-when-freed, blade-gtp-u-smp-check-failed, blade-gtp-c-smp-already-in-rml, blade-gtp-u-smp-already-in-rml, blade-gtp-info-ext-not-found, blade-gtp-c-smp-unlink-from-hash-fail, blade-gtp-u-smp-unlink-from-hash-fail, blade-gtp-smp-link-to-hash-in-rml, blade-gtp-c-conn-ptr-not-found, blade-gtp-smp-already-in-del-queue, blade-gtp-smp-path-already-in-del-queue, gtp-smp-double-free, gtp-smp-path-double-free, gtp-c-smp-not-found-in-hash, gtp-u-smp-not-found-in-hash, gtp-smp-already-in-UL-hash, gtp-smp-already-in-

DL-hash, gtp-c-smp-in-rml-c-conn-age-upd, gtp-c-ref-count-max-smp-set-for-ageout, gtp-c-smp-del-max-ref-count, gtp-u-smp-unlinked-u-conn-creation, blade-gtp-smp-double-free, blade-gtp-smp-path-double-free, blade-gtp-c-smp-not-found-in-hash, blade-gtp-u-smp-not-found-in-hash, blade-gtp-smp-already-in-UL-hash, blade-gtp-smp-already-in-DL-hash, blade-gtp-c-smp-in-rml-c-conn-age-upd, blade-gtp-c-ref-count-max-smp-set-for-ageout, blade-gtp-c-smp-del-max-ref-count, blade-gtp-u-smp-unlinked-u-conn-creation, gtp-u-stateless-forward, gtp-u-smp-not-found-conn-creation, gtp-u-match-c-smp-with-del-flag, gtp-u-match-c-smp-with-ho-flag, gtp-u-match-dbr-u-smp-conn-create, gtp-c-info-extract-failed, gtp-c-smp-extract-failed, gtp-u-info-extract-failed, gtp-u-match-c-smp-in-rml, blade-gtp-c-info-extract-failed, blade-gtp-c-smp-extract-failed, blade-gtp-u-info-extract-failed, blade-gtp-u-match-c-smp-in-rml, gtp-echo-stateless-forward, gtp-u-smp-not-found-c-processing, gtp-u-pkt-u-smp-validation-failed, blade-gtp-u-pkt-u-smp-validation-failed, gtp-u-frag-pkt-processed, gtp-c-frag-pkt-received, gtp-u-frag-pkt-received, gtp-c-frag-or-jumbo-pkt-processed, gtp-echo-frag-or-jumbo-pkt-processed, gtp-u-tunnel-frag-or-jumbo-pkt-processed, gtp-u-attempt-for-double-free, gtp-c-attempt-for-double-free, gtp-c-smp-access-after-reuse, gtp-u-smp-access-after-reuse, gtp-c-smp-cleared-by-standalone, gtp-c-smp-cleared-by-l3-with-l5, blade-gtp-u-attempt-for-double-free, blade-gtp-c-attempt-for-double-free, blade-gtp-c-smp-access-after-reuse, blade-gtp-u-smp-access-after-reuse, blade-gtp-c-smp-cleared-by-standalone, blade-gtp-c-smp-cleared-by-l3-with-l5, blade-gtp-smp-session-count-check-failed

counters3

Description ‘gtp-inter-pu-u-create-sent’: GTP inter-pu U-creation sync sent; ‘gtp-inter-pu-u-delete-sent’: GTP inter-pu U-deletion sync sent; ‘gtp-inter-pu-c-query-sent’: GTP inter-pu C-query sync sent; ‘blade-gtp-inter-pu-u-create-sent’: GTP inter-pu U-creation sync sent on PU2; ‘blade-gtp-inter-pu-u-delete-sent’: GTP inter-pu U-deletion sync sent on PU2; ‘blade-gtp-inter-pu-c-query-sent’: GTP inter-pu C-query sync sent on PU2; ‘gtp-inter-pu-u-create-tx-fail’: GTP inter-pu U-creation tx fail; ‘gtp-inter-pu-u-delete-tx-fail’: GTP inter-pu U-deletion tx fail; ‘gtp-inter-pu-c-query-tx-fail’: GTP inter-pu C-query tx fail; ‘blade-gtp-inter-pu-u-create-tx-fail’: GTP inter-pu U-creation tx fail on PU2; ‘blade-gtp-inter-pu-u-delete-tx-fail’: GTP inter-pu U-deletion tx fail on PU2; ‘blade-gtp-inter-pu-c-query-tx-fail’: GTP inter-pu C-query tx fail on PU2; ‘gtp-inter-pu-u-create-recv’: GTP inter-pu U-creation recv; ‘gtp-inter-pu-u-delete-recv’: GTP inter-pu U-deletion recv; ‘gtp-inter-pu-c-query-recv’: GTP inter-pu C-mesg recv; ‘blade-gtp-inter-pu-u-create-recv’: GTP inter-pu U-creation recv on PU2; ‘blade-gtp-inter-pu-u-delete-recv’: GTP inter-pu U-deletion recv on PU2; ‘blade-gtp-inter-pu-c-query-recv’: GTP inter-pu C-mesg recv on PU2; ‘gtp-inter-pu-u-create-drop-no-smp’: GTP inter-pu U-create rx drop no smp; ‘blade-gtp-inter-pu-u-create-drop-no-smp’: GTP inter-pu U-create rx drop no smp PU2; ‘gtp-inter-pu-u-delete-drop-no-smp’: GTP inter-pu U-delete rx drop no smp; ‘blade-gtp-inter-pu-u-delete-drop-no-smp’: GTP inter-pu U-delete rx drop no smp PU2; ‘gtp-inter-pu-u-create-error’: GTP inter-pu U-create rx drop with error; ‘blade-gtp-inter-pu-u-create-error’: GTP inter-pu U-create rx drop with error PU2; ‘gtp-inter-pu-u-delete-error’: GTP inter-pu U-delete rx drop with error; ‘blade-gtp-inter-pu-u-delete-error’: GTP inter-pu U-delete rx drop with error PU2; ‘gtp-inter-pu-no-rsp-to-query’: GTP inter-pu No response to query; ‘blade-gtp-inter-pu-no-rsp-to-query’: GTP inter-pu No response to query on PU2; ‘gtp-fwd-tuple-dst-updated’: GTP FWD tuple updated with dst; ‘gtp-rev-tuple-dst-updated’: GTP REV tuple updated with dst; ‘gtp-c-conn-with-no-dst’: GTP-C created on active with no dst; ‘gtp-sync-rx-create-ext-bit-counter-inter-pu’: Conn Sync Create with Ext Received with inter-pu comm counter; ‘gtp-query-pkt-tx-counter-gtp-c’: Conn Query GTP-C sent counter; ‘gtp-query-pkt-tx-counter-gtp-u’: Conn Query GTP-U sent counter; ‘gtp-query-pkt-tx-counter-gtp-echo’: Conn Query GTP-ECHO sent counter; ‘gtp-sync-tx-inter-pu-no-vnp-error’: send of inter-pu msg failed with no vnp error; ‘gtp-sync-tx-inter-pu-no-gtp-u-ext’: send of inter-pu msg failed with no GTP-U ext; ‘gtp-sync-tx-inter-pu-no-ug-error’: send of inter-pu msg failed with no user group error; ‘gtp-sync-tx-inter-pu-no-msg-hdr-error’: send of inter-pu msg failed as msg header ext failed; ‘gtp-sync-tx-inter-pu-no-data-error’: send of inter-pu msg failed with no data to pack; ‘gtp-sync-tx-fw-drop-session-create’: Conn Sync

FW gtp Create Session Sent dropped; 'gtp-query-pkt-rx-counter-gtp-c': Conn Query GTP-C recv counter; 'gtp-query-pkt-rx-counter-gtp-u': Conn Query GTP-U recv counter; 'gtp-query-pkt-rx-counter-gtp-echo': Conn Query GTP-ECHO recv counter; 'gtp-sync-rx-del-c-counter': Conn Sync Del Session GTP-C Received counter; 'gtp-sync-rx-del-u-counter': Conn Sync Del Session GTP-U Received counter; 'gtp-sync-rx-del-echo-counter': Conn Sync Del Session ECHO Received counter; 'gtp-sync-rx-create-c-counter': Conn Sync create Session GTP-C Received counter; 'gtp-sync-rx-create-u-counter': Conn Sync create Session GTP-U Received counter; 'gtp-sync-rx-create-echo-counter': Conn Sync create Session ECHO Received counter; 'gtp-sync-tx-create-c-counter': Conn Sync create Session GTP-C sent counter; 'gtp-sync-tx-create-u-counter': Conn Sync create Session GTP-U sent counter; 'gtp-sync-tx-create-echo-counter': Conn Sync create Session ECHO sent counter; 'gtp-sync-tx-delete-c-counter': Conn Sync delete Session GTP-C sent counter; 'gtp-sync-tx-delete-u-counter': Conn Sync delete Session GTP-U sent counter; 'gtp-sync-tx-delete-echo-counter': Conn Sync delete Session ECHO sent counter; 'gtp-sync-rx-del-no-such-c-session': Conn Sync Del C-Conn not Found; 'gtp-sync-rx-del-no-such-u-session': Conn Sync Del U-Conn not Found; 'gtp-sync-rx-del-no-such-echo-session': Conn Sync Del ECHO-Conn not Found; 'gtp-c-match-c-smp-with-del-flag': GTP-C match C-smp with deletion flag; 'gtp-c-match-c-smp-with-ho-flag': GTP-C match C-smp with HO flag; 'gtp-c-smp-sig-check-failed': GTP-C SMP signature check Failed; 'blade-gtp-c-smp-sig-check-failed': GTP-C SMP signature check Failed on PU2; 'gtp-u-smp-sig-check-failed': GTP SMP signature check Failed; 'blade-gtp-u-smp-sig-check-failed': GTP-U SMP signature check Failed on PU2; 'gtp-smp-sig-check-failed': GTP SMP signature check Failed; 'blade-gtp-smp-sig-check-failed': GTP SMP signature check Failed on PU2; 'gtp-c-fail-conn-create-slow': GTP-C packet failed creating L4-session in slowpath; 'gtp-u-fail-conn-create-slow': GTP-U packet failed while creating L4-session in slowpath; 'gtp-pathm-fail-conn-create-slow': GTP path packet failed while creating L4-session in slowpath; 'gtp-v0-c-uplink-ingress-packets': GTPv0-C Uplink Ingress Packets; 'gtp-v0-c-uplink-egress-packets': GTPv0-C Uplink Egress Packets; 'gtp-v0-c-downlink-ingress-packets': GTPv0-C Downlink Ingress Packets; 'gtp-v0-c-downlink-egress-packets': GTPv0-C Downlink Egress Packets; 'gtp-v0-c-uplink-ingress-bytes': GTPv0-C Uplink Ingress Bytes; 'gtp-v0-c-uplink-egress-bytes': GTPv0-C Uplink Egress Bytes; 'gtp-v0-c-downlink-ingress-bytes': GTPv0-C Downlink Ingress Bytes; 'gtp-v0-c-downlink-egress-bytes': GTPv0-C Downlink Egress Bytes; 'gtp-v1-c-uplink-ingress-packets': GTPv1-C Uplink Ingress Packets; 'gtp-v1-c-uplink-egress-packets': GTPv1-C Uplink Egress Packets; 'gtp-v1-c-downlink-ingress-packets': GTPv1-C Downlink Ingress Packets; 'gtp-v1-c-downlink-egress-packets': GTPv1-C Downlink Egress Packets; 'gtp-v1-c-uplink-ingress-bytes': GTPv1-C Uplink Ingress Bytes; 'gtp-v1-c-uplink-egress-bytes': GTPv1-C Uplink Egress Bytes; 'gtp-v1-c-downlink-ingress-bytes': GTPv1-C Downlink Ingress Bytes; 'gtp-v1-c-downlink-egress-bytes': GTPv1-C Downlink Egress Bytes; 'gtp-v2-c-uplink-ingress-packets': GTPv2-C Uplink Ingress Packets; 'gtp-v2-c-uplink-egress-packets': GTPv2-C Uplink Egress Packets; 'gtp-v2-c-downlink-ingress-packets': GTPv2-C Downlink Ingress Packets; 'gtp-v2-c-downlink-egress-packets': GTPv2-C Downlink Egress Packets; 'gtp-v2-c-uplink-ingress-bytes': GTPv2-C Uplink Ingress Bytes; 'gtp-v2-c-uplink-egress-bytes': GTPv2-C Uplink Egress Bytes; 'gtp-v2-c-downlink-ingress-bytes': GTPv2-C Downlink Ingress Bytes; 'gtp-v2-c-downlink-egress-bytes': GTPv2-C Downlink Egress Bytes; 'gtp-u-uplink-ingress-packets': GTP-U Uplink Ingress Packets; 'gtp-u-uplink-egress-packets': GTP-U Uplink Egress Packets; 'gtp-u-downlink-ingress-packets': GTP-U Downlink Ingress Packets; 'gtp-u-downlink-egress-packets': GTP-U Downlink Egress Packets; 'gtp-u-uplink-ingress-bytes': GTP-U Uplink Ingress Bytes; 'gtp-u-uplink-egress-bytes': GTP-U Uplink Egress Bytes; 'gtp-u-downlink-ingress-bytes': GTP-U Downlink Ingress Bytes; 'gtp-u-downlink-egress-bytes': GTP-U Downlink Egress Bytes; 'gtp-v0-c-create-synced': GTPv0-C Tunnel Create Synced; 'gtp-v1-c-create-synced': GTPv1-C Tunnel Create Synced; 'gtp-v2-c-create-synced': GTPv2-C Tunnel Create Synced; 'gtp-v0-c-delete-synced': GTPv0-C Tunnel Delete Synced; 'gtp-v1-c-delete-synced': GTPv1-C Tunnel Delete Synced; 'gtp-v2-c-delete-synced': GTPv2-C Tunnel Delete Synced;

Type: string

Supported Values: gtp-smp-no-action-with-u-create, blade-gtp-smp-no-action-with-u-create, gtp-info-ext-not-packed, gtp-sync-new-conn-create, gtp-smp-not-found-inter-pu, blade-gtp-smp-not-found-inter-pu, gtp-inter-pu-u-create-sent, gtp-inter-pu-u-delete-sent, gtp-inter-pu-c-query-sent, blade-gtp-inter-pu-u-create-sent, blade-gtp-inter-pu-u-delete-sent, blade-gtp-inter-pu-c-query-sent, gtp-inter-pu-u-create-tx-fail, gtp-inter-pu-u-delete-tx-fail, gtp-inter-pu-c-query-tx-fail, blade-gtp-inter-pu-u-create-tx-fail, blade-gtp-inter-pu-u-delete-tx-fail, blade-gtp-inter-pu-c-query-tx-fail, gtp-inter-pu-u-create-recv, gtp-inter-pu-u-delete-recv, gtp-inter-pu-c-query-recv, blade-gtp-inter-pu-u-create-recv, blade-gtp-inter-pu-u-delete-recv, blade-gtp-inter-pu-c-query-recv, gtp-inter-pu-u-create-drop-no-smp, blade-gtp-inter-pu-u-create-drop-no-smp, gtp-inter-pu-u-delete-drop-no-smp, blade-gtp-inter-pu-u-delete-drop-no-smp, gtp-inter-pu-u-create-error, blade-gtp-inter-pu-u-create-error, gtp-inter-pu-u-delete-error, blade-gtp-inter-pu-u-delete-error, gtp-inter-pu-no-rsp-to-query, blade-gtp-inter-pu-no-rsp-to-query, gtp-fwd-tuple-dst-updated, gtp-rev-tuple-dst-updated, gtp-c-conn-with-no-dst, gtp-sync-rx-create-ext-bit-counter-inter-pu, gtp-query-pkt-tx-counter-gtp-c, gtp-query-pkt-tx-counter-gtp-u, gtp-query-pkt-tx-counter-gtp-echo, gtp-sync-tx-inter-pu-no-vnp-error, gtp-sync-tx-inter-pu-no-gtp-u-ext, gtp-sync-tx-inter-pu-no-ug-error, gtp-sync-tx-inter-pu-no-msg-hdr-error, gtp-sync-tx-inter-pu-no-data-error, gtp-sync-tx-fw-drop-session-create, gtp-query-pkt-rx-counter-gtp-c, gtp-query-pkt-rx-counter-gtp-u, gtp-query-pkt-rx-counter-gtp-echo, gtp-sync-rx-del-c-counter, gtp-sync-rx-del-u-counter, gtp-sync-rx-del-echo-counter, gtp-sync-rx-create-c-counter, gtp-sync-rx-create-u-counter, gtp-sync-rx-create-echo-counter, gtp-sync-tx-create-c-counter, gtp-sync-tx-create-u-counter, gtp-sync-tx-create-echo-counter, gtp-sync-tx-delete-c-counter, gtp-sync-tx-delete-u-counter, gtp-sync-tx-delete-echo-counter, gtp-sync-rx-del-no-such-c-session, gtp-sync-rx-del-no-such-u-session, gtp-sync-rx-del-no-such-echo-session, gtp-c-match-c-smp-with-del-flag, gtp-c-match-c-smp-with-ho-flag, gtp-c-smp-sig-check-failed, blade-gtp-c-smp-sig-check-failed, gtp-u-smp-sig-check-failed, blade-gtp-u-smp-sig-check-failed, gtp-smp-sig-check-failed, blade-gtp-smp-sig-check-failed, gtp-c-fail-conn-create-slow, gtp-u-fail-conn-create-slow, gtp-pathm-fail-conn-create-slow, gtp-v0-c-uplink-ingress-packets, gtp-v0-c-uplink-egress-packets, gtp-v0-c-downlink-ingress-packets, gtp-v0-c-downlink-egress-packets, gtp-v0-c-uplink-ingress-bytes, gtp-v0-c-uplink-egress-bytes, gtp-v0-c-downlink-ingress-bytes, gtp-v0-c-downlink-egress-bytes, gtp-v1-c-uplink-ingress-packets, gtp-v1-c-uplink-egress-packets, gtp-v1-c-downlink-ingress-packets, gtp-v1-c-downlink-egress-packets, gtp-v1-c-uplink-ingress-bytes, gtp-v1-c-uplink-egress-bytes, gtp-v1-c-downlink-ingress-bytes, gtp-v1-c-downlink-egress-bytes, gtp-v2-c-uplink-ingress-packets, gtp-v2-c-uplink-egress-packets, gtp-v2-c-downlink-ingress-packets, gtp-v2-c-downlink-egress-packets, gtp-v2-c-uplink-ingress-bytes, gtp-v2-c-uplink-egress-bytes, gtp-v2-c-downlink-ingress-bytes, gtp-v2-c-downlink-egress-bytes, gtp-u-uplink-ingress-packets, gtp-u-uplink-egress-packets, gtp-u-downlink-ingress-packets, gtp-u-downlink-egress-packets, gtp-u-uplink-ingress-bytes, gtp-u-uplink-egress-bytes, gtp-u-downlink-ingress-bytes

counters4

Description 'gtp-v0-c-create-sync-rx': GTPv0-C Tunnel Create Sync Received on Standby; 'gtp-v1-c-create-sync-rx': GTPv1-C Tunnel Create Sync Received on Standby; 'gtp-v2-c-create-sync-rx': GTPv2-C Tunnel Create Sync Received on Standby; 'gtp-v0-c-delete-sync-rx': GTPv0-C Tunnel Delete Sync Received on Standby; 'gtp-v1-c-delete-sync-rx': GTPv1-C Tunnel Delete Sync Received on Standby; 'gtp-v2-c-delete-sync-rx': GTPv2-C Tunnel Delete Sync Received on Standby; 'gtp-handover-synced': GTP Handover Synced; 'gtp-handover-sync-rx': GTP Handover Sync Received on Standby; 'gtp-smp-add-bearer-synced': GTP SMP Add Bearer Synced; 'gtp-smp-del-bearer-synced': GTP SMP Del Bearer Synced; 'gtp-smp-additional-bearer-synced': GTP SMP Additional Bearer Synced; 'gtp-smp-add-bearer-sync-rx': GTP SMP Add Bearer Sync Received on Standby; 'gtp-smp-del-bearer-sync-rx': GTP SMP Del Bearer Sync Received on Standby; 'gtp-smp-additional-bearer-sync-rx': GTP SMP Additional Bearer Sync Received on Standby; 'gtp-add-bearer-sync-not-rx-

on-standby': GTP Add Bearer Sync Not Received on Standby; 'gtp-add-bearer-sync-with-periodic-update-on-standby': GTP Bearer Added on Standby with Periodic Sync; 'gtp-delete-bearer-sync-with-periodic-update-on-standby': GTP Bearer Deleted on Standy with Periodic Sync; 'gtp-v0-c-echo-create-synced': GTPv0-C Echo Create Synced; 'gtp-v1-c-echo-create-synced': GTPv1-C Echo Create Synced; 'gtp-v2-c-echo-create-synced': GTPv2-C Echo Create Synced; 'gtp-v0-c-echo-create-sync-rx': GTPv0-C-Echo Create Sync Received on Standby; 'gtp-v1-c-echo-create-sync-rx': GTPv1-C-Echo Create Sync Received on Standby; 'gtp-v2-c-echo-create-sync-rx': GTPv2-C-Echo Create Sync Received on Standby; 'gtp-v0-c-echo-del-synced': GTPv0-C Echo Delete Synced; 'gtp-v1-c-echo-del-synced': GTPv1-C Echo Delete Synced; 'gtp-v2-c-echo-del-synced': GTPv2-C Echo Delete Synced; 'gtp-v0-c-echo-del-sync-rx': GTPv0-C-Echo Delete Sync Received on Standby; 'gtp-v1-c-echo-del-sync-rx': GTPv1-C-Echo Delete Sync Received on Standby; 'gtp-v2-c-echo-del-sync-rx': GTPv2-C-Echo Delete Sync Received on Standby; 'drop-gtp-conn-creation-standby': GTP Conn creation on Standby Drop; 'gtp-u-synced-before-control': GTP-U Tunnel synced before corresponding GTP-C; 'gtp-c-l5-synced-before-l3': GTP-C L5 conn synced before corresponding L3 GTP-C conn; 'gtp-smp-path-del-synced': GTP SMP path delete Synced; 'gtp-smp-path-del-sync-rx': GTP SMP path delete Sync Received on Standby; 'gtp-not-enabled-on-standby': GTP Not Enabled on Standby; 'gtp-ip-version-v4-v6': GTP IP versions of V4&V6 in FTEID; 'drop-gtp-ip-version-mismatch-fteid': GTP IP version mismatch for req & response FTEIDs; 'drop-gtp-ip-version-mismatch-ho-fteid': GTP IP version mismatch in Handover SGW FTEID; 'gtp-u-message-length-mismatch': GTP-U Message Length Mismatch Across Layers; 'gtp-path-message-length-mismatch': GTP-Path Message Length Mismatch Across Layers; 'drop-gtp-missing-cond-ie-bearer-ctx': Missing conditional IE in bearer context Drop; 'drop-gtp-bearer-not-found-in-resp': GTP Bearer not found in response; 'gtp-stateless-forward': GTP Stateless Forward; 'gtp-l3-conn-deleted': GTP L3 conn deleted; 'gtp-l5-conn-created': GTP L5 conn created; 'gtp-monitor-forward': GTP messages forwarded via monitor mode; 'gtp-u-monitor-forward': GTP-U messages forwarded via monitor mode; 'gtp-u_inner-ip-not-present': GTP-U inner IP not present; 'gtp-ext_hdr-incorrect-length': GTP Extension header incorrect length;

Type: string

Supported Values: gtp-u-downlink-egress-bytes, gtp-v0-c-create-synced, gtp-v1-c-create-synced, gtp-v2-c-create-synced, gtp-v0-c-delete-synced, gtp-v1-c-delete-synced, gtp-v2-c-delete-synced, gtp-v0-c-create-sync-rx, gtp-v1-c-create-sync-rx, gtp-v2-c-create-sync-rx, gtp-v0-c-delete-sync-rx, gtp-v1-c-delete-sync-rx, gtp-v2-c-delete-sync-rx, gtp-handover-synced, gtp-handover-sync-rx, gtp-smp-add-bearer-synced, gtp-smp-del-bearer-synced, gtp-smp-additional-bearer-synced, gtp-smp-add-bearer-sync-rx, gtp-smp-del-bearer-sync-rx, gtp-smp-additional-bearer-sync-rx, gtp-add-bearer-sync-not-rx-on-standby, gtp-add-bearer-sync-with-periodic-update-on-standby, gtp-delete-bearer-sync-with-periodic-update-on-standby, gtp-v0-c-echo-create-synced, gtp-v1-c-echo-create-synced, gtp-v2-c-echo-create-synced, gtp-v0-c-echo-create-sync-rx, gtp-v1-c-echo-create-sync-rx, gtp-v2-c-echo-create-sync-rx, gtp-v0-c-echo-del-synced, gtp-v1-c-echo-del-synced, gtp-v2-c-echo-del-synced, gtp-v0-c-echo-del-sync-rx, gtp-v1-c-echo-del-sync-rx, gtp-v2-c-echo-del-sync-rx, drop-gtp-conn-creation-standby, gtp-u-synced-before-control, gtp-c-l5-synced-before-l3, gtp-smp-path-del-synced, gtp-smp-path-del-sync-rx, gtp-not-enabled-on-standby, gtp-ip-version-v4-v6, drop-gtp-ip-version-mismatch-fteid, drop-gtp-ip-version-mismatch-ho-fteid, gtp-u-message-length-mismatch, gtp-path-message-length-mismatch, drop-gtp-missing-cond-ie-bearer-ctx, drop-gtp-bearer-not-found-in-resp, gtp-stateless-forward, gtp-l3-conn-deleted, gtp-l5-conn-created, gtp-monitor-forward, gtp-u-monitor-forward, gtp-u_inner-ip-not-present, gtp-ext_hdr-incorrect-length

template

Specification	Value
Type	*object*

logging-list

Type: List

Reference Object: */axapi/v3/fw/template/logging/{name}*

template_logging-list

Specification	Value
Type	*list*
Block object keys	

custom

Description: custom is a **JSON Block**. Please see below for *template_logging-list_custom*

Type: Object

disable-log-by-destination

Description: disable-log-by-destination is a **JSON Block**. Please see below for *template_logging-list_disable-log-by-destination*

Type: Object

Reference Object: */axapi/v3/fw/template/logging/{name}/disable-log-by-destination*

enable-log-by-destination

Description: enable-log-by-destination is a **JSON Block**. Please see below for *template_logging-list_enable-log-by-destination*

Type: Object

Reference Object: */axapi/v3/fw/template/logging/{name}/enable-log-by-destination*

facility

Description 'kernel': 0: Kernel; 'user': 1: User-level; 'mail': 2: Mail; 'daemon': 3: System daemons; 'security-authorization': 4: Security/authorization; 'syslog': 5: Syslog internal; 'line-printer': 6: Line printer; 'news': 7: Network news; 'uucp': 8: UUCP subsystem; 'cron': 9: Time-related; 'security-authorization-private': 10: Private security/authorization; 'ftp': 11: FTP; 'ntp': 12: NTP; 'audit': 13: Audit; 'alert': 14: Alert; 'clock': 15: Clock-related; 'local0': 16: Local use 0; 'local1': 17: Local use 1; 'local2': 18: Local use 2; 'local3': 19: Local use 3; 'local4': 20: Local use 4; 'local5': 21: Local use 5; 'local6': 22: Local use 6; 'local7': 23: Local use 7;

Type: string

Supported Values: kernel, user, mail, daemon, security-authorization, syslog, line-printer, news, uucp, cron, security-authorization-private, ftp, ntp, audit, alert, clock, local0, local1, local2, local3, local4, local5, local6, local7

Default: local0

format

Description 'ascii': A10 Text logging format (ASCII); 'cef': Common Event Format for logging (default);

Type: string

Supported Values: ascii, cef, custom

Default: cef

include-dest-fqdn

Description Include destination FQDN string

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-http

Description: include-http is a **JSON Block**. Please see below for *template_logging-list_include-http*

Type: Object

include-radius-attribute

Description: include-radius-attribute is a **JSON Block**. Please see below for *template_logging-list_include-radius-attribute*

Type: Object

include-year

Description include the 4-digit year in logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log

Description: log is a **JSON Block**. Please see below for *template_logging-list_log*

Type: Object

merged-style

Description Merge creation and deletion of session logs to one

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

name

Description Logging Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

resolution

Description 'seconds': Logging timestamp resolution in seconds (default); '10-milliseconds': Logging timestamp resolution in 10s of milli-seconds;

Type: string

Supported Values: seconds, 10-milliseconds

Default: seconds

rule

Description: rule is a **JSON Block**. Please see below for *template_logging-list_rule*

Type: Object

service-group

Description Bind a Service Group to the logging template (Service Group Name)

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

session-periodic-log

Description: session-periodic-log is a **JSON Block**. Please see below for *template_logging-list_session-periodic-log*

Type: Object

Reference Object: */axapi/v3/fw/template/logging/{name}/session-periodic-log*

severity

Description 'emergency': 0: Emergency; 'alert': 1: Alert; 'critical': 2: Critical; 'error': 3: Error; 'warning': 4: Warning; 'notice': 5: Notice; 'informational': 6: Informational; 'debug': 7: Debug;

Type: string

Supported Values: emergency, alert, critical, error, warning, notice, informational, debug

Default: informational

source-address

Description: source-address is a **JSON Block**. Please see below for *template_logging-list_source-address*

Type: Object

Reference Object: */axapi/v3/fw/template/logging/{name}/source-address*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_session-periodic-log

Specification	Value
Type	*object*

interval

Description Logging time interval (minutes) for long lived sessions

Type: number

Range: 1-60

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_source-address

Specification	Value
Type	*object*

ip

Description Specify source IP address

Type: string

Format: ipv4-address

ipv6

Description Specify source IPv6 address

Type: string

Format: ipv6-address

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_include-radius-attribute

Specification	Value
Type	*object*

attr-cfg

Type: List

framed-ipv6-prefix

Description Include radius attributes for the prefix

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

insert-if-not-existing

Description Configure what string is to be inserted for custom RADIUS attributes

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

no-quote

Description No quotation marks for RADIUS attributes in logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

prefix-length

Description '32': Prefix length 32; '48': Prefix length 48; '64': Prefix length 64; '80': Prefix length 80; '96': Prefix length 96; '112': Prefix length 112;

Type: string

Supported Values: 32, 48, 64, 80, 96, 112

zero-in-custom-attr

Description Insert 0000 for standard and custom attributes in log string

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_logging-list_include-radius-attribute_attr-cfg

Specification	Value
Type	*list*
Block object keys	

attr

Description 'imei': Include IMEI; 'imsi': Include IMSI; 'msisdn': Include MSISDN; 'custom1': Customized attribute 1; 'custom2': Customized attribute 2; 'custom3': Customized attribute 3; 'custom4': Customized attribute 4; 'custom5': Customized attribute 5; 'custom6': Customized attribute 6;

Type: string

Supported Values: imei, imsi, msisdn, custom1, custom2, custom3, custom4, custom5, custom6

attr-event

Description 'http-requests': Include in HTTP request logs; 'sessions': Include in session logs; 'limit-policy': Include in limit policy logs;

Type: string

Supported Values: http-requests, sessions, limit-policy

template_logging-list_rule

Specification	Value
Type	*object*

rule-http-requests

Description: rule-http-requests is a **JSON Block**. Please see below for *template_logging-list_rule_rule-http-requests*

Type: Object

template_logging-list_rule_rule-http-requests

Specification	Value
Type	*object*

dest-port

Type: List

disable-sequence-check

Description Disable http packet sequence check and don't drop out of order packets

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

include-all-headers

Description Include all configured headers despite of absence in HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

log-every-http-request

Description Log every HTTP request in an HTTP 1.1 session (Default: Log the first HTTP request in a session)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

max-url-len

Description Max length of URL log (Max URL length (Default: 128 char))

Type: number

Range: 100-1000

Default: 100

template_logging-list_rule_rule-http-requests_dest-port

Specification	Value
Type	*list*
Block object keys	

dest-port-number

Description

Type: number

Range: 1-65535

include-byte-count

Description Include the byte count of HTTP Request/Response in FW session deletion logs

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_logging-list_disable-log-by-destination

Specification	Value
Type	*object*

icmp

Description Disable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list

Type: List

Reference Object: */axapi/v3/fw/template/logging/{name}/disable-log-by-destination/ip/{ipv4-addr}*

ip6-list

Type: List

Reference Object: */axapi/v3/fw/template/logging/{name}/disable-log-by-destination/ip6/{ipv6-addr}*

others

Description Disable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_disable-log-by-destination_ip-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Disable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4-addr

Description Configure an IP subnet

Type: string

Format: ipv4-cidr

others

Description Disable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_disable-log-by-destination_ip-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_disable-log-by-destination_ip-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_disable-log-by-destination_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_disable-log-by-destination_ip6-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Disable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6-addr

Description Configure an IPv6 subnet

Type: string

Format: ipv6-address-plen

others

Description Disable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_disable-log-by-destination_ip6-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_disable-log-by-destination_ip6-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_disable-log-by-destination_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_include-http

Specification	Value
Type	*object*

file-extension

Description HTTP file extension

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

header-cfg

Type: List

l4-session-info

Description Log the L4 session information of the HTTP request

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

method

Description Log the HTTP Request Method

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

request-number

Description HTTP Request Number

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

template_logging-list_include-http_header-cfg

Specification	Value
Type	*list*
Block object keys	

custom-header-name

Description Header name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

custom-max-length

Description Max length for a HTTP request log (Max header length (Default: 100 char))

Type: number

Range: 100-1000

Default: 100

http-header

Description 'cookie': Log HTTP Cookie Header; 'referer': Log HTTP Referer Header; 'user-agent': Log HTTP User-Agent Header; 'header1': Log HTTP Header 1; 'header2': Log HTTP Header 2; 'header3': Log HTTP Header 3;

Type: string

Supported Values: cookie, referer, user-agent, header1, header2, header3

max-length

Description Max length for a HTTP request log (Max header length (Default: 100 char))

Type: number

Range: 100-1000

Default: 100

template_logging-list_enable-log-by-destination

Specification	Value
Type	*object*

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ip-list

Type: List

Reference Object: */axapi/v3/fw/template/logging/{name}/enable-log-by-destination/ip/{ipv4-addr}*

ip6-list

Type: List

Reference Object: */axapi/v3/fw/template/logging/{name}/enable-log-by-destination/ip6/{ipv6-addr}*

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_enable-log-by-destination_ip-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4-addr

Description Configure an IP subnet

Type: string

Format: ipv4-cidr

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_enable-log-by-destination_ip-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_enable-log-by-destination_ip-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_enable-log-by-destination_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_enable-log-by-destination_ip6-list

Specification	Value
Type	*list*
Block object keys	

icmp

Description Enable logging for the ICMP traffic

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv6-addr

Description Configure an IPv6 subnet

Type: string

Format: ipv6-address-plen

others

Description Enable logging for the other layer-4 protocols

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

tcp-list

Type: List

udp-list

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

template_logging-list_enable-log-by-destination_ip6-list_tcp-list

Specification	Value
Type	*list*
Block object keys	

tcp-port-end

Description Port Range End

Type: number

tcp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_enable-log-by-destination_ip6-list_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_enable-log-by-destination_udp-list

Specification	Value
Type	*list*
Block object keys	

udp-port-end

Description Port Range End

Type: number

udp-port-start

Description Destination Port (Single Destination Port or Port Range Start)

Type: number

template_logging-list_custom

Specification	Value
Type	*object*

custom-message

Description: custom-message is a **JSON Block**. Please see below for *template_logging-list_custom_custom-message*

Type: Object

template_logging-list_custom_custom-message

Specification	Value
Type	*object*

custom-session-created

Description Session created (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

custom-session-deleted

Description Session deleted (Custom message string)

Type: string

Format: string-rlx

Maximum Length: 255 characters

Maximum Length: 1 characters

template_logging-list_log

Specification	Value
Type	*object*

http-requests

Description 'host': Log the HTTP Host Header; 'url': Log the HTTP Request URL;

Type: string

Supported Values: host, url

match

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

status

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

fast-forwarding

Specification	Value
Type	*object*

toggle

Description 'enable': Enable fast forwarding path; 'disable': Disable fast forwarding path;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

full-cone-session

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

urpf

Specification	Value
Type	*object*

status

Description 'loose': Perform loose check; 'strict': Perform strict check; 'disable': Disable check;

Type: string

Supported Values: loose, strict, disable

Default: loose

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tap-monitor

Specification	Value
Type	*object*

status

Description 'enable': Enable tap monitor mode; 'disable': Disable tap monitor mode (Default:Disable);

Type: string

Supported Values: enable, disable

Default: disable

tap-port-cfg

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tap-monitor_tap-port-cfg

Specification	Value
Type	*list*
Block object keys	

tap-eth

Description Ethernet interface number

Type: number

Format: interface

tap-vlan

Description Vlan number

Type: number

Range: 2-4096

local-log

Specification	Value
Type	*object*

local-logging

Description Enable local logging

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

hairpin

Specification	Value
Type	*object*

next-hop-follow

Description: next-hop-follow is a **JSON Block**. Please see below for *hairpin_next-hop-follow*

Type: Object

Reference Object: */axapi/v3/fw/hairpin/next-hop-follow*

hairpin_next-hop-follow

Specification	Value
Type	*object*

disable-local-hairpin

Description Disable local hairpin

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

ipv4

Description IPV4 network

Type: string

Format: ipv4-cidr

ipv6

Description IPV6 network

Type: string

Format: ipv6-address-plen

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

resource-usage

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

active-rule-set

Specification	Value
Type	*object*

name

Description Rule set name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/rule-set*

override-nat-aging

Description Override NAT idle-timeout

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

session-aging

Description Session Aging Template

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/fw/session-aging*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging

Specification	Value
Type	*object*

cef-label

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

gtp

Description: gtp is a **JSON Block**. Please see below for *logging_gtp*

Type: Object

Reference Object: */axapi/v3/fw/logging/gtp*

name

Description Logging Template Name

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/fw/template/logging*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging_gtp

Specification	Value
Type	*object*

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

logging_gtp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'log_type_gtp_invalid_teid': Log Event Type GTP Invalid TEID; 'log_gtp_type_reserved_ie_present': Log Event Type GTP Reserved IE Present; 'log_type_gtp_mandatory_ie_missing': Log Event Type GTP Mandatory IE Missing; 'log_type_gtp_mandatory_ie_inside_grouped_ie_missing': Log Event Type GTP Mandatory IE Missing Inside Grouped IE; 'log_type_gtp_msisdn_filtering': Log Event Type GTP MSISDN Filtering; 'log_type_gtp_out_of_order_ie': Log Event Type GTP Out of Order IE V1; 'log_type_gtp_out_of_state_ie': Log Event Type GTP Out of State IE; 'log_type_enduser_ip_spoofed': Log Event Type GTP Enduser IP Spoofed; 'log_type_crosslayer_correlation': Log Event GTP Crosslayer Correlation; 'log_type_message_not_supported': Log Event GTP Reserved Message Found; 'log_type_out_of_state': Log Event GTP Out of State Message; 'log_type_max_msg_length': Log Event GTP Message Length Exceeded Max; 'log_type_gtp_message_filtering': Log Event Type GTP Message Filtering; 'log_type_gtp_apn_filtering': Log Event Type GTP Apn Filtering; 'log_type_gtp_rat_type_filtering': Log Event GTP

RAT Type Filtering; 'log_type_country_code_mismatch': Log Event GTP Country Code Mismatch; 'log_type_gtp_in_gtp_filtering': Log Event GTP in GTP Filtering; 'log_type_gtp_node_restart': Log Event GTP SGW/PGW restarted; 'log_type_gtp_seq_num_mismatch': Log Event GTP Response Sequence number Mismatch; 'log_type_gtp_rate_limit_periodic': Log Event GTP Rate Limit Periodic; 'log_type_gtp_rate_limit_periodic': Log Event GTP Invalid message length across layers; 'log_type_gtp_rate_limit_periodic': Log Event GTP Protocol flag in header; 'log_type_gtp_rate_limit_periodic': Log Event GTP invalid spare bits in header; 'log_type_gtp_rate_limit_periodic': Log Event GTP invalid piggyback flag in header; 'log_type_gtp_rate_limit_periodic': Log Event invalid GTP version; 'log_type_gtp_rate_limit_periodic': Log Event mismatch of GTP message and ports;

Type: string

Supported Values: all, log_type_gtp_invalid_teid, log_gtp_type_reserved_ie_present, log_type_gtp_mandatory_ie_missing, log_type_gtp_mandatory_ie_inside_grouped_ie_missing, log_type_gtp_msisdn_filtering, log_type_gtp_out_of_order_ie, log_type_gtp_out_of_state_ie, log_type_enduser_ip_spoofed, log_type_crosslayer_correlation, log_type_message_not_supported, log_type_out_of_state, log_type_max_msg_length, log_type_gtp_message_filtering, log_type_gtp_apn_filtering, log_type_gtp_rat_type_filtering, log_type_country_code_mismatch, log_type_gtp_in_gtp_filtering, log_type_gtp_node_restart, log_type_gtp_seq_num_mismatch, log_type_gtp_rate_limit_periodic, log_type_gtp_invalid_message_length, log_type_gtp_hdr_invalid_protocol_flag, log_type_gtp_hdr_invalid_spare_bits, log_type_gtp_hdr_invalid_piggy_flag, log_type_gtp_invalid_version, log_type_gtp_invalid_ports

logging_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'log_message_sent': Log Packet Sent; 'log_type_reset': Log Event Type Reset; 'log_type_deny': Log Event Type Deny; 'log_type_session_closed': Log Event Type Session Close; 'log_type_session_opened': Log Event Type Session Open; 'rule_not_logged': Firewall Rule Not Logged; 'log-dropped': Log Packets Dropped; 'tcp-session-created': TCP Session Created; 'tcp-session-deleted': TCP Session Deleted; 'udp-session-created': UDP Session Created; 'udp-session-deleted': UDP Session Deleted; 'icmp-session-deleted': ICMP Session Deleted; 'icmp-session-created': ICMP Session Created; 'icmpv6-session-deleted': ICMPV6 Session Deleted; 'icmpv6-session-created': ICMPV6 Session Created; 'other-session-deleted': Other Session Deleted; 'other-session-created': Other Session Created; 'http-request-logged': HTTP Request Logged; 'http-logging-invalid-format': HTTP Logging Invalid Format Error; 'dcmsg_permit': Dcmsg Permit; 'alg_override_permit': Alg Override Permit; 'template_error': Template Error; 'ipv4-frag-applied': IPv4 Fragmentation Applied; 'ipv4-frag-failed': IPv4 Fragmentation Failed; 'ipv6-frag-applied': IPv6 Fragmentation Applied; 'ipv6-frag-failed': IPv6 Fragmentation Failed; 'out-of-buffers': Out of Buffers; 'add-msg-failed': Add Message to Buffer Failed; 'tcp-logging-conn-established': TCP Logging Conn Established; 'tcp-logging-conn-create-failed': TCP Logging Conn Create Failed; 'tcp-logging-conn-dropped': TCP Logging Conn Dropped; 'log-message-too-long': Log message

too long; 'http-out-of-order-dropped': HTTP out-of-order dropped; 'http-alloc-failed': HTTP Request Info Allocation Failed; 'sctp-session-created': SCTP Session Created; 'sctp-session-deleted': SCTP Session Deleted; 'log_type_sctp_inner_proto_filter': Log Event Type SCTP Inner Proto Filter; 'tcp-logging-port-allocated': TCP Logging Port Allocated; 'tcp-logging-port-freed': TCP Logging Port Freed; 'tcp-logging-port-allocation-failed': TCP Logging Port Allocation Failed; 'iddos-blackhole-entry-create': iDDoS IP Entry Created; 'iddos-blackhole-entry-delete': iDDoS IP Entry Deleted; 'session-limit-exceeded': Session Limit Exceeded;

Type: string

Supported Values: all, log_message_sent, log_type_reset, log_type_deny, log_type_session_closed, log_type_session_opened, rule_not_logged, log-dropped, tcp-session-created, tcp-session-deleted, udp-session-created, udp-session-deleted, icmp-session-deleted, icmp-session-created, icmpv6-session-deleted, icmpv6-session-created, other-session-deleted, other-session-created, http-request-logged, http-logging-invalid-format, dcmsg_permit, alg_override_permit, template_error, ipv4-frag-applied, ipv4-frag-failed, ipv6-frag-applied, ipv6-frag-failed, out-of-buffers, add-msg-failed, tcp-logging-conn-established, tcp-logging-conn-create-failed, tcp-logging-conn-dropped, log-message-too-long, http-out-of-order-dropped, http-alloc-failed, sctp-session-created, sctp-session-deleted, log_type_sctp_inner_proto_filter, tcp-logging-port-allocated, tcp-logging-port-freed, tcp-logging-port-allocation-failed, iddos-blackhole-entry-create, iddos-blackhole-entry-delete, session-limit-exceeded

tcp-window-check

Specification	Value
Type	*object*

sampling-enable

Type: List

status

Description 'enable': Enable TCP window check (default); 'disable': Disable TCP window check;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tcp-window-check_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'outside-window': packet dropped counter for outside of tcp window;

Type: string

Supported Values: all, outside-window

service-group-list

Specification	Value
Type	*list*
Block object keys	

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/health/monitor*

member-list

Type: List

Reference Object: */axapi/v3/fw/service-group/{name}/member/{name}+{port}*

name

Description FW Service Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/fw-service-group-tmpl*

protocol

Description 'tcp': TCP LB service; 'udp': UDP LB service;

Type: string

Supported Values: tcp, udp

sampling-enable

Type: List

traffic-replication-mirror-ip-repl

Description Replaces IP with server-IP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service-group-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'server_selection_fail_drop': Service selection fail drop; 'server_selection_fail_reset': Service selection fail reset; 'service_peak_conn': Service peak connection;

Type: string

Supported Values: all, server_selection_fail_drop, server_selection_fail_reset, service_peak_conn

service-group-list_member-list

Specification	Value
Type	*list*
Block object keys	

name

Description Member name

Type: string

Format: comp-string

Maximum Length: 127 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/fw/server*

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/fw-service-group-mem-tmpl*

port

Description Port number

Type: number

Range: 1-65534

Reference Object: */axapi/v3/fw/server/port*

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

service-group-list_member-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr_conn': Current connections; 'total_fwd_bytes': Total forward bytes; 'total_fwd_pkts': Total forward packets; 'total_rev_bytes': Total reverse bytes; 'total_rev_pkts': Total reverse packets; 'total_conn': Total connections; 'total_rev_pkts_inspected': Total reverse packets inspected; 'total_rev_pkts_inspected_status_code_2xx': Total reverse packets inspected status code 2xx; 'total_rev_pkts_inspected_status_code_non_5xx': Total reverse packets inspected status code non 5xx; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total requests success; 'peak_conn': Peak connections; 'response_time': Response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time; 'curr_ssl_conn': Current SSL connections; 'total_ssl_conn': Total SSL connections; 'curr_conn_overflow': Current connection counter overflow count; 'state_flaps': State flaps count;

Type: string

Supported Values: all, curr_conn, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_conn, total_rev_pkts_inspected, total_rev_pkts_inspected_status_code_2xx, total_rev_pkts_inspected_status_code_non_5xx, curr_req, total_req, total_req_succ, peak_conn, response_time, fastest_rsp_time, slowest_rsp_time, curr_ssl_conn, total_ssl_conn, curr_conn_overflow, state_flaps

helper-sessions

Specification	Value
Type	*object*

idle-timeout

Description helper-sessions idle-timeout time (Idle-timeout in minutes (default: 1 minute))

Type: number

Range: 1-255

Default: 1

limit

Description Limit number of helper-sessions (Limit helper-sessions number)

Type: number

mode

Description 'disable': Disable helper-sessions;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'enable': Enable this Real Server; 'disable': Disable this Real Server;

Type: string

Supported Values: enable, disable

Default: enable

fqdn-name

Description Server hostname

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

health-check

Description Health Check Monitor (Health monitor name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable configured health check configuration

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

host

Description IP Address

Type: string

Format: ipv4-address

name

Description Server Name

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

port-list

Type: List

Reference Object: */axapi/v3/fw/server/{name}/port/{port-number}+{protocol}*

resolve-as

Description 'resolve-to-ipv4': Use A Query only to resolve FQDN; 'resolve-to-ipv6': Use AAAA Query only to resolve FQDN; 'resolve-to-ipv4-and-ipv6': Use A as well as AAAA Query to resolve FQDN;

Type: string

Supported Values: resolve-to-ipv4, resolve-to-ipv6, resolve-to-ipv4-and-ipv6

Default: resolve-to-ipv4

sampling-enable

Type: List

server-ipv6-addr

Description IPV6 address

Type: string

Format: ipv6-address

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server-list_port-list

Specification	Value
Type	*list*
Block object keys	

action

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

health-check

Description Health Check (Monitor Name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Mutual Exclusion: health-check and health-check-disable are mutually exclusive

Reference Object: */axapi/v3/health/monitor*

health-check-disable

Description Disable health check

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

Mutual Exclusion: health-check-disable and health-check are mutually exclusive

packet-capture-template

Description Name of the packet capture template to be bind with this object

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/visibility/packet-capture/object-templates/fw-server-port-tmpl*

port-number

Description Port Number

Type: number

Range: 1-65534

protocol

Description 'tcp': TCP Port; 'udp': UDP Port;

Type: string

Supported Values: tcp, udp

sampling-enable

Type: List

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

server-list_port-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr_conn': Current connections; 'curr_req': Current requests; 'total_req': Total requests; 'total_req_succ': Total request success; 'total_fwd_bytes': Forward bytes; 'total_fwd_pkts': Forward packets; 'total_rev_bytes': Reverse bytes; 'total_rev_pkts': Reverse packets; 'total_conn': Total connections; 'last_total_conn': Last total connections; 'peak_conn': Peak connections; 'es_resp_200': Response status 200; 'es_resp_300': Response status 300; 'es_resp_400': Response status 400; 'es_resp_500': Response status 500; 'es_resp_other': Response status other; 'es_req_count': Total proxy request; 'es_resp_count': Total proxy Response; 'es_resp_invalid_http': Total non-http response; 'total_rev_pkts_inspected': Total reverse packets inspected; 'total_rev_pkts_inspected_good_status_code': Total reverse packets with good status code inspected; 'response_time': Response time; 'fastest_rsp_time': Fastest response time; 'slowest_rsp_time': Slowest response time;

Type: string

Supported Values: all, curr_conn, curr_req, total_req, total_req_succ, total_fwd_bytes, total_fwd_pkts, total_rev_bytes, total_rev_pkts, total_conn, last_total_conn, peak_conn, es_resp_200, es_resp_300, es_resp_400, es_resp_500, es_resp_other, es_req_count, es_resp_count, es_resp_invalid_http, total_rev_pkts_inspected, total_rev_pkts_inspected_good_status_code, response_time, fastest_rsp_time, slowest_rsp_time

server-list_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'curr-conn': Current connections; 'total-conn': Total connections; 'fwd-pkt': Forward packets; 'rev-pkt': Reverse Packets; 'peak-conn': Peak connections;

Type: string

Supported Values: all, curr-conn, total-conn, fwd-pkt, rev-pkt, peak-conn

session-aging-list

Specification	Value
Type	*list*
Block object keys	

icmp-idle-timeout

Description Idle Timeout time (default 2 seconds) (Second, default 2)

Type: number

Range: 2-15000

Default: 2

ip-idle-timeout

Description Idle Timeout time(sec), default is 30 (Second)

Type: number

Range: 1-2097151

Default: 30

name

Description session-aging Template (session-aging Template name)

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

tcp

Description: tcp is a **JSON Block**. Please see below for *session-aging-list_tcp*

Type: Object

Reference Object: */axapi/v3/fw/session-aging/{name}/tcp*

udp

Description: udp is a **JSON Block**. Please see below for *session-aging-list_udp*

Type: Object

Reference Object: */axapi/v3/fw/session-aging/{name}/udp*

user-tag

Description Customized tag

Type: string

Format: string-rlx

Maximum Length: 127 characters

Maximum Length: 1 characters

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

session-aging-list_udp

Specification	Value
Type	*object*

port-cfg

Type: List

udp-idle-timeout

Description Idle Timeout (sec), default is 120 (number)

Type: number

Range: 1-2097151

Default: 120

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

session-aging-list_udp_port-cfg

Specification	Value
Type	*list*
Block object keys	

udp-idle-timeout

Description Idle Timeout (sec), default is 120 (number)

Type: number

Range: 1-2097151

Default: 120

udp-port

Description

Type: number

Range: 1-65535

session-aging-list_tcp

Specification	Value
Type	*object*

force-delete-timeout

Description The maximum time that a session can stay in the system before being deleted, default is off (number (second))

Type: number

Range: 1-31

Mutual Exclusion: force-delete-timeout and force-delete-timeout-100ms are mutually exclusive

force-delete-timeout-100ms

Description The maximum time that a session can stay in the system before being deleted, default is off (number in 100ms)

Type: number

Range: 1-31

Mutual Exclusion: force-delete-timeout-100ms and force-delete-timeout are mutually exclusive

half-close-idle-timeout

Description TCP Half Close Idle Timeout (sec), default is off (number)

Type: number

Range: 1-120

half-open-idle-timeout

Description TCP Half Open Idle Timeout (sec), default is off (number)

Type: number

Range: 1-60

port-cfg

Type: List

tcp-idle-timeout

Description Idle Timeout (sec), default is 600 (number)

Type: number

Range: 1-2097151

Default: 600

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

session-aging-list_tcp_port-cfg

Specification	Value
Type	*list*
Block object keys	

force-delete-timeout

Description The maximum time that a session can stay in the system before being deleted, default is off (number (second))

Type: number

Range: 1-31

Mutual Exclusion: force-delete-timeout and force-delete-timeout-100ms are mutually exclusive

force-delete-timeout-100ms

Description The maximum time that a session can stay in the system before being deleted, default is off (number in 100ms)

Type: number

Range: 1-31

Mutual Exclusion: force-delete-timeout-100ms and force-delete-timeout are mutually exclusive

half-close-idle-timeout

Description TCP Half Close Idle Timeout (sec), default is off (number)

Type: number

Range: 1-120

half-open-idle-timeout

Description TCP Half Open Idle Timeout (sec), default is off (number)

Type: number

Range: 1-60

tcp-idle-timeout

Description Idle Timeout (sec), default is 600 (number)

Type: number

Range: 1-2097151

tcp-port

Description

Type: number

Range: 1-65535

client

Specification	Value
Type	*object*

name

Description Class List (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type

Description 'ipv4': Make class-list type IPv4; 'ipv6': Make class-list type IPv6;

Type: string

Supported Values: ipv4, ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ddos-protection

Specification	Value
Type	*object*

action

Description: action is a **JSON Block**. Please see below for *ddos-protection_action*

Type: Object

dynamic-blacklist

Description: dynamic-blacklist is a **JSON Block**. Please see below for *ddos-protection_dynamic-blacklist*

Type: Object

logging

Description: logging is a **JSON Block**. Please see below for *ddos-protection_logging*

Type: Object

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ddos-protection_action

Specification	Value
Type	*object*

action-type

Description 'drop': Log, and drop all packets (default); 'redistribute-route': Log, Drop, and Notify upstream router to reroute the packets;

Type: string

Supported Values: drop, redistribute-route

Default: drop

expiration

Description To specify time in minutes to revert the action (Expiration time, in minutes (default is 5 mins))

Type: number

Range: 2-144000

Default: 5

expiration-route

Description To specify time in minutes to revert the action (Expiration time, in minutes (default is 60 mins))

Type: number

Range: 2-144000

Default: 60

forward

Description Forward traffic with rate-limiting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

remove-wait-timer

Description Max time to wait before removing IP from blackhole (Max value in seconds (default 300))

Type: number

Range: 0-300

Default: 300

route-map

Description Route map name

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

timer-multiply-max

Description To specify max value of timer multiplier for attacks lasted long time (Max value of timer multiplier (default is 6))

Type: number

Range: 1-100

Default: 6

ddos-protection_logging

Specification	Value
Type	*object*

enable-action

Description 'local': Enable local logs only; 'remote': Enable logging to remote server & IP-FIX; 'both': Enable both local & remote logs;

Type: string

Supported Values: local, remote, both

Default: local

logging-action

Description 'enable': enable FW DDoS protection logging; 'disable': Disable both local & remote FW DDoS protection logging;

Type: string

Supported Values: enable, disable

Default: enable

ddos-protection_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ddos_entries_too_many': Too many DDOS entries; 'ddos_entry_added': DDOS entry added; 'ddos_entry_removed': DDOS entry removed; 'ddos_entry_added_to_bgp': DDoS Entry added to BGP; 'ddos_entry_removed_from_bgp': DDoS Entry Removed from BGP; 'ddos_entry_add_to_bgp_failure': DDoS Entry BGP add failures; 'ddos_entry_remove_from_bgp_failure': DDOS entry BGP remove failures; 'ddos_packet_dropped': DDOS Packet Drop;

Type: string

Supported Values: all, ddos_entries_too_many, ddos_entry_added, ddos_entry_removed, ddos_entry_added_to_bgp, ddos_entry_removed_from_bgp, ddos_entry_add_to_bgp_failure, ddos_entry_remove_from_bgp_failure, ddos_packet_dropped

ddos-protection_dynamic-blacklist

Specification	Value
Type	*object*

cpu-threshold

Description Core-level CPU usage threshold for dynamic blacklist creation (Core-level CPU usage threshold for dynamic blacklist creation (default is 60))

Type: number

Range: 0-80

Default: 60

dir

Description 'inbound': enable in inbound direction; 'outbound': enable in outbound direction; 'both': enable in both directions;

Type: string

Supported Values: inbound, outbound, both

Default: both

dynamic-blacklist-action

Description 'enable': Enable protection against volumetric attacks using dynamic blacklist; 'disable': Disable protection against volumetric attacks using dynamic blacklist;

Type: string

Supported Values: enable, disable

Default: disable

timeout

Description Timeout value (in seconds) for dynamic blacklist (Timeout value (in seconds) for dynamic blacklist(default is 5 seconds))

Type: number

Range: 1-30

Default: 5

top-k-rules

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.53.2 fw active-rule-set

Active firewall policy

active-rule-set Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	active-rule-set
Element URI	/axapi/v3/fw/active-rule-set
Element Attributes	active-rule-set_attributes
Partition Visibility	shared
Schema	`active-rule-set schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/active-rule-set

active-rule-set attributes

```
POST /axapi/v3/fw/active-rule-set
Payload:
{
    "active-rule-set": {
        "name": "a",
        "session-aging": "a"
    }
}
```

Get Object

GET

/axapi/v3/fw/active-rule-set

active-rule-set attributes

```
GET /axapi/v3/fw/active-rule-set
Reponse:
{
    "active-rule-set": {
        "name": "a",
        "session-aging": "a",
        "override-nat-aging": 0,
        "uuid": "b6347254-08e0-11f0-a952-c3be1c247dd7",
        "a10-url": "/axapi/v3/fw/active-rule-set"
    }
}
```

Modify Object

POST

/axapi/v3/fw/active-rule-set

active-rule-set attributes

Replace Object

PUT

/axapi/v3/fw/active-rule-set

active-rule-set attributes

```
PUT /axapi/v3/fw/active-rule-set
Payload:
{
    "active-rule-set": {
        "name": "a",
        "session-aging": "abcd"
    }
}
```

Delete Object

DELETE

/axapi/v3/fw/active-rule-set

active-rule-set attributes

```
DELETE /axapi/v3/fw/active-rule-set
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

active-rule-set attributes

name

Description Rule set name

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/rule-set*

override-nat-aging

Description Override NAT idle-timeout

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

session-aging

Description Session Aging Template

Type: string

Maximum Length: 63 characters

Maximum Length: 1 characters

Reference Object: */axapi/v3/fw/session-aging*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.53.3 fw alg

Configure ALG

alg Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	alg
Element URI	/axapi/v3/fw/alg
Element Attributes	alg_attributes
Partition Visibility	shared
Schema	`alg schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg

alg attributes

```
POST /axapi/v3/fw/alg
Payload:
{
    "alg": {
        "ftp": {
            "default-port-disable": "default-port-disable"
        }
    }
}
```

Get Object

GET

/axapi/v3/fw/alg

alg attributes

```
GET /axapi/v3/fw/alg
Reponse:
{
    "alg": {
        "uuid": "462528ac-08de-11f0-8baa-c3be1c247dd7",
        "ftp": {
            "default-port-disable": "default-port-disable",
            "uuid": "4625294c-08de-11f0-8baa-c3be1c247dd7",
            "a10-url": "/axapi/v3/fw/alg/ftp"
        },
        "tftp": {
            "uuid": "462529ec-08de-11f0-8baa-c3be1c247dd7",
            "a10-url": "/axapi/v3/fw/alg/tftp"
        },
        "rtsp": {
            "uuid": "46252a82-08de-11f0-8baa-c3be1c247dd7",
            "a10-url": "/axapi/v3/fw/alg/rtsp"
        },
        "pptp": {
            "uuid": "46252b22-08de-11f0-8baa-c3be1c247dd7",
            "a10-url": "/axapi/v3/fw/alg/pptp"
        },
        "sip": {
            "uuid": "46252bc2-08de-11f0-8baa-c3be1c247dd7",
            "a10-url": "/axapi/v3/fw/alg/sip"
        },
        "esp": {
            "uuid": "46252c62-08de-11f0-8baa-c3be1c247dd7",
            "a10-url": "/axapi/v3/fw/alg/esp"
        },
        "a10-url": "/axapi/v3/fw/alg"
    }
}
```

Modify Object

POST

/axapi/v3/fw/alg

alg attributes

Replace Object

PUT

/axapi/v3/fw/alg

alg attributes

```
PUT /axapi/v3/fw/alg
Payload:
```

(continues on next page)

(continued from previous page)

```
{
    "alg": {
        "ftp": {
            "sampling-enable": [
                {
                    "counters1": "client-port-request"
                }
            ]
        }
    }
}
```

Delete Object

DELETE

/axapi/v3/fw/alg

alg attributes

```
DELETE /axapi/v3/fw/alg
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

alg attributes

dns

Description: dns is a **JSON Block**. Please see below for *dns*

Type: Object

Reference Object: */axapi/v3/fw/alg/dns*

esp

Description: esp is a **JSON Block**. Please see below for *esp*

Type: Object

Reference Object: */axapi/v3/fw/alg/esp*

ftp

Description: ftp is a **JSON Block**. Please see below for *ftp*

Type: Object

Reference Object: */axapi/v3/fw/alg/ftp*

icmp

Description: icmp is a **JSON Block**. Please see below for *icmp*

Type: Object

Reference Object: */axapi/v3/fw/alg/icmp*

pptp

Description: pptp is a **JSON Block**. Please see below for *pptp*

Type: Object

Reference Object: */axapi/v3/fw/alg/pptp*

rtsp

Description: rtsp is a **JSON Block**. Please see below for *rtsp*

Type: Object

Reference Object: */axapi/v3/fw/alg/rtsp*

sctp

Description: sctp is a **JSON Block**. Please see below for *sctp*

Type: Object

Reference Object: */axapi/v3/fw/alg/sctp*

sip

Description: sip is a **JSON Block**. Please see below for *sip*

Type: Object

Reference Object: */axapi/v3/fw/alg/sip*

tftp

Description: tftp is a **JSON Block**. Please see below for *tftp*

Type: Object

Reference Object: */axapi/v3/fw/alg/tftp*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ftp

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable FTP ALG default port 21;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

ftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'client-port-request': PORT Requests From Client; 'client-eprt-request': EPRT Requests From Client; 'server-pasv-reply': PASV Replies From Server; 'server-epsv-reply': EPSV Replies From Server; 'port-retransmits': PORT Retransmits; 'pasv-retransmits': PASV Retransmits; 'smp-app-type-mismatch': SMP App Type Mismatch; 'retransmit-sanity-check-failure': Retransmit Sanity Check Failure; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'port-helper-created': PORT Helper Created; 'pasv-helper-created': PASV Helper Created; 'port-helper-acquire-in-del-q': PORT Helper Acquire In Del Queue; 'port-helper-acquire-already-used': PORT Helper Acquire Already Used; 'pasv-helper-acquire-in-del-q': PASV Helper Acquire In Del Queue; 'pasv-helper-acquire-already-used': PASV Helper Acquire Already Used; 'port-helper-freed-used': PORT Helper Freed Used; 'port-helper-freed-unused': PORT Helper Freed Unused; 'pasv-helper-freed-used': PASV Helper Freed Used; 'pasv-helper-freed-unused': PASV Helper Freed Unused;

Type: string

Supported Values: all, client-port-request, client-eprt-request, server-pasv-reply, server-epsv-reply, port-retransmits, pasv-retransmits, smp-app-type-mismatch, retransmit-sanity-check-failure, smp-conn-alloc-failure, port-helper-created, pasv-helper-created, port-helper-acquire-in-del-q, port-helper-acquire-already-used, pasv-helper-acquire-in-del-q, pasv-helper-acquire-already-used, port-helper-freed-used, port-helper-freed-unused, pasv-helper-freed-used, pasv-helper-freed-unused

sip

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable SIP ALG default port 5060;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sip_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'stat-request': Request Received; 'stat-response': Response Received; 'method-register': Method REGISTER; 'method-invite': Method INVITE; 'method-ack': Method ACK; 'method-cancel': Method CANCEL; 'method-bye': Method BYE; 'method-options': Method OPTIONS; 'method-prack': Method PRACK; 'method-subscribe': Method SUBSCRIBE; 'method-notify': Method NOTIFY; 'method-publish': Method PUBLISH; 'method-info': Method INFO; 'method-refer': Method REFER; 'method-message': Method MESSAGE; 'method-update': Method UPDATE; 'method-unknown': Method Unknown; 'parse-error': Message Parse Error; 'keep-alive': Keep Alive; 'contact-error': Contact Process Error; 'sdp-error': SDP Process Error; 'rtp-port-no-op': RTP Port No Op; 'rtp-rtcp-port-success': RTP RTCP Port Success; 'rtp-port-failure': RTP Port Failure; 'rtcp-port-failure': RTCP Port Failure; 'contact-port-no-op': Contact Port No Op; 'contact-port-success': Contact Port Success; 'contact-port-failure': Contact Port Failure; 'contact-new': Contact Alloc; 'contact-alloc-failure': Contact Alloc Failure; 'contact-eim': Contact EIM; 'contact-eim-set': Contact EIM Set; 'rtp-new': RTP Alloc; 'rtp-alloc-failure': RTP Alloc Failure; 'rtp-eim': RTP EIM; 'helper-found': SMP Helper Conn Found; 'helper-created': SMP Helper Conn Created; 'helper-deleted': SMP Helper Conn Already Deleted; 'helper-freed': SMP Helper Conn Freed; 'helper-failure': SMP Helper Failure;

Type: string

Supported Values: all, stat-request, stat-response, method-register, method-invite, method-ack, method-cancel, method-bye, method-options, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error, keep-alive, contact-error, sdp-error, rtp-port-no-op, rtp-rtcp-port-success, rtp-port-failure, rtcp-port-failure, contact-port-no-op, contact-port-success, contact-port-failure, contact-new, contact-alloc-failure, contact-eim, contact-eim-set, rtp-new, rtp-alloc-failure, rtp-eim, helper-found, helper-created, helper-deleted, helper-freed, helper-failure

esp

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable ESP ALG default port 500;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

esp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'helper-created': ESP Helper Sessions Created; 'helper-freed': ESP Helper Sessions Freed; 'helper-freed-used': ESP Helper Sessions freed used; 'helper-freed-unused': ESP Helper Sessions freed unused; 'helper-already-used': ESP Helper Session already used; 'helper-in-rml': ESP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

pptp

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable PPTP ALG default port 1723;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

pptp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'gre-session-created': GRE Session Created; 'gre-session-freed': GRE Session Freed; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-ext-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-app-type-mismatch': SMP App Type Mismatch; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-sessions-created': SMP Session Created; 'smp-sessions-freed': SMP Session Freed; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, gre-session-created, gre-session-freed, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-ext-ext-alloc-failure, smp-app-type-mismatch, smp-client-call-id-mismatch, smp-sessions-created, smp-sessions-freed, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

rtsp

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable RTSP ALG default port 554;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

rtsp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'transport-inserted': Transport Created; 'transport-freed': Transport Freed; 'transport-alloc-failure': Transport Alloc Failure; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'ext-creation-failure': Extension Creation Failure; 'transport-add-to-ext': Transport Added to Extension; 'transport-removed-from-ext': Transport Removed from Extension; 'transport-too-many': Too Many Transports for Control Conn; 'transport-already-in-ext': Transport Already in Extension; 'transport-exists': Transport Already Exists; 'transport-link-ext-failure-control': Transport Link to Extension Failure Control; 'transport-link-ext-data': Transport Link to Extension Data; 'transport-link-ext-failure-data': Transport Link to Extension Failure Data; 'transport-inserted-shadow': Transport Inserted Shadow; 'transport-creation-race': Transport Create Race; 'transport-alloc-failure-shadow': Transport Alloc Failure Shadow; 'transport-put-in-del-q': Transport Put

in Delete Queue; 'transport-freed-shadow': Transport Freed Shadow; 'transport-acquired-from-control': Transport Acquired Control; 'transport-found-from-prev-control': Transport Found From Prev Control; 'transport-acquire-failure-from-control': Transport Acquire Failure Control; 'transport-released-from-control': Transport Released Control; 'transport-double-release-from-control': Transport Double Release Control; 'transport-acquired-from-data': Transport Acquired Data; 'transport-acquire-failure-from-data': Transport Acquire Failure Data; 'transport-released-from-data': Transport Released Data; 'transport-double-release-from-data': Transport Double Release Data; 'transport-retry-lookup-on-data-free': Transport Retry Lookup Data; 'transport-not-found-on-data-free': Transport Not Found Data; 'data-session-created-shadow': Data Session Created Shadow; 'data-session-freed-shadow': Data Session Freed Shadow; 'ha-control-ext-creation-failure': HA Control Extension Creation Failure; 'ha-control-session-created': HA Control Session Created; 'ha-data-session-created': HA Data Session Created;

Type: string

Supported Values: all, transport-inserted, transport-freed, transport-alloc-failure, data-session-created, data-session-freed, ext-creation-failure, transport-add-to-ext, transport-removed-from-ext, transport-too-many, transport-already-in-ext, transport-exists, transport-link-ext-failure-control, transport-link-ext-data, transport-link-ext-failure-data, transport-inserted-shadow, transport-creation-race, transport-alloc-failure-shadow, transport-put-in-del-q, transport-freed-shadow, transport-acquired-from-control, transport-found-from-prev-control, transport-acquire-failure-from-control, transport-released-from-control, transport-double-release-from-control, transport-acquired-from-data, transport-acquire-failure-from-data, transport-released-from-data, transport-double-release-from-data, transport-retry-lookup-on-data-free, transport-not-found-on-data-free, data-session-created-shadow, data-session-freed-shadow, ha-control-ext-creation-failure, ha-control-session-created, ha-data-session-created

dns

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable DNS ALG default port 53;

Type: string

Supported Values: default-port-disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tftp

Specification	Value
Type	*object*

default-port-disable

Description 'default-port-disable': Disable TFTP ALG default port 69;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

tftp_sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions Created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

icmp

Specification	Value
Type	*object*

disable

Description 'disable': Disable ICMP ALG which allows ICMP errors to pass the firewall;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sctp

Specification	Value
Type	*object*

action

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.53.4 fw alg dns

Change Firewall DNS ALG Settings

dns Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	dns
Element URI	/axapi/v3/fw/alg/dns
Element Attributes	dns_attributes
Partition Visibility	shared
Schema	`dns schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/dns

dns attributes

```
POST /axapi/v3/fw/alg/dns
Payload:
{
    "dns": {
        "default-port-disable": "default-port-disable"
    }
}
```

Get Object

GET

/axapi/v3/fw/alg/dns

dns attributes

```
GET /axapi/v3/fw/alg/dns
Reponse:
{
    "dns": {
        "default-port-disable": "default-port-disable",
        "uuid": "1736f342-08e1-11f0-a952-c3be1c247dd7",
        "a10-url": "/axapi/v3/fw/alg/dns"
    }
}
```

Modify Object

POST

/axapi/v3/fw/alg/dns

dns attributes

Replace Object

PUT

/axapi/v3/fw/alg/dns

dns attributes

```
PUT /axapi/v3/fw/alg/dns
Payload:
{
    "dns": {
        "default-port-disable": "default-port-disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/fw/alg/dns

dns attributes

```
DELETE /axapi/v3/fw/alg/dns
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

dns attributes

default-port-disable

Description 'default-port-disable': Disable DNS ALG default port 53;

Type: string

Supported Values: default-port-disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.53.5 fw alg esp

Change Firewall ESP ALG Settings

esp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	esp
Element URI	/axapi/v3/fw/alg/esp
Element Attributes	esp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/fw/alg/esp/stats
Schema	`esp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/esp

esp attributes

```
POST /axapi/v3/fw/alg/esp
Payload:
{
    "esp": {
        "default-port-disable": "default-port-disable"
    }
}
```

Get Object

GET

/axapi/v3/fw/alg/esp

esp attributes

```
GET /axapi/v3/fw/alg/esp
Reponse:
{
    "esp": {
        "default-port-disable": "default-port-disable",
        "uuid": "46252c62-08de-11f0-8baa-c3be1c247dd7",
        "a10-url": "/axapi/v3/fw/alg/esp"
    }
}
```

Modify Object

POST

/axapi/v3/fw/alg/esp

esp attributes

Replace Object

PUT

/axapi/v3/fw/alg/esp

esp attributes

Delete Object

DELETE

/axapi/v3/fw/alg/esp

esp attributes

esp attributes

default-port-disable

Description 'default-port-disable': Disable ESP ALG default port 500;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': ESP Sessions Created; 'helper-created': ESP Helper Sessions Created; 'helper-freed': ESP Helper Sessions Freed; 'helper-freed-used': ESP Helper Sessions freed used; 'helper-freed-unused': ESP Helper Sessions freed unused; 'helper-already-used': ESP Helper Session already used; 'helper-in-rml': ESP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

2.53.6 fw alg esp stats

Statistics for the object esp

esp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	esp
Element URI	/axapi/v3/fw/alg/esp/stats
Element Attributes	esp_attributes
Partition Visibility	None
Schema	`esp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/esp/stats

esp attributes

Get Object

GET

/axapi/v3/fw/alg/esp/stats

esp attributes

Modify Object

POST

/axapi/v3/fw/alg/esp/stats

esp attributes

Replace Object

PUT

/axapi/v3/fw/alg/esp/stats

esp attributes

Delete Object

DELETE

/axapi/v3/fw/alg/esp/stats

esp attributes

esp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

helper-created

Description ESP Helper Sessions Created

Type: number

Format: counter

helper-freed

Description ESP Helper Sessions Freed

Type: number

Format: counter

session-created

Description ESP Sessions Created

Type: number

Format: counter

2.53.7 fw alg ftp

Change Firewall FTP ALG Settings

ftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ftp
Element URI	/axapi/v3/fw/alg/ftp
Element Attributes	ftp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/fw/alg/ftp/stats
Schema	`ftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/ftp

ftp attributes

```
POST /axapi/v3/fw/alg/ftp
Payload:
{
    "ftp": {
        "default-port-disable": "default-port-disable"
    }
}
```

Get Object

GET

/axapi/v3/fw/alg/ftp

ftp attributes

```
GET /axapi/v3/fw/alg/ftp
Reponse:
{
    "ftp": {
        "default-port-disable": "default-port-disable",
        "uuid": "4625294c-08de-11f0-8baa-c3be1c247dd7",
        "a10-url": "/axapi/v3/fw/alg/ftp"
    }
}
```

Modify Object

POST

/axapi/v3/fw/alg/ftp

ftp attributes

Replace Object

PUT

/axapi/v3/fw/alg/ftp

ftp attributes

```
PUT /axapi/v3/fw/alg/ftp
Payload:
{
    "ftp": {
        "default-port-disable": "default-port-disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/fw/alg/ftp

ftp attributes

```
DELETE /axapi/v3/fw/alg/ftp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ftp attributes

default-port-disable

Description 'default-port-disable': Disable FTP ALG default port 21;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'client-port-request': PORT Requests From Client; 'client-eprt-request': EPRT Requests From Client; 'server-pasv-reply': PASV Replies From Server; 'server-epsv-reply': EPSV Replies From Server; 'port-retransmits': PORT Retransmits; 'pasv-retransmits': PASV Retransmits; 'smp-app-type-mismatch': SMP App Type Mismatch; 'retransmit-sanity-check-failure': Retransmit Sanity Check Failure; 'smp-conn-alloc-failure': SMP Helper Conn Alloc Failure; 'port-helper-created': PORT Helper Created; 'pasv-helper-created': PASV Helper Created; 'port-helper-acquire-in-del-q': PORT Helper Acquire In Del Queue; 'port-helper-acquire-already-used': PORT Helper Acquire Already Used; 'pasv-helper-acquire-in-del-q': PASV Helper Acquire In Del Queue; 'pasv-helper-acquire-already-used': PASV Helper Acquire Already Used; 'port-helper-freed-used': PORT Helper Freed Used; 'port-helper-freed-unused': PORT Helper Freed Unused; 'pasv-helper-freed-used': PASV Helper Freed Used; 'pasv-helper-freed-unused': PASV Helper Freed Unused;

Type: string

Supported Values: all, client-port-request, client-eprt-request, server-pasv-reply, server-epsv-reply, port-retransmits, pasv-retransmits, smp-app-type-mismatch, retransmit-sanity-check-failure, smp-conn-alloc-failure, port-helper-created, pasv-helper-created, port-helper-acquire-in-del-q, port-helper-acquire-already-used, pasv-helper-acquire-in-del-q, pasv-helper-acquire-already-used, port-helper-freed-used, port-helper-freed-unused, pasv-helper-freed-used, pasv-helper-freed-unused

2.53.8 fw alg ftp stats

Statistics for the object ftp

ftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ftp
Element URI	/axapi/v3/fw/alg/ftp/stats
Element Attributes	ftp_attributes
Partition Visibility	None
Schema	`ftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/ftp/stats

ftp attributes

Get Object

GET

/axapi/v3/fw/alg/ftp/stats

ftp attributes

Modify Object

POST

/axapi/v3/fw/alg/ftp/stats

ftp attributes

Replace Object

PUT

/axapi/v3/fw/alg/ftp/stats

ftp attributes

Delete Object

DELETE

/axapi/v3/fw/alg/ftp/stats

ftp attributes

ftp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

client-eprt-request

Description EPRT Requests From Client

Type: number

Format: counter

client-port-request

Description PORT Requests From Client

Type: number

Format: counter

server-epsv-reply

Description EPSV Replies From Server

Type: number

Format: counter

server-pasv-reply

Description PASV Replies From Server

Type: number

Format: counter

2.53.9 fw alg icmp

Change Firewall ICMP ALG Settings

icmp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	icmp
Element URI	/axapi/v3/fw/alg/icmp
Element Attributes	icmp_attributes
Partition Visibility	shared
Schema	`icmp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/icmp

icmp attributes

```
POST /axapi/v3/fw/alg/icmp
Payload:
{
    "icmp": {
        "disable": "disable"
    }
}
```

Get Object

GET

/axapi/v3/fw/alg/icmp

icmp attributes

```
GET /axapi/v3/fw/alg/icmp
Reponse:
{
    "icmp": {
        "disable": "disable",
        "uuid": "6b789474-08e1-11f0-a952-c3be1c247dd7",
        "a10-url": "/axapi/v3/fw/alg/icmp"
    }
}
```

Modify Object

POST

/axapi/v3/fw/alg/icmp

icmp attributes

Replace Object

PUT

/axapi/v3/fw/alg/icmp

icmp attributes

```
PUT /axapi/v3/fw/alg/icmp
Payload:
{
    "icmp": {
        "disable": "disable"
```

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```
    }
}
```

Delete Object

DELETE

/axapi/v3/fw/alg/icmp

icmp attributes

```
DELETE /axapi/v3/fw/alg/icmp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

icmp attributes

disable

Description 'disable': Disable ICMP ALG which allows ICMP errors to pass the firewall;

Type: string

Supported Values: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.53.10 fw alg pptp

Change Firewall PPTP ALG Settings

pptp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pptp
Element URI	/axapi/v3/fw/alg/pptp
Element Attributes	pptp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/fw/alg/pptp/stats
Schema	`pptp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/pptp

pptp attributes

```
POST /axapi/v3/fw/alg/pptp
Payload:
{
    "pptp": {
        "default-port-disable": "default-port-disable"
    }
}
```

Get Object

GET

/axapi/v3/fw/alg/pptp

pptp attributes

```
GET /axapi/v3/fw/alg/pptp
Reponse:
{
    "pptp": {
        "default-port-disable": "default-port-disable",
        "uuid": "46252b22-08de-11f0-8baa-c3be1c247dd7",
        "a10-url": "/axapi/v3/fw/alg/pptp"
    }
}
```

Modify Object

POST

/axapi/v3/fw/alg/pptp

pptp attributes

Replace Object

PUT

/axapi/v3/fw/alg/pptp

pptp attributes

```
PUT /axapi/v3/fw/alg/pptp
Payload:
{
    "pptp": {
        "default-port-disable": "default-port-disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/fw/alg/pptp

pptp attributes

```
DELETE /axapi/v3/fw/alg/pptp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

pptp attributes

default-port-disable

Description 'default-port-disable': Disable PPTP ALG default port 1723;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'calls-established': Calls Established; 'call-req-pns-call-id-mismatch': Call ID Mismatch on Call Request; 'call-reply-pns-call-id-mismatch': Call ID Mismatch on Call Reply; 'gre-session-created': GRE Session Created; 'gre-session-freed': GRE Session Freed; 'call-req-retransmit': Call Request Retransmit; 'call-req-new': Call Request New; 'call-req-ext-alloc-failure': Call Request Ext Alloc Failure; 'call-reply-call-id-unknown': Call Reply Unknown Client Call ID; 'call-reply-retransmit': Call Reply Retransmit; 'call-reply-ext-ext-alloc-failure': Call Request Ext Alloc Failure; 'smp-app-type-mismatch': SMP App Type Mismatch; 'smp-client-call-id-mismatch': SMP Client Call ID Mismatch; 'smp-sessions-created': SMP Session Created; 'smp-sessions-freed': SMP Session Freed; 'smp-alloc-failure': SMP Session Alloc Failure; 'gre-conn-creation-failure': GRE Conn Alloc Failure; 'gre-conn-ext-creation-failure': GRE Conn Ext Alloc Failure; 'gre-no-fwd-route': GRE No Fwd Route; 'gre-no-rev-route': GRE No Rev Route; 'gre-no-control-conn': GRE No Control Conn; 'gre-conn-already-exists': GRE Conn Already Exists; 'gre-free-no-ext': GRE Free No Ext; 'gre-free-no-smp': GRE Free No SMP; 'gre-free-smp-app-type-mismatch': GRE Free SMP App Type Mismatch; 'control-freed': Control Session Freed; 'control-free-no-ext': Control Free No Ext; 'control-free-no-smp': Control Free No SMP; 'control-free-smp-app-type-mismatch': Control Free SMP App Type Mismatch;

Type: string

Supported Values: all, calls-established, call-req-pns-call-id-mismatch, call-reply-pns-call-id-mismatch, gre-session-created, gre-session-freed, call-req-retransmit, call-req-new, call-req-ext-alloc-failure, call-reply-call-id-unknown, call-reply-retransmit, call-reply-ext-ext-alloc-failure, smp-app-type-mismatch, smp-client-call-id-mismatch, smp-sessions-created, smp-sessions-freed, smp-alloc-failure, gre-conn-creation-failure, gre-conn-ext-creation-failure, gre-no-fwd-route, gre-no-rev-route, gre-no-control-conn, gre-conn-already-exists, gre-free-no-ext, gre-free-no-smp, gre-free-smp-app-type-mismatch, control-freed, control-free-no-ext, control-free-no-smp, control-free-smp-app-type-mismatch

2.53.11 fw alg pptp stats

Statistics for the object pptp

pptp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	pptp
Element URI	/axapi/v3/fw/alg/pptp/stats
Element Attributes	pptp_attributes
Partition Visibility	None
Schema	`pptp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/pptp/stats

pptp attributes

Get Object

GET

/axapi/v3/fw/alg/pptp/stats

pptp attributes

Modify Object

POST

/axapi/v3/fw/alg/pptp/stats

pptp attributes

Replace Object

PUT

/axapi/v3/fw/alg/pptp/stats

pptp attributes

Delete Object

DELETE

/axapi/v3/fw/alg/pptp/stats

pptp attributes

pptp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

call-reply-pns-call-id-mismatch

Description Call ID Mismatch on Call Reply

Type: number

Format: counter

call-req-pns-call-id-mismatch

Description Call ID Mismatch on Call Request

Type: number

Format: counter

calls-established

Description Calls Established

Type: number

Format: counter

gre-session-created

Description GRE Session Created

Type: number

Format: counter

gre-session-freed

Description GRE Session Freed

Type: number

Format: counter

2.53.12 fw alg rtsp

Change Firewall RTSP ALG Settings

rtsp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rtsp
Element URI	/axapi/v3/fw/alg/rtsp
Element Attributes	rtsp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/fw/alg/rtsp/stats
Schema	`rtsp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/rtsp

rtsp attributes

```
POST /axapi/v3/fw/alg/rtsp
Payload:
{
```

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```
    "rtsp": {
        "default-port-disable": "default-port-disable"
    }
}
```

Get Object

GET

/axapi/v3/fw/alg/rtsp

rtsp attributes

```
GET /axapi/v3/fw/alg/rtsp
Reponse:
{
    "rtsp": {
        "default-port-disable": "default-port-disable",
        "uuid": "46252a82-08de-11f0-8baa-c3be1c247dd7",
        "a10-url": "/axapi/v3/fw/alg/rtsp"
    }
}
```

Modify Object

POST

/axapi/v3/fw/alg/rtsp

rtsp attributes

Replace Object

PUT

/axapi/v3/fw/alg/rtsp

rtsp attributes

```
PUT /axapi/v3/fw/alg/rtsp
Payload:
{
    "rtsp": {
        "default-port-disable": "default-port-disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/fw/alg/rtsp

rtsp attributes

```
DELETE /axapi/v3/fw/alg/rtsp
```

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```
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

rtsp attributes

default-port-disable

Description 'default-port-disable': Disable RTSP ALG default port 554;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'transport-inserted': Transport Created; 'transport-freed': Transport Freed; 'transport-alloc-failure': Transport Alloc Failure; 'data-session-created': Data Session Created; 'data-session-freed': Data Session Freed; 'ext-creation-failure': Extension Creation Failure; 'transport-add-to-ext': Transport Added to Extension; 'transport-removed-from-ext': Transport Removed from Extension; 'transport-too-many': Too Many Transports for Control Conn; 'transport-already-in-ext': Transport Already in Extension; 'transport-exists': Transport Already Exists; 'transport-link-ext-failure-control': Transport Link to Extension Failure Control; 'transport-link-ext-data': Transport Link to Extension Data; 'transport-link-ext-failure-data': Transport Link to Extension Failure Data; 'transport-inserted-shadow': Transport Inserted Shadow; 'transport-creation-race': Transport Create Race; 'transport-alloc-failure-shadow': Transport Alloc Failure Shadow; 'transport-put-in-del-q': Transport Put in Delete Queue; 'transport-freed-shadow': Transport Freed Shadow; 'transport-acquired-from-control': Transport Acquired Control; 'transport-found-from-prev-control': Transport

Found From Prev Control; 'transport-acquire-failure-from-control': Transport Acquire Failure Control; 'transport-released-from-control': Transport Released Control; 'transport-double-release-from-control': Transport Double Release Control; 'transport-acquired-from-data': Transport Acquired Data; 'transport-acquire-failure-from-data': Transport Acquire Failure Data; 'transport-released-from-data': Transport Released Data; 'transport-double-release-from-data': Transport Double Release Data; 'transport-retry-lookup-on-data-free': Transport Retry Lookup Data; 'transport-not-found-on-data-free': Transport Not Found Data; 'data-session-created-shadow': Data Session Created Shadow; 'data-session-freed-shadow': Data Session Freed Shadow; 'ha-control-ext-creation-failure': HA Control Extension Creation Failure; 'ha-control-session-created': HA Control Session Created; 'ha-data-session-created': HA Data Session Created;

Type: string

Supported Values: all, transport-inserted, transport-freed, transport-alloc-failure, data-session-created, data-session-freed, ext-creation-failure, transport-add-to-ext, transport-removed-from-ext, transport-too-many, transport-already-in-ext, transport-exists, transport-link-ext-failure-control, transport-link-ext-data, transport-link-ext-failure-data, transport-inserted-shadow, transport-creation-race, transport-alloc-failure-shadow, transport-put-in-del-q, transport-freed-shadow, transport-acquired-from-control, transport-found-from-prev-control, transport-acquire-failure-from-control, transport-released-from-control, transport-double-release-from-control, transport-acquired-from-data, transport-acquire-failure-from-data, transport-released-from-data, transport-double-release-from-data, transport-retry-lookup-on-data-free, transport-not-found-on-data-free, data-session-created-shadow, data-session-freed-shadow, ha-control-ext-creation-failure, ha-control-session-created, ha-data-session-created

2.53.13 fw alg rtsp stats

Statistics for the object rtsp

rtsp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	rtsp
Element URI	/axapi/v3/fw/alg/rtsp/stats
Element Attributes	rtsp_attributes
Partition Visibility	None
Schema	`rtsp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/rtsp/stats

rtsp attributes

Get Object

GET

/axapi/v3/fw/alg/rtsp/stats

rtsp attributes

Modify Object

POST

/axapi/v3/fw/alg/rtsp/stats

rtsp attributes

Replace Object

PUT

/axapi/v3/fw/alg/rtsp/stats

rtsp attributes

Delete Object

DELETE

/axapi/v3/fw/alg/rtsp/stats

rtsp attributes

rtsp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

data-session-created

Description Data Session Created

Type: number

Format: counter

data-session-freed

Description Data Session Freed

Type: number

Format: counter

transport-alloc-failure

Description Transport Alloc Failure

Type: number

Format: counter

transport-freed

Description Transport Freed

Type: number

Format: counter

transport-inserted

Description Transport Created

Type: number

Format: counter

2.53.14 fw alg sctp

Change Firewall SCTP ALG Settings

sctp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sctp
Element URI	/axapi/v3/fw/alg/sctp
Element Attributes	sctp_attributes
Partition Visibility	shared
Schema	`sctp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/sctp

sctp attributes

```
POST /axapi/v3/fw/alg/sctp
Payload:
{
    "sctp": {
        "action": "disable"
    }
}
```

Get Object

GET

/axapi/v3/fw/alg/sctp

sctp attributes

```
GET /axapi/v3/fw/alg/sctp
Reponse:
{
    "sctp": {
        "action": "disable",
        "uuid": "d4c3adf6-08e1-11f0-a952-c3be1c247dd7",
        "a10-url": "/axapi/v3/fw/alg/sctp"
    }
}
```

Modify Object

POST

/axapi/v3/fw/alg/sctp

sctp attributes

Replace Object

PUT

/axapi/v3/fw/alg/sctp

sctp attributes

```
PUT /axapi/v3/fw/alg/sctp
Payload:
{
    "sctp": {
        "action": "disable"
    }
}
```

sctp attributes

action

Description 'disable': disable; 'enable': enable;

Type: string

Supported Values: disable, enable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.53.15 fw alg sip

Change Firewall SIP ALG Settings

sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sip
Element URI	/axapi/v3/fw/alg/sip
Element Attributes	sip_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/fw/alg/sip/stats
Schema	`sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/sip

sip attributes

```
POST /axapi/v3/fw/alg/sip
Payload:
{
    "sip": {
        "default-port-disable": "default-port-disable"
    }
}
```

Get Object

GET

/axapi/v3/fw/alg/sip

sip attributes

```
GET /axapi/v3/fw/alg/sip
Reponse:
{
    "sip": {
        "default-port-disable": "default-port-disable",
        "uuid": "46252bc2-08de-11f0-8baa-c3be1c247dd7",
        "a10-url": "/axapi/v3/fw/alg/sip"
    }
}
```

Modify Object

POST

/axapi/v3/fw/alg/sip

sip attributes

Replace Object

PUT

/axapi/v3/fw/alg/sip

sip attributes

```
PUT /axapi/v3/fw/alg/sip
Payload:
{
    "sip": {
        "default-port-disable": "default-port-disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/fw/alg/sip

sip attributes

```
DELETE /axapi/v3/fw/alg/sip
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

sip attributes

default-port-disable

Description 'default-port-disable': Disable SIP ALG default port 5060;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'stat-request': Request Received; 'stat-response': Response Received; 'method-register': Method REGISTER; 'method-invite': Method INVITE; 'method-ack': Method ACK; 'method-cancel': Method CANCEL; 'method-bye': Method BYE; 'method-options': Method OPTIONS; 'method-prack': Method PRACK; 'method-subscribe': Method SUBSCRIBE; 'method-notify': Method NOTIFY; 'method-publish': Method PUBLISH; 'method-info': Method INFO; 'method-refer': Method REFER; 'method-message': Method MESSAGE; 'method-update': Method UPDATE; 'method-unknown': Method Unknown; 'parse-error': Message Parse Error; 'keep-alive': Keep Alive; 'contact-error': Contact Process Error; 'sdp-error': SDP Process Error; 'rtp-port-no-op': RTP Port No Op; 'rtp-rtcp-port-success': RTP RTCP Port Success; 'rtp-port-failure': RTP Port Failure; 'rtcp-port-failure': RTCP Port Failure; 'contact-port-no-op': Contact Port No Op; 'contact-port-success': Contact Port Success; 'contact-port-failure': Contact Port Failure; 'contact-new': Contact Alloc; 'contact-alloc-failure': Contact Alloc Failure; 'contact-eim': Contact EIM; 'contact-eim-set': Contact EIM Set; 'rtp-new': RTP Alloc; 'rtp-alloc-failure': RTP Alloc Failure; 'rtp-eim': RTP EIM; 'helper-found': SMP Helper Conn Found; 'helper-created': SMP Helper Conn Created; 'helper-deleted': SMP Helper Conn Already Deleted; 'helper-freed': SMP Helper Conn Freed; 'helper-failure': SMP Helper Failure;

Type: string

Supported Values: all, stat-request, stat-response, method-register, method-invite, method-ack, method-cancel, method-bye, method-options, method-prack, method-subscribe, method-notify, method-publish, method-info, method-refer, method-message, method-update, method-unknown, parse-error, keep-alive, contact-error, sdp-error, rtp-port-no-op, rtp-rtcp-port-success, rtp-port-failure, rtcp-port-failure, contact-port-no-op, contact-port-success, contact-port-failure, contact-new, contact-alloc-failure, contact-eim, contact-eim-set, rtp-new, rtp-alloc-failure, rtp-eim, helper-found, helper-created, helper-deleted, helper-freed, helper-failure

2.53.16 fw alg sip stats

Statistics for the object sip

sip Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	sip
Element URI	/axapi/v3/fw/alg/sip/stats
Element Attributes	sip_attributes
Partition Visibility	None
Schema	`sip schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/sip/stats

sip attributes

Get Object

GET

/axapi/v3/fw/alg/sip/stats

sip attributes

Modify Object

POST

/axapi/v3/fw/alg/sip/stats

sip attributes

Replace Object

PUT

/axapi/v3/fw/alg/sip/stats

sip attributes

Delete Object

DELETE

/axapi/v3/fw/alg/sip/stats

sip attributes

sip attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

method-ack

Description Method ACK

Type: number

Format: counter

method-bye

Description Method BYE

Type: number

Format: counter

method-cancel

Description Method CANCEL

Type: number

Format: counter

method-info

Description Method INFO

Type: number

Format: counter

method-invite

Description Method INVITE

Type: number

Format: counter

method-message

Description Method MESSAGE

Type: number

Format: counter

method-notify

Description Method NOTIFY

Type: number

Format: counter

method-options

Description Method OPTIONS

Type: number

Format: counter

method-prack

Description Method PRACK

Type: number

Format: counter

method-publish

Description Method PUBLISH

Type: number

Format: counter

method-refer

Description Method REFER

Type: number

Format: counter

method-register

Description Method REGISTER

Type: number

Format: counter

method-subscribe

Description Method SUBSCRIBE

Type: number

Format: counter

method-unknown

Description Method Unknown

Type: number

Format: counter

method-update

Description Method UPDATE

Type: number

Format: counter

stat-request

Description Request Received

Type: number

Format: counter

stat-response

Description Response Received

Type: number

Format: counter

2.53.17 fw alg tftp

Change Firewall TFTP ALG Settings

tftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tftp
Element URI	/axapi/v3/fw/alg/tftp
Element Attributes	tftp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/fw/alg/tftp/stats
Schema	`tftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/tftp

tftp attributes

```
POST /axapi/v3/fw/alg/tftp
Payload:
{
    "tftp": {
        "default-port-disable": "default-port-disable"
    }
}
```

Get Object

GET

/axapi/v3/fw/alg/tftp

tftp attributes

```
GET /axapi/v3/fw/alg/tftp
Reponse:
{
    "tftp": {
        "default-port-disable": "default-port-disable",
        "uuid": "462529ec-08de-11f0-8baa-c3be1c247dd7",
        "a10-url": "/axapi/v3/fw/alg/tftp"
    }
}
```

Modify Object

POST

/axapi/v3/fw/alg/tftp

tftp attributes

Replace Object

PUT

/axapi/v3/fw/alg/tftp

tftp attributes

```
PUT /axapi/v3/fw/alg/tftp
Payload:
{
    "tftp": {
        "default-port-disable": "default-port-disable"
    }
}
```

Delete Object

DELETE

/axapi/v3/fw/alg/tftp

tftp attributes

```
DELETE /axapi/v3/fw/alg/tftp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

tftp attributes

default-port-disable

Description 'default-port-disable': Disable TFTP ALG default port 69;

Type: string

Supported Values: default-port-disable

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'session-created': TFTP Client Sessions Created; 'helper-created': TFTP Helper Sessions created; 'helper-freed': TFTP Helper Sessions freed; 'helper-freed-used': TFTP Helper Sessions freed used; 'helper-freed-unused': TFTP Helper Sessions freed unused; 'helper-already-used': TFTP Helper Session already used; 'helper-in-rml': TFTP Helper Session in Remove List;

Type: string

Supported Values: all, session-created, helper-created, helper-freed, helper-freed-used, helper-freed-unused, helper-already-used, helper-in-rml

2.53.18 fw alg tftp stats

Statistics for the object tftp

tftp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	tftp
Element URI	/axapi/v3/fw/alg/tftp/stats
Element Attributes	tftp_attributes
Partition Visibility	None
Schema	`tftp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/alg/tftp/stats

tftp attributes

Get Object

GET

/axapi/v3/fw/alg/tftp/stats

tftp attributes

Modify Object

POST

/axapi/v3/fw/alg/tftp/stats

tftp attributes

Replace Object

PUT

/axapi/v3/fw/alg/tftp/stats

tftp attributes

Delete Object

DELETE

/axapi/v3/fw/alg/tftp/stats

tftp attributes

tftp attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

session-created

Description TFTP Client Sessions Created

Type: number

Format: counter

2.53.19 fw app

Show application firewall supported protocols

app Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	app
Element URI	/axapi/v3/fw/app
Element Attributes	app_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/fw/app/stats
Operational Data URI	/axapi/v3/fw/app/oper
Schema	`app schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/app

app attributes

```
POST /axapi/v3/fw/app
Payload:
{
    "app": {
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ]
    }
}
```

Get Object

GET

/axapi/v3/fw/app

app attributes

```
GET /axapi/v3/fw/app
Reponse:
{
    "app": {
        "uuid": "4625232a-08de-11f0-8baa-c3be1c247dd7",
        "sampling-enable": [
            {
                "counters1": "all"
            }
        ],
        "a10-url": "/axapi/v3/fw/app"
    }
}
```

Modify Object

POST

/axapi/v3/fw/app

app attributes

app attributes

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'dummy': Entry for a10countergen;

Type: string

Supported Values: all, dummy

2.53.20 fw app oper

Operational Status for the object app

app Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	app
Element URI	/axapi/v3/fw/app/oper
Element Attributes	app_attributes
Partition Visibility	None
Schema	`app schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/app/oper

app attributes

Get Object

GET

/axapi/v3/fw/app/oper

app attributes

Modify Object

POST

/axapi/v3/fw/app/oper

app attributes

Replace Object

PUT

/axapi/v3/fw/app/oper

app attributes

Delete Object

DELETE

/axapi/v3/fw/app/oper

app attributes

app attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

category

Description

Type: string

contains

Description

Type: string

group-list

Type: List

related

Description

Type: string

oper_group-list

Specification	Value
Type	*list*
Block object keys	

app-desc

Description

Type: string

app-name

Description

Type: string

category-name

Description

Type: string

2.53.21 fw app stats

Statistics for the object app

app Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	app
Element URI	/axapi/v3/fw/app/stats
Element Attributes	app_attributes
Partition Visibility	None
Schema	`app schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/app/stats

app attributes

Get Object

GET

/axapi/v3/fw/app/stats

app attributes

Modify Object

POST

/axapi/v3/fw/app/stats

app attributes

app attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

dummy

Description Entry for a10countergen

Type: number

Format: counter

2.53.22 fw clear-session-filter

Enable clear L4 session filter for fw (Default: Disable)

clear-session-filter Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	clear-session-filter
Element URI	/axapi/v3/fw/clear-session-filter
Element Attributes	clear-session-filter_attributes
Partition Visibility	shared
Schema	`clear-session-filter schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/clear-session-filter

clear-session-filter attributes

Get Object

GET

/axapi/v3/fw/clear-session-filter

clear-session-filter attributes

Modify Object

POST

/axapi/v3/fw/clear-session-filter

clear-session-filter attributes

Replace Object

PUT

/axapi/v3/fw/clear-session-filter

clear-session-filter attributes

Delete Object

DELETE

/axapi/v3/fw/clear-session-filter

clear-session-filter attributes

clear-session-filter attributes

status

Description 'disable': Disable clear L4 session filter for fw (Default: disabled); 'enable': Enable clear L4 session filter for fw;

Type: string

Supported Values: disable, enable

Default: disable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.53.23 fw client

Configure the inside list

client Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	client
Element URI	/axapi/v3/fw/client
Element Attributes	client_attributes
Partition Visibility	shared
Schema	`client schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/client

client attributes

```
POST /axapi/v3/fw/client
Payload:
{
    "client": {
        "type": "ipv4",
        "name": "a"
    }
}
```

Get Object

GET

/axapi/v3/fw/client

client attributes

Modify Object

POST

/axapi/v3/fw/client

client attributes

Replace Object

PUT

/axapi/v3/fw/client

client attributes

Delete Object

DELETE

/axapi/v3/fw/client

client attributes

client attributes

name

Description Class List (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

type

Description 'ipv4': Make class-list type IPv4; 'ipv6': Make class-list type IPv6;

Type: string

Supported Values: ipv4, ipv6

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.53.24 fw ddos-protection

Configure FW DDoS Protection

ddos-protection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ddos-protection
Element URI	/axapi/v3/fw/ddos-protection
Element Attributes	ddos-protection_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/fw/ddos-protection/stats
Operational Data URI	/axapi/v3/fw/ddos-protection/oper
Schema	`ddos-protection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/ddos-protection

ddos-protection attributes

```
POST /axapi/v3/fw/ddos-protection
Payload:
{
    "ddos-protection": {
        "dynamic-blacklist": {
            "dynamic-blacklist-action": "enable",
            "dir": "inbound",
            "timeout": 1
        }
    }
}
```

Get Object

GET

/axapi/v3/fw/ddos-protection

ddos-protection attributes

```
GET /axapi/v3/fw/ddos-protection
Reponse:
{
    "ddos-protection": {
        "dynamic-blacklist": {
            "dynamic-blacklist-action": "enable",
            "dir": "inbound",
            "timeout": 1
        },
        "logging": {
            "logging-action": "enable",
            "enable-action": "local"
        },
        "action": {
            "action-type": "drop",
            "expiration-route": 60
        },
        "uuid": "462570d2-08de-11f0-8baa-c3be1c247dd7",
        "a10-url": "/axapi/v3/fw/ddos-protection"
    }
}
```

Modify Object

POST

/axapi/v3/fw/ddos-protection

ddos-protection attributes

Delete Object

DELETE

/axapi/v3/fw/ddos-protection

ddos-protection attributes

```
DELETE /axapi/v3/fw/ddos-protection
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

ddos-protection attributes

action

Description: action is a **JSON Block**. Please see below for *action*

Type: Object

dynamic-blacklist

Description: dynamic-blacklist is a **JSON Block**. Please see below for *dynamic-blacklist*

Type: Object

logging

Description: logging is a **JSON Block**. Please see below for *logging*

Type: Object

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

action

Specification	Value
Type	*object*

action-type

Description 'drop': Log, and drop all packets (default); 'redistribute-route': Log, Drop, and Notify upstream router to reroute the packets;

Type: string

Supported Values: drop, redistribute-route

Default: drop

expiration

Description To specify time in minutes to revert the action (Expiration time, in minutes (default is 5 mins))

Type: number

Range: 2-144000

Default: 5

expiration-route

Description To specify time in minutes to revert the action (Expiration time, in minutes (default is 60 mins))

Type: number

Range: 2-144000

Default: 60

forward

Description Forward traffic with rate-limiting

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

remove-wait-timer

Description Max time to wait before removing IP from blackhole (Max value in seconds (default 300))

Type: number

Range: 0-300

Default: 300

route-map

Description Route map name

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

timer-multiply-max

Description To specify max value of timer multiplier for attacks lasted long time (Max value of timer multiplier (default is 6))

Type: number

Range: 1-100

Default: 6

logging

Specification	Value
Type	*object*

enable-action

Description 'local': Enable local logs only; 'remote': Enable logging to remote server & IP-FIX; 'both': Enable both local & remote logs;

Type: string

Supported Values: local, remote, both

Default: local

logging-action

Description 'enable': enable FW DDoS protection logging; 'disable': Disable both local & remote FW DDoS protection logging;

Type: string

Supported Values: enable, disable

Default: enable

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'ddos_entries_too_many': Too many DDOS entries; 'ddos_entry_added': DDOS entry added; 'ddos_entry_removed': DDOS entry removed; 'ddos_entry_added_to_bgp': DDoS Entry added to BGP; 'ddos_entry_removed_from_bgp': DDoS Entry Removed from BGP; 'ddos_entry_add_to_bgp_failure': DDoS Entry BGP add failures; 'ddos_entry_remove_from_bgp_failure': DDOS entry BGP remove failures; 'ddos_packet_dropped': DDOS Packet Drop;

Type: string

Supported Values: all, ddos_entries_too_many, ddos_entry_added, ddos_entry_removed, ddos_entry_added_to_bgp, ddos_entry_removed_from_bgp, ddos_entry_add_to_bgp_failure, ddos_entry_remove_from_bgp_failure, ddos_packet_dropped

dynamic-blacklist

Specification	Value
Type	*object*

cpu-threshold

Description Core-level CPU usage threshold for dynamic blacklist creation (Core-level CPU usage threshold for dynamic blacklist creation (default is 60))

Type: number

Range: 0-80

Default: 60

dir

Description 'inbound': enable in inbound direction; 'outbound': enable in outbound direction; 'both': enable in both directions;

Type: string

Supported Values: inbound, outbound, both

Default: both

dynamic-blacklist-action

Description 'enable': Enable protection against volumetric attacks using dynamic blacklist; 'disable': Disable protection against volumetric attacks using dynamic blacklist;

Type: string

Supported Values: enable, disable

Default: disable

timeout

Description Timeout value (in seconds) for dynamic blacklist (Timeout value (in seconds) for dynamic blacklist(default is 5 seconds))

Type: number

Range: 1-30

Default: 5

2.53.25 fw ddos-protection oper

Operational Status for the object ddos-protection

ddos-protection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ddos-protection
Element URI	/axapi/v3/fw/ddos-protection/oper
Element Attributes	ddos-protection_attributes
Partition Visibility	None
Schema	`ddos-protection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/ddos-protection/oper

ddos-protection attributes

Get Object

GET

/axapi/v3/fw/ddos-protection/oper

ddos-protection attributes

Modify Object

POST

/axapi/v3/fw/ddos-protection/oper

ddos-protection attributes

Replace Object

PUT

/axapi/v3/fw/ddos-protection/oper

ddos-protection attributes

Delete Object

DELETE

/axapi/v3/fw/ddos-protection/oper

ddos-protection attributes

ddos-protection attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

details

Description

Type: boolean

Supported Values: true, false, 1, 0

entries-list

Type: List

v4-address

Description

Type: string

Format: ipv4-address

v4-netmask

Description

Type: string

Format: ipv4-netmask-brief

v6-prefix

Description

Type: string

Format: ipv6-address-plen

oper_entries-list

Specification	Value
Type	*list*
Block object keys	

expiration

Description

Type: number

hash

Description

Type: number

hints

Description

Type: string

ip

Description

Type: string

lid

Description

Type: number

pps

Description

Type: number

prefix

Description

Type: number

rate

Description

Type: number

rule-name

Description

Type: string

2.53.26 fw ddos-protection stats

Statistics for the object ddos-protection

ddos-protection Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	ddos-protection
Element URI	/axapi/v3/fw/ddos-protection/stats
Element Attributes	ddos-protection_attributes
Partition Visibility	None
Schema	`ddos-protection schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/ddos-protection/stats

ddos-protection attributes

Get Object

GET

/axapi/v3/fw/ddos-protection/stats

ddos-protection attributes

Modify Object

POST

/axapi/v3/fw/ddos-protection/stats

ddos-protection attributes

Delete Object

DELETE

/axapi/v3/fw/ddos-protection/stats

ddos-protection attributes

ddos-protection attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

ddos_entries_too_many

Description Too many DDOS entries

Type: number

Format: counter

ddos_entry_add_to_bgp_failure

Description DDoS Entry BGP add failures

Type: number

Format: counter

ddos_entry_added

Description DDOS entry added

Type: number

Format: counter

ddos_entry_added_to_bgp

Description DDoS Entry added to BGP

Type: number

Format: counter

ddos_entry_remove_from_bgp_failure

Description DDOS entry BGP remove failures

Type: number

Format: counter

ddos_entry_removed

Description DDOS entry removed

Type: number

Format: counter

ddos_entry_removed_from_bgp

Description DDoS Entry Removed from BGP

Type: number

Format: counter

ddos_packet_dropped

Description DDOS Packet Drop

Type: number

Format: counter

2.53.27 fw fast-forwarding

Fast packets forwarding for established CGN/FW sessions

fast-forwarding Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	fast-forwarding
Element URI	/axapi/v3/fw/fast-forwarding
Element Attributes	fast-forwarding_attributes
Partition Visibility	shared
Schema	`fast-forwarding schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/fast-forwarding

fast-forwarding attributes

Get Object

GET

/axapi/v3/fw/fast-forwarding

fast-forwarding attributes

Modify Object

POST

/axapi/v3/fw/fast-forwarding

fast-forwarding attributes

Replace Object

PUT

/axapi/v3/fw/fast-forwarding

fast-forwarding attributes

Delete Object

DELETE

/axapi/v3/fw/fast-forwarding

fast-forwarding attributes

fast-forwarding attributes

toggle

Description 'enable': Enable fast forwarding path; 'disable': Disable fast forwarding path;

Type: string

Supported Values: enable, disable

Default: enable

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.53.28 fw full-cone-session

Full Cone Sessions

full-cone-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	full-cone-session
Element URI	/axapi/v3/fw/full-cone-session
Element Attributes	full-cone-session_attributes
Partition Visibility	shared
Operational Data URI	/axapi/v3/fw/full-cone-session/oper
Schema	`full-cone-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/full-cone-session

full-cone-session attributes

Get Object

GET

/axapi/v3/fw/full-cone-session

full-cone-session attributes

Modify Object

POST

/axapi/v3/fw/full-cone-session

full-cone-session attributes

Replace Object

PUT

/axapi/v3/fw/full-cone-session

full-cone-session attributes

Delete Object

DELETE

/axapi/v3/fw/full-cone-session

full-cone-session attributes

full-cone-session attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.53.29 fw full-cone-session oper

Operational Status for the object full-cone-session

full-cone-session Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	full-cone-session
Element URI	/axapi/v3/fw/full-cone-session/oper
Element Attributes	full-cone-session_attributes
Partition Visibility	None
Schema	`full-cone-session schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/full-cone-session/oper

full-cone-session attributes

Get Object

GET

/axapi/v3/fw/full-cone-session/oper

full-cone-session attributes

Modify Object

POST

/axapi/v3/fw/full-cone-session/oper

full-cone-session attributes

Replace Object

PUT

/axapi/v3/fw/full-cone-session/oper

full-cone-session attributes

Delete Object

DELETE

/axapi/v3/fw/full-cone-session/oper

full-cone-session attributes

full-cone-session attributes

oper

Description: oper is a **JSON Block**. Please see below for *oper*

Type: Object

oper

Specification	Value
Type	*object*

ipv4-addr

Description

Type: string

Format: ipv4-address

ipv6-addr

Description

Type: string

Format: ipv6-address

session-list

Type: List

total

Description

Type: number

oper_session-list

Specification	Value
Type	*list*
Block object keys	

age

Description

Type: string

cpu

Description

Type: number

inbound

Description

Type: number

inside-address

Description

Type: string

inside-port

Description

Type: number

outbound

Description

Type: number

protocol

Description

Type: string

2.53.30 fw global

Configure firewall parameters

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/fw/global
Element Attributes	global_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/fw/global/stats
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/global

global attributes

```
POST /axapi/v3/fw/global
Payload:
{
    "global": {
        "disable-ip-fw-sessions": 1
    }
}
```

Get Object

GET

/axapi/v3/fw/global

global attributes

```
GET /axapi/v3/fw/global
Reponse:
{
    "global": {
        "disable-ip-fw-sessions": 1,
        "disable-undetermined-rule-logs": 0,
        "alg-processing": "honor-rule-set",
        "natip-ddos-protection": "enable",
        "listen-on-port-timeout": 2,
        "inbound-refresh-full-cone": "enable",
        "inbound-refresh": "enable",
        "respond-to-user-mac": 0,
        "disable-application-metrics": 0,
        "allow-non-syn-session-create": 0,
        "uuid": "462525d2-08de-11f0-8baa-c3be1c247dd7",
        "a10-url": "/axapi/v3/fw/global"
    }
}
```

Modify Object

POST

/axapi/v3/fw/global

global attributes

Replace Object

PUT

/axapi/v3/fw/global

global attributes

```
PUT /axapi/v3/fw/global
Payload:
{
    "global": {
```

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```
        "disable-ip-fw-sessions": 0
    }
}
```

Delete Object

DELETE

/axapi/v3/fw/global

global attributes

```
DELETE /axapi/v3/fw/global
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

global attributes

alg-processing

Description 'honor-rule-set': Honors firewall rule-sets (Default); 'override-rule-set': Override firewall rule-sets;

Type: string

Supported Values: honor-rule-set, override-rule-set

Default: honor-rule-set

allow-non-syn-session-create

Description Allow TCP non-syn packets to trigger session creation

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-app-list

Type: List

disable-application-metrics

Description Disable exporting application protocol/category statistics to Harmony Controller

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-ip-fw-sessions

Description disable create sessions for non TCP/UDP/ICMP

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

disable-undetermined-rule-logs

Description disable logs with undetermined rules

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

dsr-mode-support

Description 'ipv4': support dsr for ipv4 traffic; 'ipv6': support dsr for ipv6 traffic; 'all': support dsr for both ipv4 and ipv6;

Type: string

Supported Values: ipv4, ipv6, all

extended-matching

Description 'disable': Disable extended matching;

Type: string

Supported Values: disable

inbound-refresh

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

inbound-refresh-full-cone

Description 'enable': enable; 'disable': disable;

Type: string

Supported Values: enable, disable

Default: enable

listen-on-port-timeout

Description STUN timeout (default: 2 minutes)

Type: number

Range: 0-60

Default: 2

natip-ddos-protection

Description 'enable': Enable; 'disable': Disable;

Type: string

Supported Values: enable, disable

Default: enable

permit-default-action

Description 'forward': Forward; 'next-service-mode': Service to be applied chosen based on configuration;

Type: string

Supported Values: forward, next-service-mode

respond-to-user-mac

Description Use the user's source MAC for the next hop rather than the routing table (default: off)

Type: boolean

Supported Values: true, false, 1, 0

Default: 0

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

disable-app-list

Specification	Value
Type	*list*
Block object keys	

disable-application-category

Description 'aaa': Protocol/application used for AAA (Authentification, Authorization and Accounting) purposes.; 'adult-content': Adult content protocol/application.; 'advertising': Advertising networks and applications.; 'application-enforcing-tls': Application known to enforce HSTS and thus use of TLS.; 'analytics-and-statistics': User analytics and statistics protocol/application.; 'anonymizers-and-proxies': Traffic-anonymization protocol/application.; 'audio-chat': Protocol/application used for Audio Chat.; 'basic': Covers all protocols required for basic classification, including most networking protocols as well as standard protocols like HTTP.; 'blog': Blogging platform protocol/application.; 'cdn': Protocol/application used for Content-Delivery Networks.; 'certification-authority': Certification Authority for SSL/TLS certificate.; 'chat': Protocol/application used for Text Chat.; 'classified-ads': Protocol/application used for Classified Advertisements.; 'cloud-based-services': SaaS and/or PaaS cloud based services.; 'crowdfunding': Service for funding a project or venture by raising small amounts of money from a large number of people, typically via the Internet.; 'cryptocurrency': Services for mining cryptocurrencies, for example a Crypto Web Browser (an application that mines crypto currency in the background while its user browses the web).; 'database':

Database-specific protocols.; 'disposable-email': Service offering Disposable Email Accounts (DEA). DEA is a technique to share temporary email address between many users.; 'ebook-reader': Services for e-book readers, i.e. connected devices that display electronic books (typically using e-ink displays to reduce glare and eye strain).; 'education': Protocols offering education services and online courses.; 'email': Native email protocol.; 'enterprise': Protocol/application used in an enterprise network.; 'file-management': Protocol/application designed specifically for file management and exchange. This can include bona fide network protocols (like SMB) as well as web/cloud services (like Dropbox).; 'file-transfer': Protocol that offers file transferring as a secondary feature. This typically includes IM, Web-Mail, and other protocols that allow file transfers in addition to their principal function.; 'forum': Online forum protocol/application.; 'gaming': Protocol/application used by games.; 'healthcare': Protocols offering medical services, i.e protocols used in medical environment.; 'instant-messaging-and-multimedia-conferencing': Protocol/application used for Instant Messaging or Multi-Conferencing.; 'internet-of-things': Internet Of Things protocol/application.; 'map-service': Digital Maps service (web site and their related API).; 'mobile': Mobile-specific protocol/application.; 'multimedia-streaming': Protocol/application used for multimedia streaming.; 'networking': Protocol used for (inter) networking purpose.; 'news-portal': Protocol/application used for News Portals.; 'payment-service': Application offering online services for accepting electronic payments by a variety of payment methods (credit card, bank-based payments such as direct debit, bank transfer, etc).; 'peer-to-peer': Protocol/application used for Peer-to-peer purposes.; 'remote-access': Protocol/application used for remote access.; 'scada': SCADA (Supervisory control and data acquisition) protocols, all generations.; 'social-networks': Social networking application.; 'software-update': Auto-update protocol.; 'speedtest': Speedtest application allowing to access quality of Internet connection (upload, download, latency, etc).; 'standards-based': Protocol issued from standardized bodies such as IETF, ITU, IEEE, ETSI, OIF.; 'transportation': Transportation services, for example smartphone applications that allow users to hail a taxi.; 'video-chat': Protocol/application used for Video Chat.; 'voip': Application used for Voice-Over-IP.; 'vpn-tunnels': Protocol/application used for VPN or tunneling purposes.; 'web': Application based on HTTP/HTTPS.; 'web-e-commerce': Protocol/application used for E-commerce websites.; 'web-search-engines': Protocol/application used for Web search portals.; 'web-websites': Protocol/application used for Company Websites.; 'webmails': Web-based e-mail application.; 'web-ext-adult': Web Extension Adult; 'web-ext-auctions': Web Extension Auctions; 'web-ext-blogs': Web Extension Blogs; 'web-ext-business-and-economy': Web Extension Business and Economy; 'web-ext-cdns': Web Extension CDNs; 'web-ext-collaboration': Web Extension Collaboration; 'web-ext-computer-and-internet-info': Web Extension Computer and Internet Info; 'web-ext-computer-and-internet-security': Web Extension Computer and Internet Security; 'web-ext-dating': Web Extension Dating; 'web-ext-educational-institutions': Web Extension Educational Institutions; 'web-ext-entertainment-and-arts': Web Extension Entertainment and Arts; 'web-ext-fashion-and-beauty': Web Extension Fashion and Beauty; 'web-ext-file-share': Web Extension File Share; 'web-ext-financial-services': Web Extension Financial Services; 'web-ext-gambling': Web Extension Gambling; 'web-ext-games': Web Extension Games; 'web-ext-government': Web Extension Government; 'web-ext-health-and-medicine': Web Extension Health and Medicine; 'web-ext-individual-stock-advice-and-tools': Web Extension Individual Stock Advice and Tools; 'web-ext-internet-portals': Web Extension Internet Portals; 'web-ext-job-search': Web Extension Job Search; 'web-ext-local-information': Web Extension Local Information; 'web-ext-malware': Web Extension Malware; 'web-ext-motor-vehicles': Web Extension Motor Vehicles; 'web-ext-music': Web Extension Music; 'web-ext-news': Web Extension News; 'web-ext-p2p': Web Extension P2P; 'web-ext-parked-sites': Web Extension Parked Sites; 'web-ext-proxy-avoid-and-anonymizers': Web Extension Proxy Avoid and Anonymizers; 'web-ext-real-estate': Web Extension Real Estate; 'web-ext-reference-and-research': Web Extension Reference and Research; 'web-ext-search-engines': Web Extension Search Engines; 'web-ext-shopping': Web Extension Shopping; 'web-ext-social-network': Web Extension Social Network; 'web-ext-society': Web Extension Society; 'web-ext-software': Web Extension

Software; 'web-ext-sports': Web Extension Sports; 'web-ext-streaming-media': Web Extension Streaming Media; 'web-ext-training-and-tools': Web Extension Training and Tools; 'web-ext-translation': Web Extension Translation; 'web-ext-travel': Web Extension Travel; 'web-ext-web-advertisements': Web Extension Web Advertisements; 'web-ext-web-based-email': Web Extension Web based Email; 'web-ext-web-hosting': Web Extension Web Hosting; 'web-ext-web-service': Web Extension Web Service;

Type: string

Supported Values: aaa, adult-content, advertising, application-enforcing-tls, analytics-and-statistics, anonymizers-and-proxies, audio-chat, basic, blog, cdn, certification-authority, chat, classified-ads, cloud-based-services, crowdfunding, cryptocurrency, database, disposable-email, ebook-reader, education, email, enterprise, file-management, file-transfer, forum, gaming, healthcare, instant-messaging-and-multimedia-conferencing, internet-of-things, map-service, mobile, multimedia-streaming, networking, news-portal, payment-service, peer-to-peer, remote-access, scada, social-networks, software-update, speedtest, standards-based, transportation, video-chat, voip, vpn-tunnels, web, web-e-commerce, web-search-engines, web-websites, webmails, web-ext-adult, web-ext-auctions, web-ext-blogs, web-ext-business-and-economy, web-ext-cdns, web-ext-collaboration, web-ext-computer-and-internet-info, web-ext-computer-and-internet-security, web-ext-dating, web-ext-educational-institutions, web-ext-entertainment-and-arts, web-ext-fashion-and-beauty, web-ext-file-share, web-ext-financial-services, web-ext-gambling, web-ext-games, web-ext-government, web-ext-health-and-medicine, web-ext-individual-stock-advice-and-tools, web-ext-internet-portals, web-ext-job-search, web-ext-local-information, web-ext-malware, web-ext-motor-vehicles, web-ext-music, web-ext-news, web-ext-p2p, web-ext-parked-sites, web-ext-proxy-avoid-and-anonymizers, web-ext-real-estate, web-ext-reference-and-research, web-ext-search-engines, web-ext-shopping, web-ext-social-network, web-ext-society, web-ext-software, web-ext-sports, web-ext-streaming-media, web-ext-training-and-tools, web-ext-translation, web-ext-travel, web-ext-web-advertisements, web-ext-web-based-email, web-ext-web-hosting, web-ext-web-service

disable-application-protocol

Description Disable specific application protocol

Type: string

Maximum Length: 128 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'tcp_fullcone_created': TCP Full-cone Created; 'tcp_fullcone_freed': TCP Full-cone Freed; 'udp_fullcone_created': UDP Full-cone Created; 'udp_fullcone_freed': UDP Full-cone Freed; 'fullcone_creation_failure': Full-Cone Creation Failure; 'data_session_created': Data Session Created; 'data_session_created_local': Data Session Created Local; 'dyn_blist_sess_sp': Dynamic Blacklist Session (Slowpath); 'data_session_freed': Data Session Freed; 'data_session_freed_local': Data Session Freed Local; 'dyn_blist_sess_created': Dynamic Blacklist Session Created; 'dyn_blist_sess_freed':

Dynamic Blacklist Freed; 'dyn_blist_pkt_drop': Dynamic Blacklist - Packet Drop; 'dyn_blist_pkt_rate_low': Dynamic Blacklist - Pkt Rate Low; 'dyn_blist_pkt_rate_high': Dynamic Blacklist - Pkt Rate High; 'dyn_blist_version_mismatch': Dynamic Blacklist - Version Mismatch; 'dyn_blist_no_active_policy': Dynamic Blacklist - No Active Policy; 'fullcone_in_del_q': Full-cone session found in delete queue; 'fullcone_retry_lookup': Full-cone session retry look-up; 'fullcone_not_found': Full-cone session not found; 'fullcone_overflow_eim': Full-cone Session EIM Overflow; 'fullcone_overflow_eif': Full-cone Session EIF Overflow; 'udp_fullcone_created_shadow': Total UDP Full-cone sessions created; 'tcp_fullcone_created_shadow': Total TCP Full-cone sessions created; 'udp_fullcone_freed_shadow': Total UDP Full-cone sessions freed; 'tcp_fullcone_freed_shadow': Total TCP Full-cone sessions freed; 'fullcone_created': Total Full-cone sessions created; 'fullcone_freed': Total Full-cone sessions freed; 'fullcone_ext_too_many': Fullcone Extension Too Many; 'fullcone_ext_mem_allocated': Fullcone Extension Memory Allocated; 'fullcone_ext_mem_alloc_failure': Full-cone Extension Memory Allocate Failure; 'fullcone_ext_mem_alloc_init_faulure': Fullcone Extension Initialization Failure; 'fullcone_ext_mem_freed': Fullcone Extension Memory Freed; 'fullcone_ext_added': Fullcone Extension Added; 'ha_fullcone_failure': HA Full-cone Session Failure; 'data_session_created_shadow': Shadow Data Sessions Created; 'data_session_created_shadow_local': Shadow Data Sessions Created Local; 'data_session_freed_shadow': Shadow Data Sessions Freed; 'data_session_freed_shadow_local': Shadow Data Sessions Freed Local; 'active_fullcone_session': Total Active Full-cone sessions; 'limit-entry-failure': Limit Entry Creation Failure; 'limit-entry-allocated': Limit Entry Allocated; 'limit-entry-mem-freed': Limit Entry Freed; 'limit-entry-created': Limit Entry Created; 'limit-entry-found': Limit Entry Found; 'limit-entry-not-in-bucket': Limit Entry Not in Bucket; 'limit-entry-marked-deleted': Limit Entry Marked Deleted; 'undetermined-rule-counter': Undetermined rule detected; 'non_syn_pkt_fwd_allowed': Non-SYN pkt forward allowed; 'invalid-lid-drop': Invalid Lid Drop; 'src-session-limit-exceeded': Concurrent Session Limit Exceeded; 'uplink-pps-limit-exceeded': Uplink PPS Limit Exceeded; 'downlink-pps-limit-exceeded': Downlink PPS Limit Exceeded; 'total-pps-limit-exceeded': Total PPS Limit Exceeded; 'uplink-throughput-limit-exceeded': Uplink Throughput Limit Exceeded; 'downlink-throughput-limit-exceeded': Downlink Throughput Limit Exceeded; 'total-throughput-limit-exceeded': Total Throughput Limit Exceeded; 'cps-limit-exceeded': Connections Per Second Limit Exceeded; 'limit-exceeded': Per Second Limit Exceeded (Deprecated); 'limit-entry-per-cpu-mem-allocated': Limit Entry Memory Allocated (Deprecated); 'limit-entry-per-cpu-mem-allocation-failed': Limit Entry Memory Allocation Failed (Deprecated); 'limit-entry-per-cpu-mem-freed': Limit Entry Memory Freed (Deprecated); 'alg_default_port_disable': alg_default_port_disable; 'no_fwd_route': No Forward Route; 'no_rev_route': No Reverse Route; 'no_fwd_l2_dst': No Forward Mac Entry; 'no_rev_l2_dst': No Reverse Mac Entry; 'l2_dst_in_out_same': L2 route to same port as received; 'l2_vlan_changed': L2 forwarding vlan changed after session create; 'urpf_pkt_drop': URPF check packet drop; 'fwd_ingress_packets_tcp': Forward Ingress Packets TCP; 'fwd_egress_packets_tcp': Forward Egress Packets TCP; 'rev_ingress_packets_tcp': Reverse Ingress Packets TCP; 'rev_egress_packets_tcp': Reverse Egress Packets TCP; 'fwd_ingress_bytes_tcp': Forward Ingress Bytes TCP; 'fwd_egress_bytes_tcp': Forward Egress Bytes TCP; 'rev_ingress_bytes_tcp': Reverse Ingress Bytes TCP; 'rev_egress_bytes_tcp': Reverse Egress Bytes TCP; 'fwd_ingress_packets_udp': Forward Ingress Packets UDP; 'fwd_egress_packets_udp': Forward Egress Packets UDP; 'rev_ingress_packets_udp': Reverse Ingress Packets UDP; 'rev_egress_packets_udp': Reverse Egress Packets UDP; 'fwd_ingress_bytes_udp': Forward Ingress Bytes UDP; 'fwd_egress_bytes_udp': Forward Egress Bytes UDP; 'rev_ingress_bytes_udp': Reverse Ingress Bytes UDP; 'rev_egress_bytes_udp': Reverse Egress Bytes UDP; 'fwd_ingress_packets_icmp': Forward Ingress Packets ICMP; 'fwd_egress_packets_icmp': Forward Egress Packets ICMP; 'rev_ingress_packets_icmp': Reverse Ingress Packets ICMP; 'rev_egress_packets_icmp': Reverse Egress Packets ICMP;

'fwd_ingress_bytes_icmp': Forward Ingress Bytes ICMP; 'fwd_egress_bytes_icmp': Forward Egress Bytes ICMP; 'rev_ingress_bytes_icmp': Reverse Ingress Bytes ICMP; 'rev_egress_bytes_icmp': Reverse Egress Bytes ICMP; 'fwd_ingress_packets_others': Forward Ingress Packets OTHERS; 'fwd_egress_packets_others': Forward Egress Packets OTHERS; 'rev_ingress_packets_others': Reverse Ingress Packets OTHERS; 'rev_egress_packets_others': Reverse Egress Packets OTHERS; 'fwd_ingress_bytes_others': Forward Ingress Bytes OTHERS; 'fwd_egress_bytes_others': Forward Egress Bytes OTHERS; 'rev_ingress_bytes_others': Reverse Ingress Bytes OTHERS; 'rev_egress_bytes_others': Reverse Egress Bytes OTHERS; 'fwd_ingress_pkt_size_range1': Forward Ingress Packet size between 0 and 200; 'fwd_ingress_pkt_size_range2': Forward Ingress Packet size between 201 and 800; 'fwd_ingress_pkt_size_range3': Forward Ingress Packet size between 801 and 1550; 'fwd_ingress_pkt_size_range4': Forward Ingress Packet size between 1551 and 9000; 'fwd_egress_pkt_size_range1': Forward Egress Packet size between 0 and 200; 'fwd_egress_pkt_size_range2': Forward Egress Packet size between 201 and 800; 'fwd_egress_pkt_size_range3': Forward Egress Packet size between 801 and 1550; 'fwd_egress_pkt_size_range4': Forward Egress Packet size between 1551 and 9000; 'rev_ingress_pkt_size_range1': Reverse Ingress Packet size between 0 and 200; 'rev_ingress_pkt_size_range2': Reverse Ingress Packet size between 201 and 800; 'rev_ingress_pkt_size_range3': Reverse Ingress Packet size between 801 and 1550; 'rev_ingress_pkt_size_range4': Reverse Ingress Packet size between 1551 and 9000; 'rev_egress_pkt_size_range1': Reverse Egress Packet size between 0 and 200; 'rev_egress_pkt_size_range2': Reverse Egress Packet size between 201 and 800; 'rev_egress_pkt_size_range3': Reverse Egress Packet size between 801 and 1550; 'rev_egress_pkt_size_range4': Reverse Egress Packet size between 1551 and 9000;

Type: string

Supported Values: all, tcp_fullcone_created, tcp_fullcone_freed, udp_fullcone_created, udp_fullcone_freed, fullcone_creation_failure, data_session_created, data_session_created_local, dyn_blist_sess_sp, data_session_freed, data_session_freed_local, dyn_blist_sess_created, dyn_blist_sess_freed, dyn_blist_pkt_drop, dyn_blist_pkt_rate_low, dyn_blist_pkt_rate_high, dyn_blist_version_mismatch, dyn_blist_no_active_policy, fw-def-pkt-dir, fullcone_in_del_q, fullcone_retry_lookup, fullcone_not_found, fullcone_overflow_eim, fullcone_overflow_eif, udp_fullcone_created_shadow, tcp_fullcone_created_shadow, udp_fullcone_freed_shadow, tcp_fullcone_freed_shadow, fullcone_created, fullcone_freed, fullcone_ext_too_many, fullcone_ext_mem_allocated, fullcone_ext_mem_alloc_failure, fullcone_ext_mem_alloc_init_faulure, fullcone_ext_mem_freed, fullcone_ext_added, ha_fullcone_failure, data_session_created_shadow, data_session_created_shadow_local, data_session_freed_shadow, data_session_freed_shadow_local, active_fullcone_session, limit-entry-failure, limit-entry-allocated, limit-entry-mem-freed, limit-entry-created, limit-entry-found, limit-entry-not-in-bucket, limit-entry-marked-deleted, undetermined-rule-counter, non_syn_pkt_fwd_allowed, invalid-lid-drop, src-session-limit-exceeded, uplink-pps-limit-exceeded, downlink-pps-limit-exceeded, total-pps-limit-exceeded, uplink-throughput-limit-exceeded, downlink-throughput-limit-exceeded, total-throughput-limit-exceeded, cps-limit-exceeded, limit-exceeded, limit-entry-per-cpu-mem-allocated, limit-entry-per-cpu-mem-allocation-failed, limit-entry-per-cpu-mem-freed, alg_default_port_disable, no_fwd_route, no_rev_route, no_fwd_l2_dst, no_rev_l2_dst, l2_dst_in_out_same, l2_vlan_changed, urpf_pkt_drop, fw-inside-single-v4-entries-added, fw-inside-subnet-v4-entries-added, fw-inside-single-v6-entries-added, fw-inside-subnet-v6-entries-added, fw-inside-single-v4-entries-deleted, fw-inside-subnet-v4-entries-deleted, fw-inside-single-v6-entries-deleted, fw-inside-subnet-v6-entries-deleted, fw-inside-subnet-entry-creation-error, fw-inside-subnet-entry-del-error, fw-inside-cl-bound, fw-inside-cl-unbound, fw-inside-populate-v4-entry, fw-inside-populate-v6-entry, fw-inside-update-v4-entry, fw-inside-update-v6-entry, fw-inside-remove-v4-entry, fw-inside-remove-v6-

entry, fw-inside-cl-reset-idx, fw-inside-cl-load, fw-inside-entries-not-added-no-dmz-intf, fw-inside-entrie-add-cl-bound-first, fw-inside-entries-removed-dmz-untaged-first, fw-inside-cl-entry-update, no_fw_class_list_match, fw-inside-cl-type-mismatch, fw-inside-cl-id-mismatch, limit-entry-already-added-to-del-queue, fwd_ingress_packets_tcp, fwd_egress_packets_tcp, rev_ingress_packets_tcp, rev_egress_packets_tcp, fwd_ingress_bytes_tcp, fwd_egress_bytes_tcp, rev_ingress_bytes_tcp, rev_egress_bytes_tcp, fwd_ingress_packets_udp, fwd_egress_packets_udp, rev_ingress_packets_udp, rev_egress_packets_udp, fwd_ingress_bytes_udp, fwd_egress_bytes_udp, rev_ingress_bytes_udp, rev_egress_bytes_udp, fwd_ingress_packets_icmp, fwd_egress_packets_icmp, rev_ingress_packets_icmp, rev_egress_packets_icmp, fwd_ingress_bytes_icmp, fwd_egress_bytes_icmp, rev_ingress_bytes_icmp, rev_egress_bytes_icmp, fwd_ingress_packets_others, fwd_egress_packets_others

counters2

Description 'rev_ingress_packets_others': Reverse Ingress Packets OTHERS; 'rev_egress_packets_others': Reverse Egress Packets OTHERS; 'fwd_ingress_bytes_others': Forward Ingress Bytes OTHERS; 'fwd_egress_bytes_others': Forward Egress Bytes OTHERS; 'rev_ingress_bytes_others': Reverse Ingress Bytes OTHERS; 'rev_egress_bytes_others': Reverse Egress Bytes OTHERS; 'fwd_ingress_pkt_size_range1': Forward Ingress Packet size between 0 and 200; 'fwd_ingress_pkt_size_range2': Forward Ingress Packet size between 201 and 800; 'fwd_ingress_pkt_size_range3': Forward Ingress Packet size between 801 and 1550; 'fwd_ingress_pkt_size_range4': Forward Ingress Packet size between 1551 and 9000; 'fwd_egress_pkt_size_range1': Forward Egress Packet size between 0 and 200; 'fwd_egress_pkt_size_range2': Forward Egress Packet size between 201 and 800; 'fwd_egress_pkt_size_range3': Forward Egress Packet size between 801 and 1550; 'fwd_egress_pkt_size_range4': Forward Egress Packet size between 1551 and 9000; 'rev_ingress_pkt_size_range1': Reverse Ingress Packet size between 0 and 200; 'rev_ingress_pkt_size_range2': Reverse Ingress Packet size between 201 and 800; 'rev_ingress_pkt_size_range3': Reverse Ingress Packet size between 801 and 1550; 'rev_ingress_pkt_size_range4': Reverse Ingress Packet size between 1551 and 9000; 'rev_egress_pkt_size_range1': Reverse Egress Packet size between 0 and 200; 'rev_egress_pkt_size_range2': Reverse Egress Packet size between 201 and 800; 'rev_egress_pkt_size_range3': Reverse Egress Packet size between 801 and 1550; 'rev_egress_pkt_size_range4': Reverse Egress Packet size between 1551 and 9000;

Type: string

Supported Values: rev_ingress_packets_others, rev_egress_packets_others, fwd_ingress_bytes_others, fwd_egress_bytes_others, rev_ingress_bytes_others, rev_egress_bytes_others, fwd_ingress_pkt_size_range1, fwd_ingress_pkt_size_range2, fwd_ingress_pkt_size_range3, fwd_ingress_pkt_size_range4, fwd_egress_pkt_size_range1, fwd_egress_pkt_size_range2, fwd_egress_pkt_size_range3, fwd_egress_pkt_size_range4, rev_ingress_pkt_size_range1, rev_ingress_pkt_size_range2, rev_ingress_pkt_size_range3, rev_ingress_pkt_size_range4, rev_egress_pkt_size_range1, rev_egress_pkt_size_range2, rev_egress_pkt_size_range3, rev_egress_pkt_size_range4

2.53.31 fw global stats

Statistics for the object global

global Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	global
Element URI	/axapi/v3/fw/global/stats
Element Attributes	global_attributes
Partition Visibility	None
Schema	`global schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/global/stats

global attributes

Get Object

GET

/axapi/v3/fw/global/stats

global attributes

Modify Object

POST

/axapi/v3/fw/global/stats

global attributes

Replace Object

PUT

/axapi/v3/fw/global/stats

global attributes

Delete Object

DELETE

/axapi/v3/fw/global/stats

global attributes

global attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

active_fullcone_session

Description Total Active Full-cone sessions

Type: number

Format: counter

data_session_created

Description Data Session Created

Type: number

Format: counter

data_session_created_local

Description Data Session Created Local

Type: number

Format: counter

data_session_freed

Description Data Session Freed

Type: number

Format: counter

data_session_freed_local

Description Data Session Freed Local

Type: number

Format: counter

dyn_blist_pkt_drop

Description Dynamic Blacklist - Packet Drop

Type: number

Format: counter

dyn_blist_sess_created

Description Dynamic Blacklist Session Created

Type: number

Format: counter

dyn_blist_sess_freed

Description Dynamic Blacklist Freed

Type: number

Format: counter

fullcone_creation_failure

Description Full-Cone Creation Failure

Type: number

Format: counter

fwd_egress_bytes_icmp

Description Forward Egress Bytes ICMP

Type: number

Format: counter

fwd_egress_bytes_others

Description Forward Egress Bytes OTHERS

Type: number

Format: counter

fwd_egress_bytes_tcp

Description Forward Egress Bytes TCP

Type: number

Format: counter

fwd_egress_bytes_udp

Description Forward Egress Bytes UDP

Type: number

Format: counter

fwd_egress_packets_icmp

Description Forward Egress Packets ICMP

Type: number

Format: counter

fwd_egress_packets_others

Description Forward Egress Packets OTHERS

Type: number

Format: counter

fwd_egress_packets_tcp

Description Forward Egress Packets TCP

Type: number

Format: counter

fwd_egress_packets_udp

Description Forward Egress Packets UDP

Type: number

Format: counter

fwd_egress_pkt_size_range1

Description Forward Egress Packet size between 0 and 200

Type: number

Format: counter

fwd_egress_pkt_size_range2

Description Forward Egress Packet size between 201 and 800

Type: number

Format: counter

fwd_egress_pkt_size_range3

Description Forward Egress Packet size between 801 and 1550

Type: number

Format: counter

fwd_egress_pkt_size_range4

Description Forward Egress Packet size between 1551 and 9000

Type: number

Format: counter

fwd_ingress_bytes_icmp

Description Forward Ingress Bytes ICMP

Type: number

Format: counter

fwd_ingress_bytes_others

Description Forward Ingress Bytes OTHERS

Type: number

Format: counter

fwd_ingress_bytes_tcp

Description Forward Ingress Bytes TCP

Type: number

Format: counter

fwd_ingress_bytes_udp

Description Forward Ingress Bytes UDP

Type: number

Format: counter

fwd_ingress_packets_icmp

Description Forward Ingress Packets ICMP

Type: number

Format: counter

fwd_ingress_packets_others

Description Forward Ingress Packets OTHERS

Type: number

Format: counter

fwd_ingress_packets_tcp

Description Forward Ingress Packets TCP

Type: number

Format: counter

fwd_ingress_packets_udp

Description Forward Ingress Packets UDP

Type: number

Format: counter

fwd_ingress_pkt_size_range1

Description Forward Ingress Packet size between 0 and 200

Type: number

Format: counter

fwd_ingress_pkt_size_range2

Description Forward Ingress Packet size between 201 and 800

Type: number

Format: counter

fwd_ingress_pkt_size_range3

Description Forward Ingress Packet size between 801 and 1550

Type: number

Format: counter

fwd_ingress_pkt_size_range4

Description Forward Ingress Packet size between 1551 and 9000

Type: number

Format: counter

limit-entry-already-added-to-del-queue

Description Limit Entry Added twice to delete queue

Type: number

Format: counter

limit-entry-created

Description Limit Entry Created

Type: number

Format: counter

limit-entry-marked-deleted

Description Limit Entry Marked Deleted

Type: number

Format: counter

non_syn_pkt_fwd_allowed

Description Non-SYN pkt forward allowed

Type: number

Format: counter

rev_egress_bytes_icmp

Description Reverse Egress Bytes ICMP

Type: number

Format: counter

rev_egress_bytes_others

Description Reverse Egress Bytes OTHERS

Type: number

Format: counter

rev_egress_bytes_tcp

Description Reverse Egress Bytes TCP

Type: number

Format: counter

rev_egress_bytes_udp

Description Reverse Egress Bytes UDP

Type: number

Format: counter

rev_egress_packets_icmp

Description Reverse Egress Packets ICMP

Type: number

Format: counter

rev_egress_packets_others

Description Reverse Egress Packets OTHERS

Type: number

Format: counter

rev_egress_packets_tcp

Description Reverse Egress Packets TCP

Type: number

Format: counter

rev_egress_packets_udp

Description Reverse Egress Packets UDP

Type: number

Format: counter

rev_egress_pkt_size_range1

Description Reverse Egress Packet size between 0 and 200

Type: number

Format: counter

rev_egress_pkt_size_range2

Description Reverse Egress Packet size between 201 and 800

Type: number

Format: counter

rev_egress_pkt_size_range3

Description Reverse Egress Packet size between 801 and 1550

Type: number

Format: counter

rev_egress_pkt_size_range4

Description Reverse Egress Packet size between 1551 and 9000

Type: number

Format: counter

rev_ingress_bytes_icmp

Description Reverse Ingress Bytes ICMP

Type: number

Format: counter

rev_ingress_bytes_others

Description Reverse Ingress Bytes OTHERS

Type: number

Format: counter

rev_ingress_bytes_tcp

Description Reverse Ingress Bytes TCP

Type: number

Format: counter

rev_ingress_bytes_udp

Description Reverse Ingress Bytes UDP

Type: number

Format: counter

rev_ingress_packets_icmp

Description Reverse Ingress Packets ICMP

Type: number

Format: counter

rev_ingress_packets_others

Description Reverse Ingress Packets OTHERS

Type: number

Format: counter

rev_ingress_packets_tcp

Description Reverse Ingress Packets TCP

Type: number

Format: counter

rev_ingress_packets_udp

Description Reverse Ingress Packets UDP

Type: number

Format: counter

rev_ingress_pkt_size_range1

Description Reverse Ingress Packet size between 0 and 200

Type: number

Format: counter

rev_ingress_pkt_size_range2

Description Reverse Ingress Packet size between 201 and 800

Type: number

Format: counter

rev_ingress_pkt_size_range3

Description Reverse Ingress Packet size between 801 and 1550

Type: number

Format: counter

rev_ingress_pkt_size_range4

Description Reverse Ingress Packet size between 1551 and 9000

Type: number

Format: counter

tcp_fullcone_created

Description TCP Full-cone Created

Type: number

Format: counter

tcp_fullcone_freed

Description TCP Full-cone Freed

Type: number

Format: counter

udp_fullcone_created

Description UDP Full-cone Created

Type: number

Format: counter

udp_fullcone_freed

Description UDP Full-cone Freed

Type: number

Format: counter

undetermined-rule-counter

Description Undetermined rule detected

Type: number

Format: counter

2.53.32 fw gtp

Configure GTP

gtp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	gtp
Element URI	/axapi/v3/fw/gtp
Element Attributes	gtp_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/fw/gtp/stats
Schema	`gtp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/gtp

gtp attributes

```
POST /axapi/v3/fw/gtp
Payload:
{
    "gtp": {
        "gtp-value": "enable"
    }
}
```

Get Object

GET

/axapi/v3/fw/gtp

gtp attributes

```
GET /axapi/v3/fw/gtp
Reponse:
{
    "gtp": {
        "gtp-value": "enable",
        "echo-timeout": 120,
        "uuid": "46257456-08de-11f0-8baa-c3be1c247dd7",
        "apn-prefix": {
            "uuid": "462574ec-08de-11f0-8baa-c3be1c247dd7",
            "a10-url": "/axapi/v3/fw/gtp/apn-prefix"
        },
        "network-element": {
            "uuid": "4625758c-08de-11f0-8baa-c3be1c247dd7",
            "a10-url": "/axapi/v3/fw/gtp/network-element"
        },
        "a10-url": "/axapi/v3/fw/gtp"
    }
}
```

Modify Object

POST

/axapi/v3/fw/gtp

gtp attributes

Replace Object

PUT

/axapi/v3/fw/gtp

gtp attributes

```
PUT /axapi/v3/fw/gtp
Payload:
{
    "gtp": {
        "gtp-value": "enable"
    }
}
```

Delete Object

DELETE

/axapi/v3/fw/gtp

gtp attributes

```
DELETE /axapi/v3/fw/gtp
Reponse:
{
    "response": {
        "http-status": 200,
        "status": "OK",
        "msg": "Success"
    }
}
```

gtp attributes

apn-log-periodicity

Description Periodic Logging Frequency(In Minutes)

Type: number

Range: 1-30

apn-prefix

Description: apn-prefix is a **JSON Block**. Please see below for *apn-prefix*

Type: Object

Reference Object: */axapi/v3/fw/gtp/apn-prefix*

apn-prefix-list

Description Class List (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

echo-timeout

Description echo message timeout (minutes) (echo-timeout (default 120))

Type: number

Range: 1-261

Default: 120

gtp-value

Description 'enable': Enable GTP Inspection;

Type: string

Supported Values: enable

insertion-mode

Description 'monitor': Enable inline view-only mode; 'skip-state-checks': Enable skip stateful checks mode;

Type: string

Supported Values: monitor, skip-state-checks

ne-v4-log-periodicity

Description Periodic Logging Frequency(In Minutes)

Type: number

Range: 1-30

ne-v6-log-periodicity

Description Periodic Logging Frequency(In Minutes)

Type: number

Range: 1-30

network-element

Description: network-element is a **JSON Block**. Please see below for *network-element*

Type: Object

Reference Object: */axapi/v3/fw/gtp/network-element*

network-element-list-v4

Description Class List (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

network-element-list-v6

Description Class List (Class List Name)

Type: string

Format: string-rlx

Maximum Length: 63 characters

Maximum Length: 1 characters

path-mgmt-logging

Description 'enable-log': Enable Log for Path Management;

Type: string

Supported Values: enable-log

sampling-enable

Type: List

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

network-element

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

apn-prefix

Specification	Value
Type	*object*

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

sampling-enable

Specification	Value
Type	*list*
Block object keys	

counters1

Description 'all': all; 'out-of-session-memory': Out of Tunnel Memory; 'no-fwd-route': No Forward Route; 'no-rev-route': No Reverse Route; 'gtp-smp-created': GTP SMP Created; 'gtp-smp-marked-deleted': GTP SMP Marked Deleted; 'gtp-smp-deleted': GTP SMP Deleted; 'smp-creation-failed': GTP-U SMP Helper Session Creation Failed; 'gtp-smp-path-created': GTP SMP PATH Created; 'gtp-smp-path-freed': GTP SMP PATH MEM freed; 'gtp-smp-path-allocated': GTP SMP PATH MEM allocated; 'gtp-smp-path-creation-failed': GTP SMP PATH creation Failed; 'gtp-smp-path-check-failed': GTP SMP PATH check Failed; 'gtp-smp-check-failed': GTP SMP check Failed; 'gtp-smp-session-count-check-failed': GTP-U session count is not in range of 0-11 in GTP-C SMP; 'gtp-c-ref-count-smp-exceeded': GTP-C session count on C-smp exceeded 2; 'gtp-u-smp-in-rml-with-sess': GTP-U smp is marked RML with U-session; 'gtp-u-pkt-fwd-conn-create': GTP-U pkt fwded while creating conn with gtp toggling; 'gtp-c-pkt-fwd-conn-create': GTP-C pkt fwded while creating conn with gtp toggling; 'gtp-echo-pkt-fwd-conn-create': GTP-ECHO pkt fwded while creating conn with gtp toggling; 'gtp-tunnel-rate-limit-entry-create-success': GTP Tunnel Level Rate Limit Entry Create Success; 'gtp-tunnel-rate-limit-entry-create-failure': GTP Tunnel Level Rate Limit Entry Create Failure; 'gtp-tunnel-rate-limit-entry-deleted': GTP Tunnel Level Rate Limit Entry Deleted; 'gtp-rate-limit-smp-created': GTP Rate Limit SMP Created; 'gtp-rate-limit-smp-freed': GTP Rate Limit SMP Freed; 'gtp-rate-limit-smp-create-failure': GTP Rate Limit SMP Create Failure; 'gtp-rate-limit-t3-ctr-create-failure': GTP Rate Limit Dynamic Counters Create Failure; 'gtp-rate-limit-entry-create-failure': GTP Rate Limit Entry Create Failure; 'gtp-echo-conn-created': GTP Echo Request Conn Created; 'gtp-echo-conn-deleted': GTP Echo Request conn Deleted; 'gtp-node-restart-echo': GTP Node Restoration due to Recovery IE in Echo; 'gtp-c-echo-path-failure': GTP-C Path Failure due to Echo; 'drop-vld-gtp-echo-out-of-state-': GTP Echo Out of State Drop; 'drop-vld-gtp-echo-ie-len-exceed-msg-len': GTP Echo IE Length Exceeds Message Length; 'gtp-create-session-request-retransmit': GTP-C Retransmitted Create Session Request; 'gtp-add-bearer-request-retransmit': GTP-C Retransmitted Add Bearer Request; 'gtp-delete-session-request-retransmit': GTP-C Retransmitted Delete Session Request; 'gtp-handover-request-retransmit': GTP Handover Request Retransmit; 'gtp-del-bearer-request-retransmit': GTP-C Retransmitted Delete Bearer Request; 'gtp-add-bearer-response-retransmit': GTP-C Retransmitted Add Bearer Response; 'gtp-create-session-request-retx-drop': GTP-C Retransmitted Create Session Request dropped; 'gtp-u-out-of-state-drop': GTP-U Out of state Drop; 'gtp-c-handover-request-out-of-state-drop': GTP-C Handover Request Out of state Drop; 'gtp-v1-c-nsapi-not-found-in-delete-req': GTPv1-C NSAPI Not Found in GTP Request; 'gtp-v2-c-bearer-not-found-in-delete-req': GTPv2-C Bearer Not Found in GTP Request; 'gtp-v2-c-bearer-not-found-in-delete-resp': GTPv2-C Bearer Not Found in GTP Response; 'gtp-multiple-handover-request': GTP Multiple Handover Request; 'gtp-rr-message-drop': GTP Message Dropped in RR Mode; 'gtp-rr-echo-message-dcmsg': GTP Echo Message Sent to home CPU in RR Mode; 'gtp-rr-c-message-dcmsg': GTP-C Message Sent to home CPU in RR Mode; 'drop-gtp-frag-or-jumbo-pkt': GTP Fragmented or JUMBO packet Drop; 'response-with-reject-cause-forwarded': GTP-C Response with Reject Cause Forwarded; 'gtp-c-message-forwarded-without-conn': GTP-C Message Forwarded without Conn; 'gtp-v0-c-ver-not-supp': GTPv0-C Version not supported indication; 'gtp-v1-c-ver-not-supp': GTPv1-C Version not supported indication; 'gtp-v2-c-ver-not-supp': GTPv2-C Version not supported indication; 'gtp-v1-extn-hdt-notif': GTPV1 Supported Extension header notification; 'gtp-u-error-ind': GTP-U Error Indication; 'gtp-c-handover-in-progress-with-conn': GTP-C mesg matching conn with HO In

Progress; 'gtp-ho-in-progress-handover-request': GTP-C ho mesg matching conn with HO In Progress; 'gtp-correct-conn-ho-in-progress-handover-request': GTP-C ho mesg matching correct conn(reuse teid) with HO In Progress; 'gtp-wrong-conn-ho-in-progress-handover-request': GTP-C ho mesg matching wrong conn(new teid) with HO In Progress; 'gtp-ho-in-progress-handover-response': GTP-C ho response matching a conn with HO In Progress; 'gtp-ho-in-progress-c-mesg': GTP-C other than ho mesg matching conn with HO In Progress; 'gtp-unset-ho-flag-reuse-teid': GTP-C SGW reuse teid with ho and unset ho flag; 'gtp-refresh-c-conn-reuse-teid': GTP-C SGW reuse teid with ho and refresh old conn; 'gtp-rematch-smp-matching-conn': GTP-C rematch smp with packet matching conn; 'gtp-wrong-conn-handover-request': GTP-C ho mesg matching wrong conn(new teid) with no HO flag; 'gtp-refresh-conn-set-ho-flag-latest': GTP-C SGW refresh old conn and set ho flag on latest smp; 'gtp-c-process-pkt-drop': GTP-C process pkt drop; 'gtp-c-fwd-pkt-drop': GTP-C fwd pkt drop; 'gtp-c-rev-pkt-drop': GTP-C rev pkt drop; 'gtp-c-fwd-v1-other': GTP-C fwd v1 other messages; 'gtp-c-fwd-v2-other': GTP-C fwd v2 other messages; 'gtp-c-rev-v1-other': GTP-C rev v1 other messages; 'gtp-c-rev-v2-other': GTP-C rev v2 other messages; 'gtp-c-going-thru-fw-lookup': GTP-C mesg going thru fw lookup can be resp or l5 mesg not matching smp; 'gtp-c-conn-create-pkt-drop': GTP-C conn creation drop; 'gtp-c-pkt-fwd-conn-create-no-fteid': GTP-C pkt fwded while creating conn when no FTEID; 'gtp-inter-pu-mstr-to-bld-dcmsg-fail': GTP inter-PU dcmsg failed from Master to Blade; 'gtp-inter-pu-mstr-to-bld-dcmsg-sent': GTP inter-PU Master to Blade dcmsg sent; 'gtp-inter-pu-mstr-to-bld-dcmsg-recv': GTP inter-PU dcmsg received on blade; 'gtp-inter-pu-mstr-to-bld-query-sent': GTP inter-PU query sent from Master to Blade; 'gtp-inter-pu-mstr-to-bld-query-recv': GTP inter-PU GTP-C query received on Blade; 'gtp-inter-pu-mstr-to-bld-query-resp-sent': GTP inter-PU GTP-C query response sent from Master to Blade; 'gtp-inter-pu-bld-to-mstr-dcmsg-fail': GTP inter-PU dcmsg failed from Blade to Master; 'gtp-inter-pu-bld-to-mstr-dcmsg-sent': GTP inter-PU Blade to Master dcmsg sent; 'gtp-inter-pu-bld-to-mstr-dcmsg-recv': GTP inter-PU dcmsg received on Master; 'gtp-inter-pu-bld-to-mstr-query-sent': GTP inter-PU query sent from Blade to Master; 'gtp-inter-pu-bld-to-mstr-query-recv': GTP inter-PU GTP-C query received on Master; 'gtp-inter-pu-bld-to-mstr-query-resp-sent': GTP inter-PU GTP-C query response sent from Blade to Master; 'gtp-mstr-to-bld-query-resp-fail': GTP inter-PU dcmsg of query response failed from Master to Blade; 'gtp-bld-to-mstr-query-resp-fail': GTP inter-PU dcmsg of query response failed from Blade to Master; 'gtp-c-smp-refer-stale-idx': GTP-C SMP referring stale C-conn idx; 'gtp-smp-dec-sess-count-check-failed': GTP-U session count is 0 in GTP-C SMP; 'gtp-c-freed-conn-check': GTP-C freed conn accessed; 'gtp-c-conn-not-in-rml-when-freed': GTP-C conn not in rml when tuple is freed; 'gtp-v0-c-uplink-ingress-packets': GTPv0-C Uplink Ingress Packets; 'gtp-v0-c-uplink-egress-packets': GTPv0-C Uplink Egress Packets; 'gtp-v0-c-downlink-ingress-packets': GTPv0-C Downlink Ingress Packets; 'gtp-v0-c-downlink-egress-packets': GTPv0-C Downlink Egress Packets; 'gtp-v0-c-uplink-ingress-bytes': GTPv0-C Uplink Ingress Bytes; 'gtp-v0-c-uplink-egress-bytes': GTPv0-C Uplink Egress Bytes; 'gtp-v0-c-downlink-ingress-bytes': GTPv0-C Downlink Ingress Bytes; 'gtp-v0-c-downlink-egress-bytes': GTPv0-C Downlink Egress Bytes; 'gtp-v1-c-uplink-ingress-packets': GTPv1-C Uplink Ingress Packets; 'gtp-v1-c-uplink-egress-packets': GTPv1-C Uplink Egress Packets;

Type: string

Supported Values: all, out-of-session-memory, no-fwd-route, no-rev-route, blade-out-of-session-memory, blade-no-fwd-route, blade-no-rev-route, gtp-smp-created, gtp-smp-marked-deleted, gtp-smp-deleted, smp-creation-failed, gtp-smp-path-created, gtp-smp-path-freed, gtp-smp-path-allocated, gtp-smp-path-creation-failed, gtp-smp-path-check-failed, gtp-smp-c-check-failed, blade-gtp-smp-created, blade-gtp-smp-marked-deleted, blade-gtp-smp-deleted, blade-smp-creation-failed, blade-gtp-smp-path-created, blade-gtp-smp-path-freed, blade-gtp-smp-path-allocated, blade-gtp-smp-path-creation-failed, blade-gtp-smp-path-check-failed, blade-gtp-smp-c-check-failed, gtp-smp-session-count-check-failed, gtp-c-ref-count-smp-exceeded, blade-gtp-c-ref-count-smp-exceeded, gtp-u-smp-in-rml-with-sess, blade-gtp-u-smp-in-rml-with-sess, gtp-u-pkt-fwd-conn-create, gtp-c-pkt-fwd-conn-create, gtp-echo-

pkt-fwd-conn-create, gtp-tunnel-rate-limit-entry-create-success, gtp-tunnel-rate-limit-entry-inc-ref-count, gtp-tunnel-rate-limit-entry-create-failure, gtp-tunnel-rate-limit-entry-deleted, gtp-u-tunnel-rate-limit-entry-create-success, gtp-u-tunnel-rate-limit-entry-inc-ref-count, gtp-u-tunnel-rate-limit-entry-create-failure, gtp-u-tunnel-rate-limit-entry-deleted, gtp-rate-limit-smp-created, gtp-rate-limit-smp-freed, gtp-rate-limit-smp-create-failure, gtp-rate-limit-t3-ctr-create-failure, gtp-rate-limit-entry-create-failure, blade-gtp-rate-limit-smp-created, blade-gtp-rate-limit-smp-freed, blade-gtp-rate-limit-smp-create-failure, blade-gtp-rate-limit-t3-ctr-create-failure, blade-gtp-rate-limit-entry-create-failure, gtp-echo-conn-created, gtp-echo-conn-deleted, gtp-node-restart-echo, gtp-c-echo-path-failure, drop-vld-gtp-echo-out-of-state-, drop-vld-gtp-echo-ie-len-exceed-msg-len, drop-vld-gtp-u-echo-out-of-state-, gtp-create-session-request-retransmit, gtp-add-bearer-request-retransmit, gtp-delete-session-request-retransmit, gtp-handover-request-retransmit, gtp-del-bearer-request-retransmit, gtp-add-bearer-response-retransmit, gtp-create-session-request-retx-drop, gtp-u-out-of-state-drop, gtp-c-handover-request-out-of-state-drop, gtp-v1-c-nsapi-not-found-in-delete-req, gtp-v2-c-bearer-not-found-in-delete-req, gtp-v2-c-bearer-not-found-in-delete-resp, gtp-multiple-handover-request, gtp-rr-message-drop, gtp-u-rr-message-drop, gtp-rr-echo-message-dcmsg, gtp-rr-c-message-dcmsg, drop-gtp-frag-or-jumbo-pkt, response-with-reject-cause-forwarded, gtp-c-message-forwarded-without-conn, gtp-v0-c-ver-not-supp, gtp-v1-c-ver-not-supp, gtp-v2-c-ver-not-supp, gtp-v1-extn-hdt-notif, gtp-u-error-ind, gtp-c-handover-in-progress-with-conn, gtp-ho-in-progress-handover-request, gtp-correct-conn-ho-in-progress-handover-request, gtp-wrong-conn-ho-in-progress-handover-request, gtp-ho-in-progress-handover-response, gtp-ho-in-progress-c-mesg, gtp-unset-ho-flag-reuse-teid, gtp-refresh-c-conn-reuse-teid, gtp-rematch-smp-matching-conn, gtp-wrong-conn-handover-request, gtp-refresh-conn-set-ho-flag-latest, gtp-c-process-pkt-drop, gtp-c-fwd-pkt-drop, gtp-c-rev-pkt-drop, gtp-c-fwd-v1-other, gtp-c-fwd-v2-other, gtp-c-rev-v1-other, gtp-c-rev-v2-other, gtp-c-going-thru-fw-lookup, gtp-c-conn-create-pkt-drop, gtp-c-pkt-fwd-conn-create-no-fteid, gtp-inter-pu-mstr-to-bld-dcmsg-fail, gtp-inter-pu-mstr-to-bld-dcmsg-sent

counters2

Description 'gtp-v1-c-downlink-ingress-packets': GTPv1-C Downlink Ingress Packets; 'gtp-v1-c-downlink-egress-packets': GTPv1-C Downlink Egress Packets; 'gtp-v1-c-uplink-ingress-bytes': GTPv1-C Uplink Ingress Bytes; 'gtp-v1-c-uplink-egress-bytes': GTPv1-C Uplink Egress Bytes; 'gtp-v1-c-downlink-ingress-bytes': GTPv1-C Downlink Ingress Bytes; 'gtp-v1-c-downlink-egress-bytes': GTPv1-C Downlink Egress Bytes; 'gtp-v2-c-uplink-ingress-packets': GTPv2-C Uplink Ingress Packets; 'gtp-v2-c-uplink-egress-packets': GTPv2-C Uplink Egress Packets; 'gtp-v2-c-downlink-ingress-packets': GTPv2-C Downlink Ingress Packets; 'gtp-v2-c-downlink-egress-packets': GTPv2-C Downlink Egress Packets; 'gtp-v2-c-uplink-ingress-bytes': GTPv2-C Uplink Ingress Bytes; 'gtp-v2-c-uplink-egress-bytes': GTPv2-C Uplink Egress Bytes; 'gtp-v2-c-downlink-ingress-bytes': GTPv2-C Downlink Ingress Bytes; 'gtp-v2-c-downlink-egress-bytes': GTPv2-C Downlink Egress Bytes; 'gtp-u-uplink-ingress-packets': GTP-U Uplink Ingress Packets; 'gtp-u-uplink-egress-packets': GTP-U Uplink Egress Packets; 'gtp-u-downlink-ingress-packets': GTP-U Downlink Ingress Packets; 'gtp-u-downlink-egress-packets': GTP-U Downlink Egress Packets; 'gtp-u-uplink-ingress-bytes': GTP-U Uplink Ingress Bytes; 'gtp-u-uplink-egress-bytes': GTP-U Uplink Egress Bytes; 'gtp-u-downlink-ingress-bytes': GTP-U Downlink Ingress Bytes; 'gtp-u-downlink-egress-bytes': GTP-U Downlink Egress Bytes; 'gtp-v0-c-create-synced': GTPv0-C Tunnel Create Synced; 'gtp-v1-c-create-synced': GTPv1-C Tunnel Create Synced; 'gtp-v2-c-create-synced': GTPv2-C Tunnel Create Synced; 'gtp-v0-c-delete-synced': GTPv0-C Tunnel Delete Synced; 'gtp-v1-c-delete-synced': GTPv1-C Tunnel Delete Synced; 'gtp-v2-c-delete-synced': GTPv2-C Tunnel Delete Synced; 'gtp-v0-c-create-sync-rx': GTPv0-C Tunnel Create Sync Received on Standby; 'gtp-v1-c-create-sync-rx': GTPv1-C Tunnel Create Sync Received on Standby; 'gtp-v2-c-create-sync-rx': GTPv2-C Tunnel Create Sync Received on Standby; 'gtp-v0-c-delete-sync-rx': GTPv0-C Tunnel Delete Sync Received on Standby; 'gtp-v1-c-delete-sync-rx': GTPv1-C Tunnel Delete Sync Received on Standby; 'gtp-v2-c-delete-sync-rx': GTPv2-

C Tunnel Delete Sync Received on Standby; 'gtp-handover-synced': GTP Handover Synced; 'gtp-handover-sync-rx': GTP Handover Sync Received on Standby; 'gtp-smp-add-bearer-synced': GTP SMP Add Bearer Synced; 'gtp-smp-del-bearer-synced': GTP SMP Del Bearer Synced; 'gtp-smp-additional-bearer-synced': GTP SMP Additional Bearer Synced; 'gtp-smp-add-bearer-sync-rx': GTP SMP Add Bearer Sync Received on Standby; 'gtp-smp-del-bearer-sync-rx': GTP SMP Del Bearer Sync Received on Standby; 'gtp-smp-additional-bearer-sync-rx': GTP SMP Additional Bearer Sync Received on Standby; 'gtp-add-bearer-sync-not-rx-on-standby': GTP Add Bearer Sync Not Received on Standby; 'gtp-add-bearer-sync-with-periodic-update-on-standby': GTP Bearer Added on Standby with Periodic Sync; 'gtp-delete-bearer-sync-with-periodic-update-on-standby': GTP Bearer Deleted on Standy with Periodic Sync; 'gtp-v0-c-echo-create-synced': GTPv0-C Echo Create Synced; 'gtp-v1-c-echo-create-synced': GTPv1-C Echo Create Synced; 'gtp-v2-c-echo-create-synced': GTPv2-C Echo Create Synced; 'gtp-v0-c-echo-create-sync-rx': GTPv0-C-Echo Create Sync Received on Standby; 'gtp-v1-c-echo-create-sync-rx': GTPv1-C-Echo Create Sync Received on Standby; 'gtp-v2-c-echo-create-sync-rx': GTPv2-C-Echo Create Sync Received on Standby; 'gtp-v0-c-echo-del-synced': GTPv0-C Echo Delete Synced; 'gtp-v1-c-echo-del-synced': GTPv1-C Echo Delete Synced; 'gtp-v2-c-echo-del-synced': GTPv2-C Echo Delete Synced; 'gtp-v0-c-echo-del-sync-rx': GTPv0-C-Echo Delete Sync Received on Standby; 'gtp-v1-c-echo-del-sync-rx': GTPv1-C-Echo Delete Sync Received on Standby; 'gtp-v2-c-echo-del-sync-rx': GTPv2-C-Echo Delete Sync Received on Standby; 'drop-gtp-conn-creation-standby': GTP Conn creation on Standby Drop; 'gtp-u-synced-before-control': GTP-U Tunnel synced before corresponding GTP-C; 'gtp-c-l5-synced-before-l3': GTP-C L5 conn synced before corresponding L3 GTP-C conn; 'gtp-smp-path-del-synced': GTP SMP path delete Synced; 'gtp-smp-path-del-sync-rx': GTP SMP path delete Sync Received on Standby; 'gtp-not-enabled-on-standby': GTP Not Enabled on Standby; 'gtp-ip-version-v4-v6': GTP IP versions of V4&V6 in FTEID; 'drop-gtp-ip-version-mismatch-fteid': GTP IP version mismatch for req & response FTEIDs; 'drop-gtp-ip-version-mismatch-ho-fteid': GTP IP version mismatch in Handover SGW FTEID; 'gtp-u-message-length-mismatch': GTP-U Message Length Mismatch Across Layers; 'gtp-path-message-length-mismatch': GTP-Path Message Length Mismatch Across Layers; 'drop-gtp-missing-cond-ie-bearer-ctx': Missing conditional IE in bearer context Drop; 'drop-gtp-bearer-not-found-in-resp': GTP Bearer not found in response; 'gtp-stateless-forward': GTP Stateless Forward; 'gtp-l3-conn-deleted': GTP L3 conn deleted; 'gtp-l5-conn-created': GTP L5 conn created; 'gtp-monitor-forward': GTP messages forwarded via monitor mode; 'gtp-u_inner-ip-not-present': GTP-U inner IP not present; 'gtp-ext_hdr-incorrect-length': GTP Extension header incorrect length;

Type: string

Supported Values: gtp-inter-pu-mstr-to-bld-dcmsg-recv, gtp-inter-pu-mstr-to-bld-query-sent, gtp-inter-pu-mstr-to-bld-query-recv, gtp-inter-pu-mstr-to-bld-query-resp-sent, gtp-inter-pu-bld-to-mstr-dcmsg-fail, gtp-inter-pu-bld-to-mstr-dcmsg-sent, gtp-inter-pu-bld-to-mstr-dcmsg-recv, gtp-inter-pu-bld-to-mstr-query-sent, gtp-inter-pu-bld-to-mstr-query-recv, gtp-inter-pu-bld-to-mstr-query-resp-sent, gtp-mstr-to-bld-query-resp-fail, gtp-bld-to-mstr-query-resp-fail, gtp-c-smp-refer-stale-idx, gtp-smp-dec-sess-count-check-failed, gtp-c-freed-conn-check, gtp-c-conn-not-in-rml-when-freed, gtp-u-smp-check-failed, gtp-c-smp-already-in-rml, gtp-u-smp-already-in-rml, gtp-info-ext-not-found, gtp-c-smp-unlink-from-hash-fail, gtp-u-smp-unlink-from-hash-fail, gtp-smp-link-to-hash-in-rml, gtp-c-conn-ptr-not-found, gtp-smp-already-in-del-queue, gtp-smp-path-already-in-del-queue, blade-gtp-c-smp-refer-stale-idx, blade-gtp-smp-dec-sess-count-check-failed, blade-gtp-c-freed-conn-check, blade-gtp-c-conn-not-in-rml-when-freed, blade-gtp-u-smp-check-failed, blade-gtp-c-smp-already-in-rml, blade-gtp-u-smp-already-in-rml, blade-gtp-info-ext-not-found, blade-gtp-c-smp-unlink-from-hash-fail, blade-gtp-u-smp-unlink-from-hash-fail, blade-gtp-smp-link-to-hash-in-rml, blade-gtp-c-conn-ptr-not-found, blade-gtp-smp-already-in-del-queue, blade-gtp-smp-path-already-in-del-queue, gtp-smp-double-free, gtp-smp-path-double-free, gtp-c-smp-not-found-in-hash, gtp-u-smp-not-found-in-hash, gtp-smp-already-in-UL-hash, gtp-smp-already-in-

DL-hash, gtp-c-smp-in-rml-c-conn-age-upd, gtp-c-ref-count-max-smp-set-for-ageout, gtp-c-smp-del-max-ref-count, gtp-u-smp-unlinked-u-conn-creation, blade-gtp-smp-double-free, blade-gtp-smp-path-double-free, blade-gtp-c-smp-not-found-in-hash, blade-gtp-u-smp-not-found-in-hash, blade-gtp-smp-already-in-UL-hash, blade-gtp-smp-already-in-DL-hash, blade-gtp-c-smp-in-rml-c-conn-age-upd, blade-gtp-c-ref-count-max-smp-set-for-ageout, blade-gtp-c-smp-del-max-ref-count, blade-gtp-u-smp-unlinked-u-conn-creation, gtp-u-stateless-forward, gtp-u-smp-not-found-conn-creation, gtp-u-match-c-smp-with-del-flag, gtp-u-match-c-smp-with-ho-flag, gtp-u-match-dbr-u-smp-conn-create, gtp-c-info-extract-failed, gtp-c-smp-extract-failed, gtp-u-info-extract-failed, gtp-u-match-c-smp-in-rml, blade-gtp-c-info-extract-failed, blade-gtp-c-smp-extract-failed, blade-gtp-u-info-extract-failed, blade-gtp-u-match-c-smp-in-rml, gtp-echo-stateless-forward, gtp-u-smp-not-found-c-processing, gtp-u-pkt-u-smp-validation-failed, blade-gtp-u-pkt-u-smp-validation-failed, gtp-u-frag-pkt-processed, gtp-c-frag-pkt-received, gtp-u-frag-pkt-received, gtp-c-frag-or-jumbo-pkt-processed, gtp-echo-frag-or-jumbo-pkt-processed, gtp-u-tunnel-frag-or-jumbo-pkt-processed, gtp-u-attempt-for-double-free, gtp-c-attempt-for-double-free, gtp-c-smp-access-after-reuse, gtp-u-smp-access-after-reuse, gtp-c-smp-cleared-by-standalone, gtp-c-smp-cleared-by-l3-with-l5, blade-gtp-u-attempt-for-double-free, blade-gtp-c-attempt-for-double-free, blade-gtp-c-smp-access-after-reuse, blade-gtp-u-smp-access-after-reuse, blade-gtp-c-smp-cleared-by-standalone, blade-gtp-c-smp-cleared-by-l3-with-l5, blade-gtp-smp-session-count-check-failed

counters3

Description ‘gtp-inter-pu-u-create-sent’: GTP inter-pu U-creation sync sent; ‘gtp-inter-pu-u-delete-sent’: GTP inter-pu U-deletion sync sent; ‘gtp-inter-pu-c-query-sent’: GTP inter-pu C-query sync sent; ‘blade-gtp-inter-pu-u-create-sent’: GTP inter-pu U-creation sync sent on PU2; ‘blade-gtp-inter-pu-u-delete-sent’: GTP inter-pu U-deletion sync sent on PU2; ‘blade-gtp-inter-pu-c-query-sent’: GTP inter-pu C-query sync sent on PU2; ‘gtp-inter-pu-u-create-tx-fail’: GTP inter-pu U-creation tx fail; ‘gtp-inter-pu-u-delete-tx-fail’: GTP inter-pu U-deletion tx fail; ‘gtp-inter-pu-c-query-tx-fail’: GTP inter-pu C-query tx fail; ‘blade-gtp-inter-pu-u-create-tx-fail’: GTP inter-pu U-creation tx fail on PU2; ‘blade-gtp-inter-pu-u-delete-tx-fail’: GTP inter-pu U-deletion tx fail on PU2; ‘blade-gtp-inter-pu-c-query-tx-fail’: GTP inter-pu C-query tx fail on PU2; ‘gtp-inter-pu-u-create-recv’: GTP inter-pu U-creation recv; ‘gtp-inter-pu-u-delete-recv’: GTP inter-pu U-deletion recv; ‘gtp-inter-pu-c-query-recv’: GTP inter-pu C-mesg recv; ‘blade-gtp-inter-pu-u-create-recv’: GTP inter-pu U-creation recv on PU2; ‘blade-gtp-inter-pu-u-delete-recv’: GTP inter-pu U-deletion recv on PU2; ‘blade-gtp-inter-pu-c-query-recv’: GTP inter-pu C-mesg recv on PU2; ‘gtp-inter-pu-u-create-drop-no-smp’: GTP inter-pu U-create rx drop no smp; ‘blade-gtp-inter-pu-u-create-drop-no-smp’: GTP inter-pu U-create rx drop no smp PU2; ‘gtp-inter-pu-u-delete-drop-no-smp’: GTP inter-pu U-delete rx drop no smp; ‘blade-gtp-inter-pu-u-delete-drop-no-smp’: GTP inter-pu U-delete rx drop no smp PU2; ‘gtp-inter-pu-u-create-error’: GTP inter-pu U-create rx drop with error; ‘blade-gtp-inter-pu-u-create-error’: GTP inter-pu U-create rx drop with error PU2; ‘gtp-inter-pu-u-delete-error’: GTP inter-pu U-delete rx drop with error; ‘blade-gtp-inter-pu-u-delete-error’: GTP inter-pu U-delete rx drop with error PU2; ‘gtp-inter-pu-no-rsp-to-query’: GTP inter-pu No response to query; ‘blade-gtp-inter-pu-no-rsp-to-query’: GTP inter-pu No response to query on PU2; ‘gtp-fwd-tuple-dst-updated’: GTP FWD tuple updated with dst; ‘gtp-rev-tuple-dst-updated’: GTP REV tuple updated with dst; ‘gtp-c-conn-with-no-dst’: GTP-C created on active with no dst; ‘gtp-sync-rx-create-ext-bit-counter-inter-pu’: Conn Sync Create with Ext Received with inter-pu comm counter; ‘gtp-query-pkt-tx-counter-gtp-c’: Conn Query GTP-C sent counter; ‘gtp-query-pkt-tx-counter-gtp-u’: Conn Query GTP-U sent counter; ‘gtp-query-pkt-tx-counter-gtp-echo’: Conn Query GTP-ECHO sent counter; ‘gtp-sync-tx-inter-pu-no-vnp-error’: send of inter-pu msg failed with no vnp error; ‘gtp-sync-tx-inter-pu-no-gtp-u-ext’: send of inter-pu msg failed with no GTP-U ext; ‘gtp-sync-tx-inter-pu-no-ug-error’: send of inter-pu msg failed with no user group error; ‘gtp-sync-tx-inter-pu-no-msg-hdr-error’: send of inter-pu msg failed as msg header ext failed; ‘gtp-sync-tx-inter-pu-no-data-error’: send of inter-pu msg failed with no data to pack; ‘gtp-sync-tx-fw-drop-session-create’: Conn Sync

FW gtp Create Session Sent dropped; 'gtp-query-pkt-rx-counter-gtp-c': Conn Query GTP-C recv counter; 'gtp-query-pkt-rx-counter-gtp-u': Conn Query GTP-U recv counter; 'gtp-query-pkt-rx-counter-gtp-echo': Conn Query GTP-ECHO recv counter; 'gtp-sync-rx-del-c-counter': Conn Sync Del Session GTP-C Received counter; 'gtp-sync-rx-del-u-counter': Conn Sync Del Session GTP-U Received counter; 'gtp-sync-rx-del-echo-counter': Conn Sync Del Session ECHO Received counter; 'gtp-sync-rx-create-c-counter': Conn Sync create Session GTP-C Received counter; 'gtp-sync-rx-create-u-counter': Conn Sync create Session GTP-U Received counter; 'gtp-sync-rx-create-echo-counter': Conn Sync create Session ECHO Received counter; 'gtp-sync-tx-create-c-counter': Conn Sync create Session GTP-C sent counter; 'gtp-sync-tx-create-u-counter': Conn Sync create Session GTP-U sent counter; 'gtp-sync-tx-create-echo-counter': Conn Sync create Session ECHO sent counter; 'gtp-sync-tx-delete-c-counter': Conn Sync delete Session GTP-C sent counter; 'gtp-sync-tx-delete-u-counter': Conn Sync delete Session GTP-U sent counter; 'gtp-sync-tx-delete-echo-counter': Conn Sync delete Session ECHO sent counter; 'gtp-sync-rx-del-no-such-c-session': Conn Sync Del C-Conn not Found; 'gtp-sync-rx-del-no-such-u-session': Conn Sync Del U-Conn not Found; 'gtp-sync-rx-del-no-such-echo-session': Conn Sync Del ECHO-Conn not Found; 'gtp-c-match-c-smp-with-del-flag': GTP-C match C-smp with deletion flag; 'gtp-c-match-c-smp-with-ho-flag': GTP-C match C-smp with HO flag; 'gtp-c-smp-sig-check-failed': GTP-C SMP signature check Failed; 'blade-gtp-c-smp-sig-check-failed': GTP-C SMP signature check Failed on PU2; 'gtp-u-smp-sig-check-failed': GTP SMP signature check Failed; 'blade-gtp-u-smp-sig-check-failed': GTP-U SMP signature check Failed on PU2; 'gtp-smp-sig-check-failed': GTP SMP signature check Failed; 'blade-gtp-smp-sig-check-failed': GTP SMP signature check Failed on PU2; 'gtp-c-fail-conn-create-slow': GTP-C packet failed creating L4-session in slowpath; 'gtp-u-fail-conn-create-slow': GTP-U packet failed while creating L4-session in slowpath; 'gtp-pathm-fail-conn-create-slow': GTP path packet failed while creating L4-session in slowpath; 'gtp-v0-c-uplink-ingress-packets': GTPv0-C Uplink Ingress Packets; 'gtp-v0-c-uplink-egress-packets': GTPv0-C Uplink Egress Packets; 'gtp-v0-c-downlink-ingress-packets': GTPv0-C Downlink Ingress Packets; 'gtp-v0-c-downlink-egress-packets': GTPv0-C Downlink Egress Packets; 'gtp-v0-c-uplink-ingress-bytes': GTPv0-C Uplink Ingress Bytes; 'gtp-v0-c-uplink-egress-bytes': GTPv0-C Uplink Egress Bytes; 'gtp-v0-c-downlink-ingress-bytes': GTPv0-C Downlink Ingress Bytes; 'gtp-v0-c-downlink-egress-bytes': GTPv0-C Downlink Egress Bytes; 'gtp-v1-c-uplink-ingress-packets': GTPv1-C Uplink Ingress Packets; 'gtp-v1-c-uplink-egress-packets': GTPv1-C Uplink Egress Packets; 'gtp-v1-c-downlink-ingress-packets': GTPv1-C Downlink Ingress Packets; 'gtp-v1-c-downlink-egress-packets': GTPv1-C Downlink Egress Packets; 'gtp-v1-c-uplink-ingress-bytes': GTPv1-C Uplink Ingress Bytes; 'gtp-v1-c-uplink-egress-bytes': GTPv1-C Uplink Egress Bytes; 'gtp-v1-c-downlink-ingress-bytes': GTPv1-C Downlink Ingress Bytes; 'gtp-v1-c-downlink-egress-bytes': GTPv1-C Downlink Egress Bytes; 'gtp-v2-c-uplink-ingress-packets': GTPv2-C Uplink Ingress Packets; 'gtp-v2-c-uplink-egress-packets': GTPv2-C Uplink Egress Packets; 'gtp-v2-c-downlink-ingress-packets': GTPv2-C Downlink Ingress Packets; 'gtp-v2-c-downlink-egress-packets': GTPv2-C Downlink Egress Packets; 'gtp-v2-c-uplink-ingress-bytes': GTPv2-C Uplink Ingress Bytes; 'gtp-v2-c-uplink-egress-bytes': GTPv2-C Uplink Egress Bytes; 'gtp-v2-c-downlink-ingress-bytes': GTPv2-C Downlink Ingress Bytes; 'gtp-v2-c-downlink-egress-bytes': GTPv2-C Downlink Egress Bytes; 'gtp-u-uplink-ingress-packets': GTP-U Uplink Ingress Packets; 'gtp-u-uplink-egress-packets': GTP-U Uplink Egress Packets; 'gtp-u-downlink-ingress-packets': GTP-U Downlink Ingress Packets; 'gtp-u-downlink-egress-packets': GTP-U Downlink Egress Packets; 'gtp-u-uplink-ingress-bytes': GTP-U Uplink Ingress Bytes; 'gtp-u-uplink-egress-bytes': GTP-U Uplink Egress Bytes; 'gtp-u-downlink-ingress-bytes': GTP-U Downlink Ingress Bytes; 'gtp-u-downlink-egress-bytes': GTP-U Downlink Egress Bytes; 'gtp-v0-c-create-synced': GTPv0-C Tunnel Create Synced; 'gtp-v1-c-create-synced': GTPv1-C Tunnel Create Synced; 'gtp-v2-c-create-synced': GTPv2-C Tunnel Create Synced; 'gtp-v0-c-delete-synced': GTPv0-C Tunnel Delete Synced; 'gtp-v1-c-delete-synced': GTPv1-C Tunnel Delete Synced; 'gtp-v2-c-delete-synced': GTPv2-C Tunnel Delete Synced;

Type: string

Supported Values: gtp-smp-no-action-with-u-create, blade-gtp-smp-no-action-with-u-create, gtp-info-ext-not-packed, gtp-sync-new-conn-create, gtp-smp-not-found-inter-pu, blade-gtp-smp-not-found-inter-pu, gtp-inter-pu-u-create-sent, gtp-inter-pu-u-delete-sent, gtp-inter-pu-c-query-sent, blade-gtp-inter-pu-u-create-sent, blade-gtp-inter-pu-u-delete-sent, blade-gtp-inter-pu-c-query-sent, gtp-inter-pu-u-create-tx-fail, gtp-inter-pu-u-delete-tx-fail, gtp-inter-pu-c-query-tx-fail, blade-gtp-inter-pu-u-create-tx-fail, blade-gtp-inter-pu-u-delete-tx-fail, blade-gtp-inter-pu-c-query-tx-fail, gtp-inter-pu-u-create-recv, gtp-inter-pu-u-delete-recv, gtp-inter-pu-c-query-recv, blade-gtp-inter-pu-u-create-recv, blade-gtp-inter-pu-u-delete-recv, blade-gtp-inter-pu-c-query-recv, gtp-inter-pu-u-create-drop-no-smp, blade-gtp-inter-pu-u-create-drop-no-smp, gtp-inter-pu-u-delete-drop-no-smp, blade-gtp-inter-pu-u-delete-drop-no-smp, gtp-inter-pu-u-create-error, blade-gtp-inter-pu-u-create-error, gtp-inter-pu-u-delete-error, blade-gtp-inter-pu-u-delete-error, gtp-inter-pu-no-rsp-to-query, blade-gtp-inter-pu-no-rsp-to-query, gtp-fwd-tuple-dst-updated, gtp-rev-tuple-dst-updated, gtp-c-conn-with-no-dst, gtp-sync-rx-create-ext-bit-counter-inter-pu, gtp-query-pkt-tx-counter-gtp-c, gtp-query-pkt-tx-counter-gtp-u, gtp-query-pkt-tx-counter-gtp-echo, gtp-sync-tx-inter-pu-no-vnp-error, gtp-sync-tx-inter-pu-no-gtp-u-ext, gtp-sync-tx-inter-pu-no-ug-error, gtp-sync-tx-inter-pu-no-msg-hdr-error, gtp-sync-tx-inter-pu-no-data-error, gtp-sync-tx-fw-drop-session-create, gtp-query-pkt-rx-counter-gtp-c, gtp-query-pkt-rx-counter-gtp-u, gtp-query-pkt-rx-counter-gtp-echo, gtp-sync-rx-del-c-counter, gtp-sync-rx-del-u-counter, gtp-sync-rx-del-echo-counter, gtp-sync-rx-create-c-counter, gtp-sync-rx-create-u-counter, gtp-sync-rx-create-echo-counter, gtp-sync-tx-create-c-counter, gtp-sync-tx-create-u-counter, gtp-sync-tx-create-echo-counter, gtp-sync-tx-delete-c-counter, gtp-sync-tx-delete-u-counter, gtp-sync-tx-delete-echo-counter, gtp-sync-rx-del-no-such-c-session, gtp-sync-rx-del-no-such-u-session, gtp-sync-rx-del-no-such-echo-session, gtp-c-match-c-smp-with-del-flag, gtp-c-match-c-smp-with-ho-flag, gtp-c-smp-sig-check-failed, blade-gtp-c-smp-sig-check-failed, gtp-u-smp-sig-check-failed, blade-gtp-u-smp-sig-check-failed, gtp-smp-sig-check-failed, blade-gtp-smp-sig-check-failed, gtp-c-fail-conn-create-slow, gtp-u-fail-conn-create-slow, gtp-pathm-fail-conn-create-slow, gtp-v0-c-uplink-ingress-packets, gtp-v0-c-uplink-egress-packets, gtp-v0-c-downlink-ingress-packets, gtp-v0-c-downlink-egress-packets, gtp-v0-c-uplink-ingress-bytes, gtp-v0-c-uplink-egress-bytes, gtp-v0-c-downlink-ingress-bytes, gtp-v0-c-downlink-egress-bytes, gtp-v1-c-uplink-ingress-packets, gtp-v1-c-uplink-egress-packets, gtp-v1-c-downlink-ingress-packets, gtp-v1-c-downlink-egress-packets, gtp-v1-c-uplink-ingress-bytes, gtp-v1-c-uplink-egress-bytes, gtp-v1-c-downlink-ingress-bytes, gtp-v1-c-downlink-egress-bytes, gtp-v2-c-uplink-ingress-packets, gtp-v2-c-uplink-egress-packets, gtp-v2-c-downlink-ingress-packets, gtp-v2-c-downlink-egress-packets, gtp-v2-c-uplink-ingress-bytes, gtp-v2-c-uplink-egress-bytes, gtp-v2-c-downlink-ingress-bytes, gtp-v2-c-downlink-egress-bytes, gtp-u-uplink-ingress-packets, gtp-u-uplink-egress-packets, gtp-u-downlink-ingress-packets, gtp-u-downlink-egress-packets, gtp-u-uplink-ingress-bytes, gtp-u-uplink-egress-bytes, gtp-u-downlink-ingress-bytes

counters4

Description 'gtp-v0-c-create-sync-rx': GTPv0-C Tunnel Create Sync Received on Standby; 'gtp-v1-c-create-sync-rx': GTPv1-C Tunnel Create Sync Received on Standby; 'gtp-v2-c-create-sync-rx': GTPv2-C Tunnel Create Sync Received on Standby; 'gtp-v0-c-delete-sync-rx': GTPv0-C Tunnel Delete Sync Received on Standby; 'gtp-v1-c-delete-sync-rx': GTPv1-C Tunnel Delete Sync Received on Standby; 'gtp-v2-c-delete-sync-rx': GTPv2-C Tunnel Delete Sync Received on Standby; 'gtp-handover-synced': GTP Handover Synced; 'gtp-handover-sync-rx': GTP Handover Sync Received on Standby; 'gtp-smp-add-bearer-synced': GTP SMP Add Bearer Synced; 'gtp-smp-del-bearer-synced': GTP SMP Del Bearer Synced; 'gtp-smp-additional-bearer-synced': GTP SMP Additional Bearer Synced; 'gtp-smp-add-bearer-sync-rx': GTP SMP Add Bearer Sync Received on Standby; 'gtp-smp-del-bearer-sync-rx': GTP SMP Del Bearer Sync Received on Standby; 'gtp-smp-additional-bearer-sync-rx': GTP SMP Additional Bearer Sync Received on Standby; 'gtp-add-bearer-sync-not-rx-

on-standby': GTP Add Bearer Sync Not Received on Standby; 'gtp-add-bearer-sync-with-periodic-update-on-standby': GTP Bearer Added on Standby with Periodic Sync; 'gtp-delete-bearer-sync-with-periodic-update-on-standby': GTP Bearer Deleted on Standy with Periodic Sync; 'gtp-v0-c-echo-create-synced': GTPv0-C Echo Create Synced; 'gtp-v1-c-echo-create-synced': GTPv1-C Echo Create Synced; 'gtp-v2-c-echo-create-synced': GTPv2-C Echo Create Synced; 'gtp-v0-c-echo-create-sync-rx': GTPv0-C-Echo Create Sync Received on Standby; 'gtp-v1-c-echo-create-sync-rx': GTPv1-C-Echo Create Sync Received on Standby; 'gtp-v2-c-echo-create-sync-rx': GTPv2-C-Echo Create Sync Received on Standby; 'gtp-v0-c-echo-del-synced': GTPv0-C Echo Delete Synced; 'gtp-v1-c-echo-del-synced': GTPv1-C Echo Delete Synced; 'gtp-v2-c-echo-del-synced': GTPv2-C Echo Delete Synced; 'gtp-v0-c-echo-del-sync-rx': GTPv0-C-Echo Delete Sync Received on Standby; 'gtp-v1-c-echo-del-sync-rx': GTPv1-C-Echo Delete Sync Received on Standby; 'gtp-v2-c-echo-del-sync-rx': GTPv2-C-Echo Delete Sync Received on Standby; 'drop-gtp-conn-creation-standby': GTP Conn creation on Standby Drop; 'gtp-u-synced-before-control': GTP-U Tunnel synced before corresponding GTP-C; 'gtp-c-l5-synced-before-l3': GTP-C L5 conn synced before corresponding L3 GTP-C conn; 'gtp-smp-path-del-synced': GTP SMP path delete Synced; 'gtp-smp-path-del-sync-rx': GTP SMP path delete Sync Received on Standby; 'gtp-not-enabled-on-standby': GTP Not Enabled on Standby; 'gtp-ip-version-v4-v6': GTP IP versions of V4&V6 in FTEID; 'drop-gtp-ip-version-mismatch-fteid': GTP IP version mismatch for req & response FTEIDs; 'drop-gtp-ip-version-mismatch-ho-fteid': GTP IP version mismatch in Handover SGW FTEID; 'gtp-u-message-length-mismatch': GTP-U Message Length Mismatch Across Layers; 'gtp-path-message-length-mismatch': GTP-Path Message Length Mismatch Across Layers; 'drop-gtp-missing-cond-ie-bearer-ctx': Missing conditional IE in bearer context Drop; 'drop-gtp-bearer-not-found-in-resp': GTP Bearer not found in response; 'gtp-stateless-forward': GTP Stateless Forward; 'gtp-l3-conn-deleted': GTP L3 conn deleted; 'gtp-l5-conn-created': GTP L5 conn created; 'gtp-monitor-forward': GTP messages forwarded via monitor mode; 'gtp-u-monitor-forward': GTP-U messages forwarded via monitor mode; 'gtp-u_inner-ip-not-present': GTP-U inner IP not present; 'gtp-ext_hdr-incorrect-length': GTP Extension header incorrect length;

Type: string

Supported Values: gtp-u-downlink-egress-bytes, gtp-v0-c-create-synced, gtp-v1-c-create-synced, gtp-v2-c-create-synced, gtp-v0-c-delete-synced, gtp-v1-c-delete-synced, gtp-v2-c-delete-synced, gtp-v0-c-create-sync-rx, gtp-v1-c-create-sync-rx, gtp-v2-c-create-sync-rx, gtp-v0-c-delete-sync-rx, gtp-v1-c-delete-sync-rx, gtp-v2-c-delete-sync-rx, gtp-handover-synced, gtp-handover-sync-rx, gtp-smp-add-bearer-synced, gtp-smp-del-bearer-synced, gtp-smp-additional-bearer-synced, gtp-smp-add-bearer-sync-rx, gtp-smp-del-bearer-sync-rx, gtp-smp-additional-bearer-sync-rx, gtp-add-bearer-sync-not-rx-on-standby, gtp-add-bearer-sync-with-periodic-update-on-standby, gtp-delete-bearer-sync-with-periodic-update-on-standby, gtp-v0-c-echo-create-synced, gtp-v1-c-echo-create-synced, gtp-v2-c-echo-create-synced, gtp-v0-c-echo-create-sync-rx, gtp-v1-c-echo-create-sync-rx, gtp-v2-c-echo-create-sync-rx, gtp-v0-c-echo-del-synced, gtp-v1-c-echo-del-synced, gtp-v2-c-echo-del-synced, gtp-v0-c-echo-del-sync-rx, gtp-v1-c-echo-del-sync-rx, gtp-v2-c-echo-del-sync-rx, drop-gtp-conn-creation-standby, gtp-u-synced-before-control, gtp-c-l5-synced-before-l3, gtp-smp-path-del-synced, gtp-smp-path-del-sync-rx, gtp-not-enabled-on-standby, gtp-ip-version-v4-v6, drop-gtp-ip-version-mismatch-fteid, drop-gtp-ip-version-mismatch-ho-fteid, gtp-u-message-length-mismatch, gtp-path-message-length-mismatch, drop-gtp-missing-cond-ie-bearer-ctx, drop-gtp-bearer-not-found-in-resp, gtp-stateless-forward, gtp-l3-conn-deleted, gtp-l5-conn-created, gtp-monitor-forward, gtp-u-monitor-forward, gtp-u_inner-ip-not-present, gtp-ext_hdr-incorrect-length

2.53.33 fw gtp apn-prefix

Dynamic GTP APN Prefix counters

apn-prefix Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	apn-prefix
Element URI	/axapi/v3/fw/gtp/apn-prefix
Element Attributes	apn-prefix_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/fw/gtp/apn-prefix/stats
Schema	`apn-prefix schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/gtp/apn-prefix

apn-prefix attributes

Get Object

GET

/axapi/v3/fw/gtp/apn-prefix

apn-prefix attributes

Modify Object

POST

/axapi/v3/fw/gtp/apn-prefix

apn-prefix attributes

Replace Object

PUT

/axapi/v3/fw/gtp/apn-prefix

apn-prefix attributes

Delete Object

DELETE

/axapi/v3/fw/gtp/apn-prefix

apn-prefix attributes

apn-prefix attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.53.34 fw gtp apn-prefix stats

Statistics for the object apn-prefix

apn-prefix Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	apn-prefix
Element URI	/axapi/v3/fw/gtp/apn-prefix/stats
Element Attributes	apn-prefix_attributes
Partition Visibility	None
Schema	`apn-prefix schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/gtp/apn-prefix/stats

apn-prefix attributes

Get Object

GET

/axapi/v3/fw/gtp/apn-prefix/stats

apn-prefix attributes

Modify Object

POST

/axapi/v3/fw/gtp/apn-prefix/stats

apn-prefix attributes

Replace Object

PUT

/axapi/v3/fw/gtp/apn-prefix/stats

apn-prefix attributes

Delete Object

DELETE

/axapi/v3/fw/gtp/apn-prefix/stats

apn-prefix attributes

apn-prefix attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

apn-imsi-flt-message-monitor

Description GTP-C Message forwarded via monitor mode at APN-IMSI filtering policy

Type: number

Format: counter

downlink-bytes

Description Downlink Bytes

Type: number

Format: counter

downlink-pkts

Description Downlink Packets

Type: number

Format: counter

drop-flt-apn-filtering

Description Filtering Drop: APN IMSI Filtering

Type: number

Format: counter

drop-flt-gtp-in-gtp

Description Filtering Drop: GTP in GTP Tunnel Present

Type: number

Format: counter

drop-flt-message-filtering

Description Filtering Drop: Message Type Not Permitted on Interface

Type: number

Format: counter

drop-flt-msisdn-filtering

Description Filtering Drop: MSISDN Filtering

Type: number

Format: counter

drop-flt-rat-type-filtering

Description Filtering Drop: RAT Type Filtering

Type: number

Format: counter

drop-rl-gtp-u-downlink-byte

Description Rate-limit Drop: GTP-U Downlink byte rate

Type: number

Format: counter

drop-rl-gtp-u-downlink-packet

Description Rate-limit Drop: GTP-U Downlink packet rate

Type: number

Format: counter

drop-rl-gtp-u-max-concurrent-tunnels

Description Rate-limit Drop: GTP-U Concurrent Tunnels

Type: number

Format: counter

drop-rl-gtp-u-total-byte

Description Rate-limit Drop: GTP-U Total byte rate

Type: number

Format: counter

drop-rl-gtp-u-total-packet

Description Rate-limit Drop: GTP-U Total packet rate

Type: number

Format: counter

drop-rl-gtp-u-tunnel-create

Description Rate-limit Drop: GTP-U Tunnel Creation rate

Type: number

Format: counter

drop-rl-gtp-u-uplink-byte

Description Rate-limit Drop: GTP-U Uplink byte rate

Type: number

Format: counter

drop-rl-gtp-u-uplink-packet

Description Rate-limit Drop: GTP-U Uplink packet rate

Type: number

Format: counter

drop-rl-gtp-v0-c-agg

Description Rate-limit Drop: Maximum GTPv0-C messages rate

Type: number

Format: counter

drop-rl-gtp-v1-c-agg

Description Rate-limit Drop: Maximum GTPv1-C messages rate

Type: number

Format: counter

drop-rl-gtp-v1-c-create-pdp-request

Description Rate-limit Drop: GTPv1-C Create PDP Req rate

Type: number

Format: counter

drop-rl-gtp-v1-c-update-pdp-request

Description Rate-limit Drop: GTPv1-C Update PDP Req rate

Type: number

Format: counter

drop-rl-gtp-v2-c-agg

Description Rate-limit Drop: Maximum GTPv2-C messages rate

Type: number

Format: counter

drop-rl-gtp-v2-c-create-session-request

Description Rate-limit Drop: GTPv2-C Create Session Req rate

Type: number

Format: counter

drop-rl-gtp-v2-c-modify-bearer-request

Description Rate-limit Drop: GTPv2-C Modify Bearer Req rate

Type: number

Format: counter

drop-vld-country-code-mismatch

Description Validation Drop: Country Code Mismatch in IMSI and MSISDN

Type: number

Format: counter

drop-vld-cross-layer-correlation

Description Validation Drop: Cross Layer IP Address Mismatch

Type: number

Format: counter

drop-vld-gtp-bearer-count-exceed

Description Validation Drop: GTP Bearer count exceeded max (11)

Type: number

Format: counter

drop-vld-gtp-invalid-apn-len-drop

Description Validation Drop: GTP-C Invalid APN Length Drop

Type: number

Format: counter

drop-vld-gtp-invalid-imsi-len-drop

Description Validation Drop: GTP-C Invalid IMSI Length Drop

Type: number

Format: counter

drop-vld-gtp-u-spoofed-source-address

Description Validation Drop: GTP-U IP Address Spoofed

Type: number

Format: counter

drop-vld-gtp-v0-c-ie-len-exceed-msg-len

Description Validation Drop: GTPv0-C IE Length Exceeds Message Length

Type: number

Format: counter

drop-vld-gtp-v0-c-message-dropped-apn-filtering-no-apn

Description GTPv0-C APN/IMSI Filtering dropped (No APN)

Type: number

Format: counter

drop-vld-gtp-v0-c-message-length-mismatch

Description Validation Drop: GTPv0-C Message Length Mismatch Across Layers

Type: number

Format: counter

drop-vld-gtp-v0-c-message-with-teid-zero-expected

Description Validation Drop: GTPv0-C PDU Notification Request with TEID

Type: number

Format: counter

drop-vld-gtp-v1-c-ie-len-exceed-msg-len

Description Validation Drop: GTPv1-C IE Length Exceeds Message Length

Type: number

Format: counter

drop-vld-gtp-v1-c-message-dropped-apn-filtering-no-apn

Description GTPv1-C APN/IMSI Filtering dropped (No APN)

Type: number

Format: counter

drop-vld-gtp-v1-c-message-length-mismatch

Description Validation Drop: GTPv1-C Message Length Mismatch Across Layers

Type: number

Format: counter

drop-vld-gtp-v1-c-message-with-teid-zero-expected

Description Validation Drop: GTPv1-C PDU Notification Request with TEID

Type: number

Format: counter

drop-vld-gtp-v2-c-ie-len-exceed-msg-len

Description Validation Drop: GTPv2-C IE Length Exceeds Message Length

Type: number

Format: counter

drop-vld-gtp-v2-c-message-dropped-apn-filtering-no-apn

Description GTPv2-C APN/IMSI Filtering dropped (No APN)

Type: number

Format: counter

drop-vld-gtp-v2-c-message-length-mismatch

Description Validation Drop: GTPv2-C Message Length Mismatch Across Layers

Type: number

Format: counter

drop-vld-gtp-v2-c-message-with-teid-zero-expected

Description Validation Drop: GTPv2-C Create Session Request with TEID

Type: number

Format: counter

drop-vld-gtp-v2-wrong-lbi-create-bearer-req

Description Validation Drop: GTPV2-C Wrong LBI in Create Bearer Request

Type: number

Format: counter

drop-vld-gtpv0-seqnum-buffer-full

Description Validation Drop: GTPV0-C conn Sequence number Buffer Full

Type: number

Format: counter

drop-vld-gtpv0-subscriber-attr-miss

Description Validation Drop: GTPV0-c Subscriber Attributes Missing

Type: number

Format: counter

drop-vld-gtpv1-seqnum-buffer-full

Description Validation Drop: GTPV1-C conn Sequence number Buffer Full

Type: number

Format: counter

drop-vld-gtpv1-subscriber-attr-miss

Description Validation Drop: GTPV1-c Subscriber Attributes Missing

Type: number

Format: counter

drop-vld-gtpv2-seqnum-buffer-full

Description Validation Drop: GTPV2-C conn Sequence number Buffer Full

Type: number

Format: counter

drop-vld-gtpv2-subscriber-attr-miss

Description Validation Drop: GTPV2-c Subscriber Attributes Missing

Type: number

Format: counter

drop-vld-invalid-flow-label-v0

Description Validation Drop: Invalid Flow Label in GTPv0-C Header

Type: number

Format: counter

drop-vld-invalid-pkt-len-piggyback

Description Validation Drop: Piggyback message invalid packet length

Type: number

Format: counter

drop-vld-invalid-teid

Description Validation Drop: Invalid TEID Value

Type: number

Format: counter

drop-vld-mandatory-information-element

Description Validation Drop: Mandatory IE Not Present

Type: number

Format: counter

drop-vld-message-length

Description Validation Drop: Message Length Exceeded

Type: number

Format: counter

drop-vld-out-of-order-ie

Description Validation Drop: GTPv1-C Message Out of Order IE

Type: number

Format: counter

drop-vld-out-of-state

Description Validation Drop: Out Of State GTP Message

Type: number

Format: counter

drop-vld-out-of-state-ie

Description Validation Drop: Unexpected IE Present in Message

Type: number

Format: counter

drop-vld-protocol-flag-unset

Description Validation Drop: Protocol flag in Header Field not Set

Type: number

Format: counter

drop-vld-reserved-field-set

Description Validation Drop: Reserved Header Field Set

Type: number

Format: counter

drop-vld-reserved-information-element

Description Validation Drop: Reserved IE Field Present

Type: number

Format: counter

drop-vld-sanity-failed-piggyback

Description Validation Drop: piggyback message anomaly failed

Type: number

Format: counter

drop-vld-sequence-num-correlation

Description Validation Drop: GTP-C Sequence number Mismatch

Type: number

Format: counter

drop-vld-tunnel-id-flag

Description Validation Drop: Tunnel Header Flag Not Set

Type: number

Format: counter

drop-vld-unsupported-message-type

Description Validation Drop: Message type not supported by GTP Version

Type: number

Format: counter

drop-vld-v0-reserved-message-drop

Description Validation Drop: GTPv0-C Reserved Message Drop

Type: number

Format: counter

drop-vld-v1-reserved-message-drop

Description Validation Drop: GTPv1-C Reserved Message Drop

Type: number

Format: counter

drop-vld-v2-reserved-message-drop

Description Validation Drop: GTPv2-C Reserved Message Drop

Type: number

Format: counter

drop-vld-version-not-supported

Description Validation Drop: Invalid GTP version

Type: number

Format: counter

flt-message-monitor

Description GTP-C Message forwarded via monitor mode at message filtering policy

Type: number

Format: counter

gen-message-length-monitor

Description GTP Message forwarded via monitor mode at validation policy

Type: number

Format: counter

gtp-c-handover-in-progress-with-conn

Description GTP-C matching a conn with Handover In Progress

Type: number

Format: counter

gtp-in-gtp-flt-message-monitor

Description GTP-C Message forwarded via monitor mode at GTP-IN_GTP filtering policy

Type: number

Format: counter

gtp-path-management-message

Description GTP Path Management Messages Received

Type: number

Format: counter

gtp-u-tunnel-created

Description GTP-U Tunnel Created

Type: number

Format: counter

gtp-u-tunnel-deleted

Description GTP-U Tunnel Deleted

Type: number

Format: counter

gtp-v0-c-create-pdp-resp-unsuccess

Description GTPV0-C Create PDP Context Response Unsuccessful

Type: number

Format: counter

gtp-v0-c-half-open-tunnel-closed

Description GTPv0-C Half open tunnel closed

Type: number

Format: counter

gtp-v0-c-message-skipped-apn-filtering-no-imsi

Description GTPv0-C APN/IMSI Filtering Skipped (No IMSI)

Type: number

Format: counter

gtp-v0-c-message-skipped-msisdn-filtering-no-msisdn

Description GTPv0-C MSISDN Filtering Skipped (No MSISDN)

Type: number

Format: counter

gtp-v0-c-packet-dummy-msisdn

Description GTPv0-C Packet With Dummy MSISDN Forwarded

Type: number

Format: counter

gtp-v0-c-pdu-notification-reject-request-forward

Description GTPv0-C PDU Notification Reject Request Forward

Type: number

Format: counter

gtp-v0-c-pdu-notification-request-forward

Description GTPv0-C PDU Notification Request Forward

Type: number

Format: counter

gtp-v0-c-reserved-message-allow

Description GTPv0-C Reserved Message Allow

Type: number

Format: counter

gtp-v0-c-tunnel-closed

Description GTPv0-C Tunnel Marked Deleted

Type: number

Format: counter

gtp-v0-c-tunnel-created

Description GTPv0-C Tunnel Created

Type: number

Format: counter

gtp-v0-c-tunnel-deleted

Description GTPv0-C Tunnel Deleted

Type: number

Format: counter

gtp-v0-c-tunnel-deleted-restart

Description GTPv0-C Tunnel Deleted with Restart/failure

Type: number

Format: counter

gtp-v0-c-tunnel-half-closed

Description GTPv0-C Tunnel Delete Request

Type: number

Format: counter

gtp-v0-c-tunnel-half-open

Description GTPv0-C Half open tunnel created

Type: number

Format: counter

gtp-v0-c-update-pdp-resp-unsuccess

Description GTPV0-C Update PDP Context Response Unsuccessful

Type: number

Format: counter

gtp-v1-c-create-pdp-resp-unsuccess

Description GTPV1-C Create PDP Context Response Unsuccessful

Type: number

Format: counter

gtp-v1-c-half-open-tunnel-closed

Description GTPv1-C Half open tunnel closed

Type: number

Format: counter

gtp-v1-c-message-skipped-apn-filtering-no-imsi

Description GTPv1-C APN/IMSI Filtering Skipped (No IMSI)

Type: number

Format: counter

gtp-v1-c-message-skipped-msisdn-filtering-no-msisdn

Description GTPv1-C MSISDN Filtering Skipped (No MSISDN)

Type: number

Format: counter

gtp-v1-c-packet-dummy-msisdn

Description GTPv1-C Packet With Dummy MSISDN Forwarded

Type: number

Format: counter

gtp-v1-c-pdu-notification-reject-request-forward

Description GTPv1-C PDU Notification Reject Request Forward

Type: number

Format: counter

gtp-v1-c-pdu-notification-request-forward

Description GTPv1-C PDU Notification Request Forward

Type: number

Format: counter

gtp-v1-c-reserved-message-allow

Description GTPv1-C Reserved Message Allow

Type: number

Format: counter

gtp-v1-c-tunnel-closed

Description GTPv1-C Tunnel Marked Deleted

Type: number

Format: counter

gtp-v1-c-tunnel-created

Description GTPv1-C Tunnel Created

Type: number

Format: counter

gtp-v1-c-tunnel-deleted

Description GTPv1-C Tunnel Deleted

Type: number

Format: counter

gtp-v1-c-tunnel-deleted-restart

Description GTPv1-C Tunnel Deleted with Restart/failure

Type: number

Format: counter

gtp-v1-c-tunnel-half-closed

Description GTPv1-C Tunnel Delete Request

Type: number

Format: counter

gtp-v1-c-tunnel-half-open

Description GTPv1-C Half open tunnel created

Type: number

Format: counter

gtp-v1-c-update-pdp-resp-unsuccess

Description GTPV1-C Update PDP Context response Unsuccessful

Type: number

Format: counter

gtp-v2-c-create-sess-resp-unsuccess

Description GTPV2-C Create Session Response Unsuccessful

Type: number

Format: counter

gtp-v2-c-half-open-tunnel-closed

Description GTPv2-C Half open tunnel closed

Type: number

Format: counter

gtp-v2-c-message-skipped-apn-filtering-no-imsi

Description GTPv2-C APN/IMSI Filtering Skipped (No IMSI)

Type: number

Format: counter

gtp-v2-c-message-skipped-msisdn-filtering-no-msisdn

Description GTPv2-C MSISDN Filtering Skipped (No MSISDN)

Type: number

Format: counter

gtp-v2-c-mod_bearer-resp-unsuccess

Description GTPV2-C Modify Bearer Response Unsuccessful

Type: number

Format: counter

gtp-v2-c-packet-dummy-msisdn

Description GTPv2-C Packet With Dummy MSISDN Forwarded

Type: number

Format: counter

gtp-v2-c-piggyback-message

Description GTPv2-C Piggyback Messages seen

Type: number

Format: counter

gtp-v2-c-reserved-message-allow

Description GTPv2-C Reserved Message Allow

Type: number

Format: counter

gtp-v2-c-tunnel-closed

Description GTPv2-C Tunnel Marked Deleted

Type: number

Format: counter

gtp-v2-c-tunnel-created

Description GTPv2-C Tunnel Created

Type: number

Format: counter

gtp-v2-c-tunnel-deleted

Description GTPv2-C Tunnel Deleted

Type: number

Format: counter

gtp-v2-c-tunnel-deleted-restart

Description GTPv2-C Tunnel Deleted with Restart/failure

Type: number

Format: counter

gtp-v2-c-tunnel-half-closed

Description GTPv2-C Tunnel Delete Request

Type: number

Format: counter

gtp-v2-c-tunnel-half-open

Description GTPv2-C Half open tunnel created

Type: number

Format: counter

key-name

Description

Type: string

Format: counter

msisdn-flt-message-monitor

Description GTP-C Message forwarded via monitor mode at Msisdn filtering policy

Type: number

Format: counter

rat-flt-message-monitor

Description GTP-C Message forwarded via monitor mode at rat filtering policy

Type: number

Format: counter

rl-message-monitor

Description GTP Message forwarded via monitor mode at rate-limit policy

Type: number

Format: counter

u-downlink-bytes

Description Downlink Bytes

Type: number

Format: counter

u-downlink-pkts

Description GTP-U Downlink Packets

Type: number

Format: counter

u-uplink-bytes

Description Uplink Bytes

Type: number

Format: counter

u-uplink-pkts

Description Uplink Packets

Type: number

Format: counter

uplink-bytes

Description Uplink Bytes

Type: number

Format: counter

uplink-pkts

Description Uplink Packets

Type: number

Format: counter

vld-message-monitor

Description GTP Message forwarded via monitor mode at validation policy

Type: number

Format: counter

2.53.35 fw gtp network-element

Dynamic GTP Network Element Counters

network-element Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	network-element
Element URI	/axapi/v3/fw/gtp/network-element
Element Attributes	network-element_attributes
Partition Visibility	shared
Statistics Data URI	/axapi/v3/fw/gtp/network-element/stats
Schema	`network-element schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/gtp/network-element

network-element attributes

Get Object

GET

/axapi/v3/fw/gtp/network-element

network-element attributes

Modify Object

POST

/axapi/v3/fw/gtp/network-element

network-element attributes

Replace Object

PUT

/axapi/v3/fw/gtp/network-element

network-element attributes

Delete Object

DELETE

/axapi/v3/fw/gtp/network-element

network-element attributes

network-element attributes

uuid

Description uuid of the object

Type: string

Maximum Length: 64 characters

Maximum Length: 1 characters

2.53.36 fw gtp network-element stats

Statistics for the object network-element

network-element Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	network-element
Element URI	/axapi/v3/fw/gtp/network-element/stats
Element Attributes	network-element_attributes
Partition Visibility	None
Schema	`network-element schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/gtp/network-element/stats

network-element attributes

Get Object

GET

/axapi/v3/fw/gtp/network-element/stats

network-element attributes

Modify Object

POST

/axapi/v3/fw/gtp/network-element/stats

network-element attributes

Replace Object

PUT

/axapi/v3/fw/gtp/network-element/stats

network-element attributes

Delete Object

DELETE

/axapi/v3/fw/gtp/network-element/stats

network-element attributes

network-element attributes

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

apn-imsi-flt-message-monitor

Description GTP-C Message forwarded via monitor mode at APN-IMSI filtering policy

Type: number

Format: counter

downlink-bytes

Description Downlink Bytes

Type: number

Format: counter

downlink-pkts

Description Downlink Packets

Type: number

Format: counter

drop-flt-apn-filtering

Description Filtering Drop: APN IMSI Filtering

Type: number

Format: counter

drop-flt-gtp-in-gtp

Description Filtering Drop: GTP in GTP Tunnel Present

Type: number

Format: counter

drop-flt-message-filtering

Description Filtering Drop: Message Type Not Permitted on Interface

Type: number

Format: counter

drop-flt-msisdn-filtering

Description Filtering Drop: MSISDN Filtering

Type: number

Format: counter

drop-flt-rat-type-filtering

Description Filtering Drop: RAT Type Filtering

Type: number

Format: counter

drop-rl-gtp-u-downlink-byte

Description Rate-limit Drop: GTP-U Downlink byte rate

Type: number

Format: counter

drop-rl-gtp-u-downlink-packet

Description Rate-limit Drop: GTP-U Downlink packet rate

Type: number

Format: counter

drop-rl-gtp-u-max-concurrent-tunnels

Description Rate-limit Drop: GTP-U Concurrent Tunnels

Type: number

Format: counter

drop-rl-gtp-u-total-byte

Description Rate-limit Drop: GTP-U Total byte rate

Type: number

Format: counter

drop-rl-gtp-u-total-packet

Description Rate-limit Drop: GTP-U Total packet rate

Type: number

Format: counter

drop-rl-gtp-u-tunnel-create

Description Rate-limit Drop: GTP-U Tunnel Creation rate

Type: number

Format: counter

drop-rl-gtp-u-uplink-byte

Description Rate-limit Drop: GTP-U Uplink byte rate

Type: number

Format: counter

drop-rl-gtp-u-uplink-packet

Description Rate-limit Drop: GTP-U Uplink packet rate

Type: number

Format: counter

drop-rl-gtp-v0-c-agg

Description Rate-limit Drop: Maximum GTPv0-C messages rate

Type: number

Format: counter

drop-rl-gtp-v1-c-agg

Description Rate-limit Drop: Maximum GTPv1-C messages rate

Type: number

Format: counter

drop-rl-gtp-v1-c-create-pdp-request

Description Rate-limit Drop: GTPv1-C Create PDP Req rate

Type: number

Format: counter

drop-rl-gtp-v1-c-update-pdp-request

Description Rate-limit Drop: GTPv1-C Update PDP Req rate

Type: number

Format: counter

drop-rl-gtp-v2-c-agg

Description Rate-limit Drop: Maximum GTPv2-C messages rate

Type: number

Format: counter

drop-rl-gtp-v2-c-create-session-request

Description Rate-limit Drop: GTPv2-C Create Session Req rate

Type: number

Format: counter

drop-rl-gtp-v2-c-modify-bearer-request

Description Rate-limit Drop: GTPv2-C Modify Bearer Req rate

Type: number

Format: counter

drop-vld-country-code-mismatch

Description Validation Drop: Country Code Mismatch in IMSI and MSISDN

Type: number

Format: counter

drop-vld-cross-layer-correlation

Description Validation Drop: Cross Layer IP Address Mismatch

Type: number

Format: counter

drop-vld-gtp-invalid-apn-len-drop

Description Validation Drop: GTP-C Invalid APN Length Drop

Type: number

Format: counter

drop-vld-gtp-invalid-imsi-len-drop

Description Validation Drop: GTP-C Invalid IMSI Length Drop

Type: number

Format: counter

drop-vld-gtp-u-spoofed-source-address

Description Validation Drop: GTP-U IP Address Spoofed

Type: number

Format: counter

drop-vld-gtp-v0-c-ie-len-exceed-msg-len

Description Validation Drop: GTPv0-C IE Length Exceeds Message Length

Type: number

Format: counter

drop-vld-gtp-v0-c-message-dropped-apn-filtering-no-apn

Description Validation Drop: GTPv0-C APN/IMSI Filtering dropped (No APN)

Type: number

Format: counter

drop-vld-gtp-v0-c-message-length-mismatch

Description Validation Drop: GTPv0-C Message Length Mismatch Across Layers

Type: number

Format: counter

drop-vld-gtp-v0-c-message-with-teid-zero-expected

Description Validation Drop: GTPv0-C PDU Notification Request with TEID

Type: number

Format: counter

drop-vld-gtp-v1-c-ie-len-exceed-msg-len

Description Validation Drop: GTPv1-C IE Length Exceeds Message Length

Type: number

Format: counter

drop-vld-gtp-v1-c-message-dropped-apn-filtering-no-apn

Description Validation Drop: GTPv1-C APN/IMSI Filtering dropped (No APN)

Type: number

Format: counter

drop-vld-gtp-v1-c-message-length-mismatch

Description Validation Drop: GTPv1-C Message Length Mismatch Across Layers

Type: number

Format: counter

drop-vld-gtp-v1-c-message-with-teid-zero-expected

Description Validation Drop: GTPv1-C PDU Notification Request with TEID

Type: number

Format: counter

drop-vld-gtp-v2-c-ie-len-exceed-msg-len

Description Validation Drop: GTPv2-C IE Length Exceeds Message Length

Type: number

Format: counter

drop-vld-gtp-v2-c-message-dropped-apn-filtering-no-apn

Description Validation Drop: GTPv2-C APN/IMSI Filtering dropped (No APN)

Type: number

Format: counter

drop-vld-gtp-v2-c-message-length-mismatch

Description Validation Drop: GTPv2-C Message Length Mismatch Across Layers

Type: number

Format: counter

drop-vld-gtp-v2-c-message-with-teid-zero-expected

Description Validation Drop: GTPv2-C Create Session Request with TEID

Type: number

Format: counter

drop-vld-gtp-v2-wrong-lbi-create-bearer-req

Description Validation Drop: GTPV2-C Wrong LBI in Create Bearer Request

Type: number

Format: counter

drop-vld-gtpv0-seqnum-buffer-full

Description Validation Drop: GTPV0-C conn Sequence number Buffer Full

Type: number

Format: counter

drop-vld-gtpv0-subscriber-attr-miss

Description Validation Drop: GTPV0-c Subscriber Attributes Missing

Type: number

Format: counter

drop-vld-gtpv1-seqnum-buffer-full

Description Validation Drop: GTPV1-C conn Sequence number Buffer Full

Type: number

Format: counter

drop-vld-gtpv1-subscriber-attr-miss

Description Validation Drop: GTPV1-c Subscriber Attributes Missing

Type: number

Format: counter

drop-vld-gtpv2-seqnum-buffer-full

Description Validation Drop: GTPV2-C conn Sequence number Buffer Full

Type: number

Format: counter

drop-vld-gtpv2-subscriber-attr-miss

Description Validation Drop: GTPV2-c Subscriber Attributes Missing

Type: number

Format: counter

drop-vld-invalid-flow-label-v0

Description Validation Drop: Invalid Flow Label in GTPv0-C Header

Type: number

Format: counter

drop-vld-invalid-pkt-len-piggyback

Description Validation Drop: Piggyback message invalid packet length

Type: number

Format: counter

drop-vld-invalid-teid

Description Validation Drop: Invalid TEID Value

Type: number

Format: counter

drop-vld-mandatory-information-element

Description Validation Drop: Mandatory IE Not Present

Type: number

Format: counter

drop-vld-message-length

Description Validation Drop: Message Length Exceeded

Type: number

Format: counter

drop-vld-out-of-order-ie

Description Validation Drop: GTPv1-C Message Out of Order IE

Type: number

Format: counter

drop-vld-out-of-state

Description Validation Drop: Out Of State GTP Message

Type: number

Format: counter

drop-vld-out-of-state-ie

Description Validation Drop: Unexpected IE Present in Message

Type: number

Format: counter

drop-vld-protocol-flag-unset

Description Validation Drop: Protocol flag in Header Field not Set

Type: number

Format: counter

drop-vld-reserved-field-set

Description Validation Drop: Reserved Header Field Set

Type: number

Format: counter

drop-vld-reserved-information-element

Description Validation Drop: Reserved IE Field Present

Type: number

Format: counter

drop-vld-sanity-failed-piggyback

Description Validation Drop: piggyback message anomaly failed

Type: number

Format: counter

drop-vld-sequence-num-correlation

Description Validation Drop: GTP-C Sequence number Mismatch

Type: number

Format: counter

drop-vld-tunnel-id-flag

Description Validation Drop: Tunnel Header Flag Not Set

Type: number

Format: counter

drop-vld-unsupported-message-type

Description Validation Drop: Message type not supported by GTP Version

Type: number

Format: counter

drop-vld-v0-reserved-message-drop

Description Validation Drop: GTPv0-C Reserved Message Drop

Type: number

Format: counter

drop-vld-v1-reserved-message-drop

Description Validation Drop: GTPv1-C Reserved Message Drop

Type: number

Format: counter

drop-vld-v2-reserved-message-drop

Description Validation Drop: GTPv2-C Reserved Message Drop

Type: number

Format: counter

drop-vld-version-not-supported

Description Validation Drop: Invalid GTP version

Type: number

Format: counter

drop_vld-gtp-bearer-count-exceed

Description Validation Drop: GTP Bearer count exceeded max (11)

Type: number

Format: counter

flt-message-monitor

Description GTP-C Message forwarded via monitor mode at message filtering policy

Type: number

Format: counter

gen-message-length-monitor

Description GTP Message forwarded via monitor mode at general policy

Type: number

Format: counter

gtp-c-handover-in-progress-with-conn

Description GTP-C matching a conn with Handover In Progress

Type: number

Format: counter

gtp-in-gtp-flt-message-monitor

Description GTP-C Message forwarded via monitor mode at GTP-IN_GTP filtering policy

Type: number

Format: counter

gtp-node-restart-gtp-c

Description GTP Node Restoration due to Recovery IE in GTP-C Message

Type: number

Format: counter

gtp-path-management-message

Description GTP Path Management Messages Received

Type: number

Format: counter

gtp-u-tunnel-created

Description GTP-U Tunnel Created

Type: number

Format: counter

gtp-u-tunnel-deleted

Description GTP-U Tunnel Deleted

Type: number

Format: counter

gtp-v0-c-create-pdp-resp-unsuccess

Description GTPv0-C Create PDP Context Response Unsuccessful

Type: number

Format: counter

gtp-v0-c-half-open-tunnel-closed

Description GTPv0-C Half open tunnel closed

Type: number

Format: counter

gtp-v0-c-message-skipped-apn-filtering-no-imsi

Description GTPv0-C APN/IMSI Filtering Skipped (No IMSI)

Type: number

Format: counter

gtp-v0-c-message-skipped-msisdn-filtering-no-msisdn

Description GTPv0-C MSISDN Filtering Skipped (No MSISDN)

Type: number

Format: counter

gtp-v0-c-packet-dummy-msisdn

Description GTPv0-C Packet With Dummy MSISDN Forwarded

Type: number

Format: counter

gtp-v0-c-pdu-notification-reject-request-forward

Description GTPv0-C PDU Notification Reject Request Forward

Type: number

Format: counter

gtp-v0-c-pdu-notification-request-forward

Description GTPv0-C PDU Notification Request Forward

Type: number

Format: counter

gtp-v0-c-reserved-message-allow

Description GTPv0-C Reserved Message Allow

Type: number

Format: counter

gtp-v0-c-tunnel-closed

Description GTPv0-C Tunnel Marked Deleted

Type: number

Format: counter

gtp-v0-c-tunnel-created

Description GTPv0-C Tunnel Created

Type: number

Format: counter

gtp-v0-c-tunnel-deleted

Description GTPv0-C Tunnel Deleted

Type: number

Format: counter

gtp-v0-c-tunnel-deleted-restart

Description GTPv0-C Tunnel Deleted with Restart/failure

Type: number

Format: counter

gtp-v0-c-tunnel-half-closed

Description GTPv0-C Tunnel Delete Request

Type: number

Format: counter

gtp-v0-c-tunnel-half-open

Description GTPv0-C Half open tunnel created

Type: number

Format: counter

gtp-v0-c-update-pdp-resp-unsuccess

Description GTPv0-C Update PDP Context Response Unsuccessful

Type: number

Format: counter

gtp-v1-c-create-pdp-resp-unsuccess

Description GTPv1-C Create PDP Context Response Unsuccessful

Type: number

Format: counter

gtp-v1-c-half-open-tunnel-closed

Description GTPv1-C Half open tunnel closed

Type: number

Format: counter

gtp-v1-c-message-skipped-apn-filtering-no-imsi

Description GTPv1-C APN/IMSI Filtering Skipped (No IMSI)

Type: number

Format: counter

gtp-v1-c-message-skipped-msisdn-filtering-no-msisdn

Description GTPv1-C MSISDN Filtering Skipped (No MSISDN)

Type: number

Format: counter

gtp-v1-c-packet-dummy-msisdn

Description GTPv0-C Packet With Dummy MSISDN Forwarded

Type: number

Format: counter

gtp-v1-c-pdu-notification-reject-request-forward

Description GTPv1-C PDU Notification Reject Request Forward

Type: number

Format: counter

gtp-v1-c-pdu-notification-request-forward

Description GTPv1-C PDU Notification Request Forward

Type: number

Format: counter

gtp-v1-c-reserved-message-allow

Description GTPv1-C Reserved Message Allow

Type: number

Format: counter

gtp-v1-c-tunnel-closed

Description GTPv1-C Tunnel Marked Deleted

Type: number

Format: counter

gtp-v1-c-tunnel-created

Description GTPv1-C Tunnel Created

Type: number

Format: counter

gtp-v1-c-tunnel-deleted

Description GTPv1-C Tunnel Deleted

Type: number

Format: counter

gtp-v1-c-tunnel-deleted-restart

Description GTPv1-C Tunnel Deleted with Restart/failure

Type: number

Format: counter

gtp-v1-c-tunnel-half-closed

Description GTPv1-C Tunnel Delete Request

Type: number

Format: counter

gtp-v1-c-tunnel-half-open

Description GTPv1-C Half open tunnel created

Type: number

Format: counter

gtp-v1-c-update-pdp-resp-unsuccess

Description GTPv1-C Update PDP Context Response Unsuccessful

Type: number

Format: counter

gtp-v2-c-create-sess-resp-unsuccess

Description GTPv2-C Create Session Response Unsuccessful

Type: number

Format: counter

gtp-v2-c-half-open-tunnel-closed

Description GTPv2-C Half open tunnel closed

Type: number

Format: counter

gtp-v2-c-message-skipped-apn-filtering-no-imsi

Description GTPv2-C APN/IMSI Filtering Skipped (No IMSI)

Type: number

Format: counter

gtp-v2-c-message-skipped-msisdn-filtering-no-msisdn

Description GTPv2-C MSISDN Filtering Skipped (No MSISDN)

Type: number

Format: counter

gtp-v2-c-mod_bearer-resp-unsuccess

Description GTPv2-C Modify Bearer Response Unsuccessful

Type: number

Format: counter

gtp-v2-c-packet-dummy-msisdn

Description GTPv0-C Packet With Dummy MSISDN Forwarded

Type: number

Format: counter

gtp-v2-c-piggyback-message

Description GTPv2-C Piggyback Messages

Type: number

Format: counter

gtp-v2-c-reserved-message-allow

Description GTPv2-C Reserved Message Allow

Type: number

Format: counter

gtp-v2-c-tunnel-closed

Description GTPv2-C Tunnel Marked Deleted

Type: number

Format: counter

gtp-v2-c-tunnel-created

Description GTPv2-C Tunnel Created

Type: number

Format: counter

gtp-v2-c-tunnel-deleted

Description GTPv2-C Tunnel Deleted

Type: number

Format: counter

gtp-v2-c-tunnel-deleted-restart

Description GTPv2-C Tunnel Deleted with Restart/failure

Type: number

Format: counter

gtp-v2-c-tunnel-half-closed

Description GTPv2-C Tunnel Delete Request

Type: number

Format: counter

gtp-v2-c-tunnel-half-open

Description GTPv2-C Half open tunnel created

Type: number

Format: counter

key-name

Description

Type: string

Format: counter

key-type

Description

Type: string

Format: counter

msisdn-flt-message-monitor

Description GTP-C Message forwarded via monitor mode at Msisdn filtering policy

Type: number

Format: counter

rat-flt-message-monitor

Description GTP-C Message forwarded via monitor mode at rat filtering policy

Type: number

Format: counter

rl-message-monitor

Description GTP Message forwarded via monitor mode at rate-limit policy

Type: number

Format: counter

u-downlink-bytes

Description Downlink Bytes

Type: number

Format: counter

u-downlink-pkts

Description GTP-U Downlink Packets

Type: number

Format: counter

u-uplink-bytes

Description Uplink Bytes

Type: number

Format: counter

u-uplink-pkts

Description Uplink Packets

Type: number

Format: counter

uplink-bytes

Description Uplink Bytes

Type: number

Format: counter

uplink-pkts

Description Uplink Packets

Type: number

Format: counter

vld-message-monitor

Description GTP Message forwarded via monitor mode at validation policy

Type: number

Format: counter

2.53.37 fw gtp stats

Statistics for the object gtp

gtp Specification

Parameter	Value
Type	*Configuration Resource*
Element Name	gtp
Element URI	/axapi/v3/fw/gtp/stats
Element Attributes	gtp_attributes
Partition Visibility	None
Schema	`gtp schema`

Operations Allowed:

Create Object

POST

/axapi/v3/fw/gtp/stats

gtp attributes

Get Object

GET

/axapi/v3/fw/gtp/stats

gtp attributes

Modify Object

POST

/axapi/v3/fw/gtp/stats

gtp attributes

Replace Object

PUT

/axapi/v3/fw/gtp/stats

gtp attributes

Delete Object

DELETE

/axapi/v3/fw/gtp/stats

gtp attributes

gtp attributes

apn-prefix

Description: apn-prefix is a **JSON Block**. Please see below for *apn-prefix*

Type: Object

Reference Object: */axapi/v3/fw/gtp/apn-prefix*

network-element

Description: network-element is a **JSON Block**. Please see below for *network-element*

Type: Object

Reference Object: /axapi/v3/fw/gtp/apn-prefix/network-element

stats

Description: stats is a **JSON Block**. Please see below for *stats*

Type: Object

stats

Specification	Value
Type	*object*

blade-gtp-c-smp-sig-check-failed

Description GTP-C SMP signature check Failed on PU2

Type: number

Format: counter

blade-gtp-info-ext-not-found

Description GTP-Info ext not found while freeing C-smp on PU2

Type: number

Format: counter

blade-gtp-rate-limit-entry-create-failure

Description GTP Rate Limit Entry Create Failure on PU2

Type: number

Format: counter

blade-gtp-rate-limit-smp-create-failure

Description GTP Rate Limit SMP Create Failure on PU2

Type: number

Format: counter

blade-gtp-rate-limit-t3-ctr-create-failure

Description GTP Rate Limit Dynamic Counters Create Failure on PU2

Type: number

Format: counter

blade-gtp-smp-c-check-failed

Description GTP-C SMP check Failed on PU2

Type: number

Format: counter

blade-gtp-smp-dec-sess-count-check-failed

Description GTP-U session count is 0 in GTP-C SMP on PU2

Type: number

Format: counter

blade-gtp-smp-path-check-failed

Description GTP SMP PATH check Failed on PU2

Type: number

Format: counter

blade-gtp-smp-session-count-check-failed

Description GTP-U session count is not in range of 0-11 in GTP-C SMP on PU2

Type: number

Format: counter

blade-gtp-smp-sig-check-failed

Description GTP SMP signature check Failed on PU2

Type: number

Format: counter

blade-gtp-u-smp-check-failed

Description GTP U-SMP check Failed on PU2

Type: number

Format: counter

blade-gtp-u-smp-sig-check-failed

Description GTP-U SMP signature check Failed on PU2

Type: number

Format: counter

blade-no-fwd-route

Description No Forward Route on PU2

Type: number

Format: counter

blade-no-rev-route

Description No Reverse Route on PU2

Type: number

Format: counter

blade-out-of-session-memory

Description Out of Tunnel Memory on PU2

Type: number

Format: counter

drop-gtp-bearer-not-found-in-resp

Description GTP Bearer not found in response

Type: number

Format: counter

drop-gtp-frag-or-jumbo-pkt

Description GTP Fragmented or JUMBO packet Drop

Type: number

Format: counter

drop-gtp-missing-cond-ie-bearer-ctx

Description Missing conditional IE in bearer context Drop

Type: number

Format: counter

drop-vld-gtp-echo-ie-len-exceed-msg-len

Description GTP Echo IE Length Exceeds Message Length

Type: number

Format: counter

drop-vld-gtp-echo-out-of-state-

Description GTP Echo Out of State Drop

Type: number

Format: counter

drop-vld-gtp-u-echo-out-of-state-

Description GTP-U Echo Out of State Drop

Type: number

Format: counter

gtp-c-conn-create-pkt-drop

Description GTP-C conn creation drop

Type: number

Format: counter

gtp-c-echo-path-failure

Description GTP-C Path Failure due to Echo

Type: number

Format: counter

gtp-c-fail-conn-create-slow

Description GTP-C packet failed creating L4-session in slowpath

Type: number

Format: counter

gtp-c-frag-or-jumbo-pkt-processed

Description GTP-C Fragmented or Jumbo packet processed

Type: number

Format: counter

gtp-c-frag-pkt-received

Description GTP-C Fragmented packet received

Type: number

Format: counter

gtp-c-handover-in-progress-with-conn

Description GTP-C mesg matching conn with HO In Progress

Type: number

Format: counter

gtp-c-handover-request-out-of-state-drop

Description GTP-C Handover Request Out of state Drop

Type: number

Format: counter

gtp-c-smp-sig-check-failed

Description GTP-C SMP signature check Failed

Type: number

Format: counter

gtp-create-session-request-retx-drop

Description GTP-C Retransmitted Create Session Request dropped

Type: number

Format: counter

gtp-echo-frag-or-jumbo-pkt-processed

Description GTP-Echo Fragmented or Jumbo packet processed

Type: number

Format: counter

gtp-echo-stateless-forward

Description GTP-echo Stateless Forward

Type: number

Format: counter

gtp-ext_hdr-incorrect-length

Description GTP Extension header incorrect length

Type: number

Format: counter

gtp-info-ext-not-found

Description GTP-Info ext not found while freeing C-smp

Type: number

Format: counter

gtp-monitor-forward

Description GTP messages forwarded via monitor mode

Type: number

Format: counter

gtp-node-restart-echo

Description GTP Node Restoration due to Recovery IE in Echo

Type: number

Format: counter

gtp-path-message-length-mismatch

Description GTP-Path Message Length Mismatch Across Layers

Type: number

Format: counter

gtp-pathm-fail-conn-create-slow

Description GTP path packet failed while creating L4-session in slowpath

Type: number

Format: counter

gtp-rate-limit-entry-create-failure

Description GTP Rate Limit Entry Create Failure

Type: number

Format: counter

gtp-rate-limit-smp-create-failure

Description GTP Rate Limit SMP Create Failure

Type: number

Format: counter

gtp-rate-limit-t3-ctr-create-failure

Description GTP Rate Limit Dynamic Counters Create Failure

Type: number

Format: counter

gtp-rr-message-drop

Description GTP Message Dropped in RR Mode

Type: number

Format: counter

gtp-smp-c-check-failed

Description GTP-C SMP check Failed

Type: number

Format: counter

gtp-smp-dec-sess-count-check-failed

Description GTP-U session count is 0 in GTP-C SMP

Type: number

Format: counter

gtp-smp-path-check-failed

Description GTP SMP PATH check Failed

Type: number

Format: counter

gtp-smp-sig-check-failed

Description GTP SMP signature check Failed

Type: number

Format: counter

gtp-stateless-forward

Description GTP Stateless Forward

Type: number

Format: counter

gtp-sync-tx-fw-drop-session-create

Description Conn Sync FW gtp Create Session Sent dropped

Type: number

Format: counter

gtp-tunnel-rate-limit-entry-create-failure

Description GTP Tunnel Level Rate Limit Entry Create Failure

Type: number

Format: counter

gtp-u-downlink-egress-bytes

Description GTP-U Downlink Egress Bytes

Type: number

Format: counter

gtp-u-downlink-egress-packets

Description GTP-U Downlink Egress Packets

Type: number

Format: counter

gtp-u-downlink-ingress-bytes

Description GTP-U Downlink Ingress Bytes

Type: number

Format: counter

gtp-u-downlink-ingress-packets

Description GTP-U Downlink Ingress Packets

Type: number

Format: counter

gtp-u-fail-conn-create-slow

Description GTP-U packet failed while creating L4-session in slowpath

Type: number

Format: counter

gtp-u-frag-pkt-processed

Description GTP-U Fragmented packet processed

Type: number

Format: counter

gtp-u-frag-pkt-received

Description GTP-U Fragmented packet received

Type: number

Format: counter

gtp-u-message-length-mismatch

Description GTP-U Message Length Mismatch Across Layers

Type: number

Format: counter

gtp-u-monitor-forward

Description GTP-U messages forwarded via monitor mode

Type: number

Format: counter

gtp-u-out-of-state-drop